

**ENVIRONMENTAL ASSESSMENT/PCB  
REMEDICATION REPORT**

**Prepared for:**

General Services Administration  
1500 E. Bannister Road  
Room 2101  
Kansas City, Missouri 64131-3088

**Prepared by:**

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## SECTION 1

### INTRODUCTION

At the request of the U.S. General Services Administration (GSA), SCS Engineers (SCS) performed an Environmental Assessment (Assessment)/PCB Remediation (Remediation) related to the former activities at the Hardesty Federal Center, 601-607 Hardesty in Kansas City, Missouri (Property). This report summarizes the results of the Environmental Assessment and details subsequent PCB remediation activities conducted by SCS in September and October 2003.

#### PURPOSE

The purpose of the Assessment was to identify any environmental issues that might affect the Property associated with the Hardesty Federal Center's past operations. The Assessment and PCB remediation was completed consistent with EPA guidance for conducting hazardous waste characterizations.

#### SITE DESCRIPTION AND HISTORICAL USE

The Hardesty Federal Center is currently comprised of seven federal buildings and associated parking areas. The U.S. Government acquired the site in 1940 and constructed 20 buildings with parking areas that occupied approximately 18 acres of land. Thirteen of the original 20 buildings constructed at the facility have been abandoned and demolished. Railway tracks, Hardesty Street, and Independence Avenue border the site.

The site was developed for use as a supply depot to support military operations. During World War II, the facility housed a Chemical Warfare Service Clothing Renovation Facility and served as the distribution center for personal effects of soldiers killed in action. After World War II, depot functions declined and the property served as a federal records facility and housed operations associated with the DMA, Federal Aviation Association, Army Corps of Engineers and the National Weather Service.

Early in 2003, SCS Engineers (SCS) performed a Waste Characterization Assessment of the former DMA facilities. Sample analytical results associated with the Waste Characterization identified environmental issues not previously discovered during former Assessment activities. In March - July 2003, SCS performed an Environmental Site Investigation (ESI) of the former Hardesty facilities. The ESI identified several areas of environmental concern. These included:

- Oil filled high voltage electrical supply cable. Electrical power is provided to the complex through an oil filled high voltage (13,800 kv) cable system. The use of oil filled cable, switches and transformers at the facility had created several small oil spills containing PCBs within the complex.

- PCB oil containing light ballasts. Several hundred PCB containing ballasts were removed by Hardesty personnel and were stored in Building 11. Suspected PCB containing light ballasts remain in use throughout the facility. In excess of one hundred of these ballasts were visually identified as leaking.
- Miscellaneous wastes identified throughout the facility. Containers ranging in size from one quart to approximately 20 gallons were left behind by former operations of the facility. In most instances, the containers were found to be less than full with a wide variety of contents. These included dielectric oil, paint, solvent, sodium hydroxide, and acid.

This assessment focused on Buildings 3, 3A, 6, 7, 9, 10 and 11. Remediation activities were conducted in Buildings 3, 6, 7, 9, 10, and 11.

## SECTION 2

### SCOPE OF WORK

#### ASSESSMENT

SCS proposed (July, 2003) to perform an Environmental Assessment/PCB Remediation of the subject property. The scope of work included additional assessment activities focused on defining spill areas and their hazard. Additional sampling was completed to define and document PCB spill areas. Several spill areas were identified including the primary spill in Building 11; electrical system related oil spills in Building 10 transformer vault; a leaking high voltage oil filled cable pull box in Building 9; and oil spills in the transformer vault on the first floor and high voltage switch area located in the basement of Building 3.

Numerous PCB oil containing light ballasts were identified in light fixtures throughout the facility. PCB oil containing light fixtures and ballasts were also found stockpiled in various locations on the first floor of Building 11. SCS performed an assessment of the fixtures that included identifying the total number of fixtures in use at the facility, and visually identifying the total number of fixtures containing ballasts that had leaked or were currently leaking.

#### PRE-REMEDICATION SAMPLING

Prior to the start of field operations a Project Work Plan was prepared describing the sampling activities that would be completed during the assessment and the remediation activities that would take place associated with the spill areas. The work plan identified proposed sampling locations, types of samples, and the laboratory analyses that were performed. Sampling of spill areas and transformers occurred in March and April, 2003. Analytical data was reviewed, separated and placed in tables for each specific building. Copies of these tables can be found in Appendix A. Laboratory analytical data sheets and chain-of-custody documentation can be found in Appendix B.

#### POST-REMEDICATION SAMPLING

Following remediation activities wipe samples and concrete core samples were collected from cleaned areas. Upon extraction from the sample locations, samples were immediately stored in clean laboratory-supplied containers for analysis. Once capped and sealed with a Teflon-lined lid, sample jars were placed on ice in a cooler and submitted under a chain-of-custody to Severn-Trent Laboratories in University Park, Illinois.

The Missouri Department of Natural Resources (MDNR) established site specific target levels for PCB contamination associated with this site. A concentration of 10 mg/kg (solid) or lower and 10 ug/wipe or lower was considered by MDNR to be an acceptable level. A total of seven post-remediation wipe samples and four concrete core samples were collected. According to analytical data two of the areas sampled required additional work. An electrical ballast oil spill

located on the second floor of Building 11 contained 35 ug/wipe and an electrical ballast oil spill located on the first floor of Building 11 contained 33 ug/wipe. Additional cleaning and remediation activities were performed in these areas and subsequent resampling and analysis indicated the areas were sufficiently cleaned. Analytical data was reviewed, separated and placed in tables for each specific building. Copies of these tables can be found in Appendix A. Laboratory analytical data sheets and chain-of-custody documentation can be found in Appendix B.

## **REMEDIATION**

Based on the analytical data obtained from various sampling events, and conditions visually identified throughout the facility, a Remedial Plan was developed. The Remedial Plan detailed specific tasks to be completed throughout the complex. All spill areas were cleaned by the remediation contractor using various solvent solutions produced by Zep Manufacturing. These products included Big Orange-citrus industrial degreaser, Power Solu-5000 solvent degreaser and a driveway concrete and masonry cleaner. Following application of the solvents, disposable spill pads were used to wipe surfaces clean of applied solvents and oil spills. Contaminated waste derived during remediation activities was placed in approved DOT containers for transport to the appropriate disposal facility. Disposal of PCB contaminated spill pads, impacted building materials and containers of dielectric oil was provided by US Ecology (American Ecology Corporation). Palletized light fixtures and a drum of light ballasts were disposed of by A-Tec Recycling. Containers of paint, sulfuric acid, sodium hydroxide and non-regulated material including a steel tank were disposed by Solvent Recovery Corporation. Copies of disposal manifests can be found in Appendix C.

## **PROJECT ACTIVITIES**

### **Building 3**

Based on pre-remediation sample results, several areas within the building contained oil spills with elevated levels of PCBs. These included an electrical equipment brace and floor area in the transformer vault room on the first floor (200 ug/wipe), a floor area (approximately 10 feet wide by 30 feet long) below a high voltage electrical switch/duct in the basement (14 ug/wipe), and a plywood cabinet saturated with PCB containing oil also in the basement (150 ug/wipe).

Electrical service to the building was terminated in the transformer vault room. This was necessary for the remediation contractor to safely gain access to the impacted areas within the vault room. The remediation contractor constructed the necessary containment and provided proper personal protective equipment (PPE) as described in the site specific health and safety plan (HASp). Solvent and spill pads were used to lift and remove oils from the floor and electrical brace in the transformer vault room.

The impacted areas of the plywood cabinet were dismantled and placed in steel drums. Following remediation of the plywood cabinet, the floor slab in the area where the cabinet was located was cleaned with solvent and thoroughly wiped with spill pads. The floor slab below the

electrical switch/duct was swept to remove all loose material that had been deposited from overhead equipment. Solvent and spill pads were used to lift and remove all remaining material from the slab. All material removed from the floor slab and disposable spill pads utilized for cleaning the slab areas were containerized in drums and were transported off-site under manifest for proper disposal.

Post-remediation wipe samples and concrete samples were collected from the cleaned areas. This included collecting a core sample from the floor slab located directly below the high voltage electrical switch/duct and the floor slab area where the plywood cabinet was located. All core samples collected extended from the surface of the floor slab to a point approximately 3 inches into the slab. A post-remediation wipe sample was collected from the cleaned floor area below the electrical equipment brace in the first floor electrical vault and also from cleaned floor below the electrical switch/duct located in the basement. This included thoroughly wiping a 10 cm by 10 cm square area with a laboratory provided sample cloth saturated with hexane. PCB analysis of wipe samples collected from the basement floor below the electrical switch/duct and from the floor in the transformer vault were below laboratory detection limits. Analysis of concrete core samples collected from the basement floor slab below the electrical switch/duct and from the basement floor slab area where the plywood cabinet was located indicated PCB concentrations of 49 ug/kg and 81 ug/kg, respectively.

Containers of dielectric oil, paint, solvent and acid were also identified and collected in Building 3. The containers ranged in size from one quart to 5 gallons and all were found to be partially full. The containers were placed in steel drums, labeled and transported off-site under manifest for proper disposal. A larger steel tank (approximately 40 gallons in volume) with an open top was also identified in the lower level of the building. The tank was approximately  $\frac{3}{4}$  full of material believed to be associated with the water treatment system. This tank was removed with the contents in-place and was packed in a shipping container, labeled and transported off-site under manifest for proper disposal.

A total of 5 light fixtures with leaking ballasts were identified in Building 3. All fixtures identified were not in operation and were found lying on the floor surface. The remediation contractor provided proper PPE and all fixtures were removed from the building. The fixtures were stockpiled on and were covered with plastic to prohibit contaminant migration. All light bulbs were removed from the fixtures and were packed in cardboard boxes for shipment to a recycling facility. Shipment of the light fixtures was completed by palletizing stockpiled fixtures under containment conditions and loading them onto a delivery van/truck.

## **Building 6**

An oil spill was identified on an electrical conduit line below a breaker box on the first floor. PCB analysis of the spill indicated a concentration of 22 ug/wipe. The spill had not migrated to the floor slab and had only impacted the single conduit line. The remediation contractor constructed the necessary containment and provided proper personal (PPE). Solvent solutions, as described above, were utilized to lift PCB containing oils. Disposable absorbent spill pads were used to remove PCB oils and solvents. Following use all spill pads were containerized in

drums and were transported off-site under manifest for proper disposal. No leaking PCB containing light fixtures were identified in this building.

### **Building 7**

A total of 3 light fixtures with leaking PCB oil containing ballasts were identified. The electrical contractor disconnected power sources and the remediation contractor constructed the necessary containment and provided proper PPE. All fixtures were removed from the building and were stockpiled on and were covered with plastic to prohibit contaminant migration. All light bulbs were removed from the fixtures and were packed in cardboard boxes for shipment to a recycling facility. Shipment of the light fixtures was completed by palletizing stockpiled fixtures under containment conditions and loading them onto a delivery van/truck. No spills were observed in this building.

### **Building 9**

A pull box containing high voltage electrical cable was identified as having an oily PCB containing residue coating the exterior surfaces. The pull box was suspended from the ceiling and leakage was also observed on the floor tiles below. Analysis of wipe samples collected from the pull box and floor tiles below indicated PCB concentrations of 200 ug/wipe and 26 ug/wipe, respectively. The electrical contractor verified the pull box did not have an electrical charge and the remediation contractor used solvent and spill pads to clean the oil from the surface of the pull box. The floor tiles (approximately 6) located below the pull box were also cleaned with solvent and spill pads.

A post-remediation wipe sample was collected from the cleaned floor tiles below the electrical pull box. This included wiping a 10 cm by 10 cm square area with a laboratory provided sample cloth saturated with hexane. Sample results indicated that PCB concentrations were below laboratory detection limits.

A total of 56 light fixtures with leaking ballasts were identified in Building 9. The electrical contractor disconnected power sources at junction boxes and the remediation contractor constructed the necessary containment and provided proper PPE. All fixtures were removed from the building and were stockpiled on and were covered with plastic to prohibit contaminant migration. All light bulbs were removed from the fixtures and were packed in cardboard boxes for shipment to a recycling facility. Shipment of the light fixtures was completed by palletizing stockpiled fixtures under containment conditions and loading them onto a delivery van/truck.

### **Building 10**

A high voltage oil pot was identified as having a small oil spill impacting the sides of the pot, an associated mounting/support beam, and the floor below. The oil pot was located inside the transformer vault in the basement of Building 10. The oil pot was suspended approximately five feet above floor level and was located in a confined rear corner of the vault room. Analysis of a wipe sample collected from the supporting beam indicated PCB concentrations of 86 ug/wipe.

Also located inside the vault room were 3-150 kv transformers, related switch gear, and all exposed electrical wiring and electrical conducting copper busses. Due to the location of the spill area, all electrical equipment in the vault needed to be de-energized prior to accessing the oil pot and mounting/support bracket. However, high voltage power was delivered to the electrical vault and the entire complex of buildings from Building 13. Based on the logistics of de-energizing the entire complex and the size of the oil pot spill and area affected, it was determined that the area would not be cleaned.

Containers of dielectric oil and sodium hydroxide were also identified and collected in Building 10. Two metal containers of dielectric oil were found in the basement transformer vault room and a small steel drum containing sodium hydroxide was also found in the basement towards the south end of the building. The dielectric oil containers appeared to be 5 gallons in volume and the steel drum containing sodium hydroxide was approximately 20 gallons in volume. The containers were removed from the basement, placed in steel drums, labeled and transported off-site under manifest for proper disposal.

A total of 38 light fixtures with leaking ballasts were identified in Building 10. The electrical contractor disconnected power sources at junction boxes and the remediation contractor constructed the necessary containment and provided proper PPE. All fixtures were removed from the building and were stockpiled on and were covered with plastic to prohibit contaminant migration. All light bulbs were removed from the fixtures and were packed in cardboard boxes for shipment to a recycling facility. Shipment of the light fixtures was completed by palletizing stockpiled fixtures under containment conditions and loading them onto a delivery van/truck.

## **Building 11**

The main spill area was identified on the first floor of the building. A high voltage oil filled cable extending from electrical switch-gear located on the second floor to electrical switch-gear located in the basement had leaked. Spillage from the termination point within the second floor switch-gear had impacted the second floor concrete slab. Further migration of the oil along the high voltage cable resulted in spillage on first floor suspended ceiling tiles and framework, drywall, and floor tiles. Analysis of a wipe sample collected from the supporting beam indicated PCB concentrations of 2.2 ug/wipe. The high voltage electrical system in Building 11 was de-energized and the leaking high voltage cable was removed by the electrical contractor. The remediation contractor constructed the necessary containment and provided proper PPE. The cable (approximately 105 feet in length) was cut into sections measuring approximately three feet in length. Once cut, the cable was placed into steel drums and labeled for transport to a disposal facility. An oil pot located within the second floor switch gear was also identified as leaking and was removed. Following removal of the cable and oil pot the remediation contractor dismantled and disposed of impacted sections of the suspended ceiling tiles and framework. Approximately 80 square feet of impacted drywall and a section of floor tile and mastic measuring 5 feet by 5 feet were also removed. Impacted building materials were immediately placed in steel drums and were labeled for transport to a disposal facility. The remediation contractor also cleaned the inside of the second floor switch-gear enclosure and the surface of the

concrete floor slab inside the enclosure. A hammer drill was used to remove impacted concrete from inside the hole where the high voltage cable passed from the first floor to the second floor.

Several small oil spills containing PCBs were noted throughout Building 11. A spill was identified on the floor tile below a leaking electrical ballast in the second floor mechanical room. Another ballast spill was observed to be leaking onto the floor slab towards the south end of the building on the first floor and an electrical transformer port was dripping onto the floor in the basement electrical room. The remediation contractor constructed the necessary containment and provided proper PPE. Solvent and spill pads were used to lift and remove oil that had spilled onto the floor below the ballast spills. Solvent and spill pads were also used to remove oil that had dripped onto the floor below the transformer port. The remediation contractor applied solvent and wiped the port clean of all oil that had accumulated on the exterior surfaces. The port was tightened in an effort to stop further release.

Post-remediation wipe samples and concrete samples were collected from the cleaned areas. This included collecting a core sample from the second floor slab where the high voltage cable passed to the first floor. A core sample was also collected from the first floor slab below the area where the impacted floor tiles and mastic had been removed. All core samples collected extended from the surface of the floor slab to a point approximately 3 inches into the slab. Following receipt of post-remediation laboratory analysis of the cores it was identified that the areas were cleaned per project requirements and the new high voltage electrical cable was installed. Post-remediation wipe samples were collected from the floor areas impacted by the ballast spills from the floor area impacted by the leaking transformer port. This included wiping a 10 cm by 10 cm square area with a laboratory provided sample cloth saturated with hexane. Sample results from the individual areas were: first floor core sample below the high voltage cable (below laboratory detection limits), second floor core sample below the electrical switch gear (below laboratory detection limits), first floor ballast spill (33 ug/wipe), first floor ballast spill retest (3.8 ug/wipe), second floor ballast (35 ug/wipe), second floor ballast spill retest (below laboratory detection limits), and basement floor transformer port spill (below laboratory detection limits).

As previously discussed in the Post-Remediation Sampling section, laboratory analytical results indicated the need for further cleaning associated with the ballast spill areas in Building 11. Further remediation was completed in both spill areas and an additional wipe sample was collected following the concentrated cleaning effort. Analysis of the wipe samples (labeled first floor ballast spill retest and second floor ballast spill retest) indicated the areas were sufficiently cleaned.

A total of 27 light fixtures with leaking ballasts were identified in Building 11. The electrical contractor disconnected power sources at junction boxes and the remediation contractor constructed the necessary containment and provided proper PPE. All fixtures were removed from the building and were stockpiled on and were covered with plastic to prohibit contaminant migration. All light bulbs were removed from the fixtures and were packed in cardboard boxes for shipment to a recycling facility. Shipment of the light fixtures was completed by palletizing stockpiled fixtures under containment conditions and loading them onto a delivery van/truck.



## **APPENDICES**

**APPENDIX A**

**ANALYTICAL TABLES PRE-REMEDICATION/POST-REMEDICATION**

**APPENDIX B**

**LABORATORY ANALYTICAL DATA SHEETS AND CHAIN-OF-CUSTODY  
DOCUMENTATION**

**APPENDIX C**

**HAZARDOUS WASTE DISPOSAL MANIFEST**

**APPENDIX D**  
**PHOTOGRAPHS**

General Services Administration  
Hardesty Federal Center  
601-607 Hardesty Dr.  
Kansas City, MO

BUILDING NO. 10 ANALYTICAL RESULTS

		AROCOLOR	1016	1221	1232	1242	1248	1254	1260
		METHOD	8082	8082	8082	8280	8280	8280	8280
SAMPLE I.D.	DATE	MATRIX / UNITS							
TRANSFORMER 1139	4/23/03	OIL ug/Kg	< 9600	< 9600	< 9600	< 9600	< 9600	< 9600	57000
TRANSFORMER 1139DUP	4/23/03	OIL ug/Kg	< 9600	< 9600	< 9600	< 9600	< 9600	< 9600	57000
TRANSFORMER 1140	4/23/03	OIL ug/Kg	< 990	< 990	< 990	< 990	< 990	< 990	4100
TRANSFORMER 1141	4/23/03	OIL ug/Kg	< 4800	< 4800	< 4800	< 4800	< 4800	< 4800	33000
B10 TRANSFORMER BEAM WIPE	4/23/03	WIPE ug/Kg	< 10	< 10	< 10	< 10	< 10	< 10	86
B10 TRANSFORMER ROOM CASING	6/17/03	WIPE ug/Kg	< 10	< 10	< 10	< 10	< 10	< 10	13
B10 F2 PUDDLE	4/23/03	WATER ug/Kg	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

		ANALYTE	DIESEL FUEL	MOTOR OIL			ANALYTE	MERCURY		
		METHOD	OA-2	OA-2			METHOD	7471A		
SAMPLE I.D.	DATE	MATRIX / UNITS								
B10 F2 PUDDLE	4/23/03	WATER mg/Kg	< 0.18	7.3			B10 BASEMENT SEDIMENT *	4/23/03	SED mg/kg	0.35

		ANALYTE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER
		METHOD	6010B	6010B	6010B	6010B	6010B	6010B	6010B
SAMPLE I.D.	DATE	MATRIX / UNITS							
B10 BASEMENT SEDIMENT	4/23/03	SED mg/Kg	2.1	110	5.6	95	300	2.6	< 0.95

		ANALYTE	BENZYL ALCOHOL	NAPHTHALENE	HEXACHLOROXYCLOPENTADIENE	ACENAPH-THYLENE <sup>1</sup>	ACENAPHTHENE	DIBENZO-FURAN	FLOURENE
		METHOD	8270C	8270C	8270C	8270C	8270C	8270C	8270C
SAMPLE I.D.	DATE	MATRIX / UNITS							
B10 BASEMENT SEDIMENT *	4/23/03	SED ug/Kg	2000	4900	4200	200	2000	6200	5300

		ANALYTE	DIETHYL PHTHALATE <sup>1</sup>	PHENANTHRENE	ANTHRACENE	CARBAZOLE	DI-N-BUTYL PHTHALATE	FLORANTHENE	PYRENE
		METHOD	8270C	8270C	8270C	8270C	8270C	8270C	8270C
SAMPLE I.D.	DATE	MATRIX / UNITS							
B10 BASEMENT SEDIMENT *	4/23/03	SED ug/Kg	580	29000	9600	6500	6800	52000	32000

		ANALYTE	BUTYL BENZYL PHTHALATE	BENZO(A)ANTHRACENE	CHRYSENE	BIS (2-ETHYLHEXYL) PHTHALATE	BENZO(B)FLORANTHENE	BENZO(K)FLORANTHENE	BENZO(A)PYRENE
		METHOD	8270C	8270C	8270C	8270C	8270C	8270C	8270C
SAMPLE I.D.	DATE	MATRIX / UNITS							
B10 BASEMENT SEDIMENT *	4/23/03	SED ug/Kg	210000	24000	20000	5600	30000	52000	20000

		ANALYTE	INDENO(1,2,3-CD) PYRENE	DIBENZO(GHI)PERYLENE	BENZO(GHI)PERYLENE
		METHOD	8270C	8270C	8270C
SAMPLE I.D.	DATE	MATRIX / UNITS			
B10 BASEMENT SEDIMENT *	4/23/03	SED ug/Kg	12000	5700	12000

\* - NO OTHER SEMIVOLATILE ORGANICS DETECTED

<sup>1</sup> - ANALYTE ABOVE METHOD DETECTION LIMIT BUT BELOW REPORTING LIMIT

General Services Administration  
 Hardesty Federal Complex  
 601-607 Hardesty Drive  
 Kansas City, Missouri

Post Remediation Analytical Results

**BUILDING NO. 3**

		<b>AROCLOR</b>	1016	1221	1232	1242	1248	1254	1260
		<b>METHOD</b>	8082	8082	8082	8280	8280	8280	8280
<b>SAMPLE I.D.</b>	<b>DATE</b>	<b>MATRIX / UNITS</b>							
BASEMENT FLOOR (ELECT. SWITCH)	9/12/03	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
POLY TRANS. AND FLOOR	9/18/03	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<05.0	<0.50	<1.2
BASEMENT FLOOR (ELECT. SWITCH)	9/18/03	SOLID ug/Kg	<17	<17	<17	<17	<17	49	<17
BASEMENT FLOOR (BOX LOCATION)	9/18/03	SOLID ug/Kg	<17	<17	<17	<17	<17	81	<17
BASEMENT EQUIPMENT PAD	9/22/03	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

**BUILDING NO. 9**

		<b>AROCLOR</b>	1016	1221	1232	1242	1248	1254	1260
		<b>METHOD</b>	8082	8082	8082	8280	8280	8280	8280
<b>SAMPLE I.D.</b>	<b>DATE</b>	<b>MATRIX / UNITS</b>							
BASEMENT FLOOR (PULL BOX)	9/17/2003	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

**BUILDING NO. 11**

		<b>AROCLOR</b>	1016	1221	1232	1242	1248	1254	1260
		<b>METHOD</b>	8082	8082	8082	8280	8280	8280	8280
<b>SAMPLE I.D.</b>	<b>DATE</b>	<b>MATRIX / UNITS</b>							
BASEMENT FLOOR TRANS. SPILL	9/12/2003	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2ND FLOOR BALLAST SPILL	9/12/2003	WIPE ug/WIPE	<2.5	<2.5	<2.5	<2.5	21	<2.5	14
2ND FLOOR BELOW SWITCH BOX	9/17/2003	SOLID ug/Kg	<17	<17	<17	<17	<17	<17	<17
1ST FLOOR HV CABLE AREA	9/17/2003	SOLID ug/Kg	<17	<17	<17	<17	<17	<17	<17
2ND FLR. BALLAST SPILL RETEST	9/17/2003	WIPE ug/WIPE	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1ST FLOOR BALLAST SPILL	9/22/2003	WIPE ug/WIPE	<1.0	<1.0	<1.0	<1.0	14	14	5.2
1ST FLR. BALLAST SPILL RETEST	9/29/2003	WIPE ug/WIPE	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0

SEVERN TRENT LABORATORIES  
ANALYTICAL REPORT

JOB NUMBER: 220522

Prepared For:

SCS Engineers, Inc.  
10401 Holmes Road  
Suite 400  
Kansas City, MO 64131

Project: GSA - Hardesty Federal Center Photo Lab

Attention: David Brewer

Date: 09/17/2003

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Signature

Name: Eric A. Lang

Title: Project Manager

E-Mail: elang@stl-inc.com

---

Date

STL Chicago  
2417 Bond Street  
University Park, IL 60466

PHONE: (708) 534-5200

FAX.: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

S A M P L E I N F O R M A T I O N  
Date: 09/17/2003

Job Number.: 220522	Project Number.....: 20002955
Customer...: SCS Engineers, Inc.	Customer Project ID...: GSA - HARDESTY FEDER
Attn.....: David Brewer	Project Description....: GSA - Hardesty Federal Center Photo Lab

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220522-1	B11 BASEMENT FLOOR TRANS. SPILL	Wipe	09/12/2003	14:45	09/13/2003	11:40
220522-2	B11 2ND FLOOR BALLAST SPILL	Wipe	09/12/2003	15:05	09/13/2003	11:40
220522-3	B3 BASEMENT FLOOR ELECT. SWITCH	Wipe	09/12/2003	15:30	09/13/2003	11:40

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS												
Job Number: 220522								Date: 09/17/2003				
CUSTOMER: SCS Engineers, Inc.				PROJECT: GSA - HARDESTY FEDER				ATTN: David Brewer				
Customer Sample ID: B11 BASEMENT FLOOR TRANS. SPILL						Laboratory Sample ID: 220522-1						
Date Sampled.....: 09/12/2003						Date Received.....: 09/13/2003						
Time Sampled.....: 14:45						Time Received.....: 11:40						
Sample Matrix.....: Wipe												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1221, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1232, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1242, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1248, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1254, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk
	Aroclor 1260, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1213	mgjk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 220522								Date: 09/17/2003				
CUSTOMER: SCS Engineers, Inc.				PROJECT: GSA - HARDESTY FEDER				ATTN: David Brewer				
Customer Sample ID: B11 2ND FLOOR BALLAST SPILL						Laboratory Sample ID: 220522-2						
Date Sampled.....: 09/12/2003						Date Received.....: 09/13/2003						
Time Sampled.....: 15:05						Time Received.....: 11:40						
Sample Matrix.....: Wipe												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	2.5	U		2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1221, Wipe	2.5	U		2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1232, Wipe	2.5	U		2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1242, Wipe	2.5	U		2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1248, Wipe	21			2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1254, Wipe	2.5	U		2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk
	Aroclor 1260, Wipe	14			2.5	2.5	5.00000	ug/Wipe	95949		09/16/03 1246	mgjk

\* In Description = Dry Wgt.

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LABORATORY TEST RESULTS												
Job Number: 220522								Date: 09/17/2003				
CUSTOMER: SCS Engineers, Inc.				PROJECT: GSA - HARDESTY FEDER				ATTN: David Brewer				
Customer Sample ID: B3 BASEMENT FLOOR ELECT. SWITCH						Laboratory Sample ID: 220522-3						
Date Sampled.....: 09/12/2003						Date Received.....: 09/13/2003						
Time Sampled.....: 15:30						Time Received.....: 11:40						
Sample Matrix.....: Wipe												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1221, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1232, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1242, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1248, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1254, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk
	Aroclor 1260, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	95949		09/16/03 1319	mgjk

\* In Description = Dry Wgt.

L A B O R A T O R Y C H R O N I C L E

Job Number: 220522

Date: 09/17/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

Lab ID:	Client ID:	Date Recvd:	Sample Date:				
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION
220522-1	B11 BASEMENT FLOOR TRANS. SPIL	09/13/2003	09/12/2003				
3550B	Extraction Ultrasonic (PCBs)	1	95790			09/15/2003 1100	
8082	PCB Analysis	1	95949	95790		09/16/2003 1213	1.00000
220522-2	B11 2ND FLOOR BALLAST SPILL	09/13/2003	09/12/2003				
3550B	Extraction Ultrasonic (PCBs)	1	95790			09/15/2003 1100	
8082	PCB Analysis	1	95949	95790		09/16/2003 1246	5.00000
220522-3	B3 BASEMENT FLOOR ELECT. SWITC	09/13/2003	09/12/2003				
3550B	Extraction Ultrasonic (PCBs)	1	95790			09/15/2003 1100	
8082	PCB Analysis	1	95949	95790		09/16/2003 1319	1.00000

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/17/2003

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number AZ0603.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ^ ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- \* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- \* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- ^ EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/17/2003

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS Post Digestion Spike (GFAA Samples - See Note 1 below)  
 Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set  
 CAP Capillary Column CCB Continuing Calibration Blank  
 CCV Continuing Calibration Verification  
 CF Confirmation analysis of original  
 C1 Confirmation analysis of A1 or D1  
 C2 Confirmation analysis of A2 or D2  
 C3 Confirmation analysis of A3 or D3  
 CRA Low Level Standard Check - GFAA; Mercury  
 CRI Low Level Standard Check - ICP  
 CV Calibration Verification Standard  
 Dil Fac Dilution Factor - Secondary dilution analysis  
 D1 Dilution 1  
 D2 Dilution 2  
 D3 Dilution 3  
 DLFac Detection Limit Factor  
 DSH Distilled Standard - High Level  
 DSL Distilled Standard - Low Level  
 DSM Distilled Standard - Medium Level  
 EB1 Extraction Blank 1  
 EB2 Extraction Blank 2  
 EB3 DI Blank  
 ELC Method Extracted LCS  
 ELD Method Extracted LCD  
 ICAL Initial calibration  
 ICB Initial Calibration Blank  
 ICV Initial Calibration Verification  
 IDL Instrument Detection Limit  
 ISA Interference Check Sample A - ICAP  
 ISB Interference Check Sample B - ICAP  
 Job No. The first six digits of the sample ID which refers to a specific client, project and sample group  
 Lab ID An 8 number unique laboratory identification  
 LCD Laboratory Control Standard Duplicate  
 LCS Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest  
 MB Method Blank or (PB) Preparation Blank  
 MD Method Duplicate  
 MDL Method Detection Limit  
 MLE Medium Level Extraction Blank  
 MRL Method Reporting Limit Standard  
 MSA Method of Standard Additions  
 MS Matrix Spike  
 MSD Matrix Spike Duplicate  
 ND Not Detected  
 PREPF Preparation factor used by the Laboratory's Information Management System (LIMS)  
 PDS Post Digestion Spike (ICAP)  
 RA Re-analysis of original  
 A1 Re-analysis of D1  
 A2 Re-analysis of D2  
 A3 Re-analysis of D3  
 RD Re-extraction of dilution  
 RE Re-extraction of original  
 RC Re-extraction Confirmation  
 RL Reporting Limit  
 RPD Relative Percent Difference of duplicate (unrounded) analyses  
 RRF Relative Response Factor

Q U A L I T Y   A S S U R A N C E   M E T H O D S

R E F E R E N C E S   A N D   N O T E S

Report Date: 09/17/2003

RT            Retention Time  
RTW          Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number  
SCB          Seeded Control Blank  
SD            Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)  
UCB          Unseeded Control Blank  
SSV          Second Source Verification Standard  
SLCS         Solid Laboratory Control Standard(LCS)  
PHC          pH Calibration Check LCSP pH Laboratory Control Sample  
LCDP         pH Laboratory Control Sample Duplicate  
MDPH         pH Sample Duplicate  
MDFP         Flashpoint Sample Duplicate  
LCFP         Flashpoint LCS  
G1            Gelex Check Standard Range 0-1  
G2            Gelex Check Standard Range 1-10  
G3            Gelex Check Standard Range 10-100  
G4            Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

## SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 220650

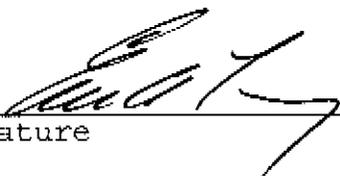
Prepared For:

SCS Engineers, Inc.  
10401 Holmes Road  
Suite 400  
Kansas City, MO 64131

Project: GSA - Hardesty Federal Center Photo Lab

Attention: David Brewer

Date: 09/25/2003

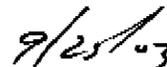


Signature

Name: Eric A. Lang

Title: Project Manager

E-Mail: elang@stl-inc.com



Date

STL Chicago  
2417 Bond Street  
University Park, IL 60466

PHONE: (708) 534-5200  
FAX..: (708) 534-5211

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**SAMPLE INFORMATION**  
Date: 09/25/2003

Job Number.: 220650	Project Number.....: 20002955
Customer...: SCS Engineers, Inc.	Customer Project ID....: GSA - HARDESTY FEDER
Attn.....: David Brewer	Project Description....: GSA - Hardesty Federal Center Photo Lab

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220650-1	B3 BASEMENT FLR. SWITCH AREA	Solid	09/17/2003	09:30	09/18/2003	14:30
220650-2	B3 BASEMENT FLR. CONCRETE AREA	Solid	09/17/2003	10:00	09/18/2003	14:30
220650-3	B11 2ND FLR. ELECT. SWITCH AREA	Solid	09/17/2003	11:30	09/18/2003	14:30
220650-4	B3 ELECT. VAULT FLOOR	Wipe	09/17/2003	13:00	09/18/2003	14:30
220650-5	B9 FLOOR BELOW PULL BOT	Wipe	09/17/2003	13:30	09/18/2003	14:30
220650-6	B11 1ST FLR. HV CABLE AREA	Solid	09/17/2003	14:00	09/18/2003	14:30
220650-7	B11 2ND FLR. BALLAST SPILL	Wipe	09/17/2003	15:00	09/18/2003	14:30

LABORATORY TEST RESULTS

Job Number: 220650

Date: 09/25/2003

CUSTOMER: SGS Engineers, Inc.

PROJECT: SSA - MARDESY FEDER

ATTN: David Brewer

Customer Sample ID: B3 BASEMENT FLR. SWITCH AREA  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 09:30  
 Sample Matrix.....: Solid

Laboratory Sample ID: 220650-1  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MOL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	% Solids Determination	94.5			0.10	0.10	1	%	96415		09/22/03 1145	crp
	% Moisture, Solid	5.5			0.10	0.10	1	%	96415		09/22/03 1145	crp
	PCB Analysis											
	Aroclor 1016, Solid	17	U		3.0	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1221, Solid	17	U		7.0	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1232, Solid	17	U		3.1	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1242, Solid	17	U		6.5	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1248, Solid	17	U		2.4	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1254, Solid	49	U		2.8	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk
	Aroclor 1260, Solid	17	U		2.6	17	1.00000	ug/Kg	96767		09/25/03 0012	mgk

Job Number: 220650

LABORATORY TEST RESULTS

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - MADDESTY FEDER

ATTN: David Brewer

Customer Sample ID: B5 BASEMENT FLR. CONCRETE AREA  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 10:00  
 Sample Matrix.....: Solid

Laboratory Sample ID: 220650-2  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8082	% Solids Determination	94.0			0.10	0.10	1	%	96415		09/22/03 1145	crp	
	% Moisture, Solid	6.0			0.10	0.10	1	%	96415		09/22/03 1145	crp	
8082	PCB Analysis												
	Aroclor 1016, Solid*	17			3.0	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
	Aroclor 1221, Solid*	17			6.9	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
	Aroclor 1232, Solid*	17			3.1	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
	Aroclor 1242, Solid*	17			6.5	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
	Aroclor 1248, Solid*	17			2.4	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
	Aroclor 1254, Solid*	81			2.8	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk	
Aroclor 1260, Solid*	17			2.6	17	1.00000	ug/Kg	96767		09/25/03 0045	mgk		

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 220650

Date: 09/25/2003

CUSTOMER: S&S Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

Customer Sample ID: B11 2ND FLR. ELECT. SWITCH AREA  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 11:30  
 Sample Matrix.....: Solid

Laboratory Sample ID: 220650-3  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	ML	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
8082	% Solids Determination	99.1			0.10	0.10	1	%	96415		09/22/03 1145	crp	
	% Moisture, Solid	0.90			0.10	0.10	1	%	96415		09/22/03 1145	crp	
	PCB Analysis												
	Aroclor 1016, Solid*	17	U		2.9	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk	
	Aroclor 1221, Solid*	17	U		6.7	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk	
	Aroclor 1232, Solid*	17	U		3.0	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk	
	Aroclor 1242, Solid*	17	U		6.3	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk	
Aroclor 1248, Solid*	17	U		2.3	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk		
Aroclor 1254, Solid*	17	U		2.7	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk		
Aroclor 1260, Solid*	17	U		2.5	17	1.00000	ug/Kg	96767		09/25/03 0118	mgk		

\* In Description = Dry Wgt.

Job Number: 220650

LABORATORY TEST RESULTS

Date: 09/25/2003

CUSTOMER: SGS Engineers, Inc.

PROJECT: SSA - MANDSELY FEDER

ATTN: David Brewer

Customer Sample ID: B3 ELECT. VAULT FLOOR  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 13:00  
 Sample Matrix.....: Wipe

Laboratory Sample ID: 220650-4  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	ROL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Arroclor 1016, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
	Arroclor 1221, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
	Arroclor 1232, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
	Arroclor 1242, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
	Arroclor 1248, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
	Arroclor 1254, Wipe	0.50	U		0.50	0.50	1.000000	ug/Wipe	96767		09/25/03 0947	mgk
Arroclor 1260, Wipe	1.2				0.50			96767		09/25/03 0947	mgk	

\* In Description = Dry Wgt.

Job Number: 220650

LABORATORY TEST RESULTS

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HANDSET FEDER

ATTN: David Brewer

Customer Sample ID: B9 FLOOR BELOW PULL BOT  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 13:30  
 Sample Matrix.....: Wipe

Laboratory Sample ID: 220650-5  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
	Aroclor 1221, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
	Aroclor 1232, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
	Aroclor 1242, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
	Aroclor 1248, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
	Aroclor 1254, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1019	mgk
Aroclor 1260, Wipe	0.50	U			0.50			96767		09/25/03 1019	mgk	

Job Number: 220650

LABORATORY TEST RESULTS

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: SSA - HARDESTY FEDER

ATTN: David Brewer

Customer Sample ID: B11 1ST FLR. HV CABLE AREA  
 Date Sampled: 09/17/2003  
 Time Sampled: 14:00  
 Sample Matrix: Solid

Laboratory Sample ID: 220650-6  
 Date Received: 09/18/2003  
 Time Received: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QI FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TEGH	
8082	% Solids Determination	99.2		0.10	0.10	1	%	96415		09/22/03 1145	crp	
	% Moisture, Solid	0.80		0.10	0.10	1	%	96415		09/22/03 1145	crp	
	PCB Analysis											
	ArcoIor 1016, Solid	17	U	2.9	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1221, Solid	17	U	6.6	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1232, Solid	17	U	3.0	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1242, Solid	17	U	6.2	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1248, Solid	17	U	2.3	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1254, Solid	17	U	2.7	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	
	ArcoIor 1260, Solid	17	U	2.5	17	1.00000	ug/Kg	96767		09/25/03 0150	mgk	

\* In Description = Dry Wgt.

Job Number: 220650

LABORATORY TEST RESULTS

Date: 09/25/2003

CUSTOMER: SGS Engineers, Inc.

PROJECT: GSA - MAJESTY FEDER

ATTN: David Brewer

Customer Sample ID: B11 2ND FLR. BALLAST SPILL  
 Date Sampled.....: 09/17/2003  
 Time Sampled.....: 15:00  
 Sample Matrix.....: Wipe

Laboratory Sample ID: 220650-7  
 Date Received.....: 09/18/2003  
 Time Received.....: 14:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1221, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1232, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1242, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1248, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1254, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk
	Aroclor 1260, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96767		09/25/03 1052	mgk

\* In Description = Dry Wgt.

## LABORATORY CHRONICLE

Job Number: 220650

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

Lab ID	Client ID	Date Recvd	Sample Date					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	DILUTION	
220650-1	B3 BASEMENT FLR. SWITCH AREA	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96369			09/21/2003	1600	
8082	PCB Analysis	1	96767	96369		09/25/2003	0012	1.00000
220650-2	B3 BASEMENT FLR. CONCRETE AREA	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96369			09/21/2003	1600	
8082	PCB Analysis	1	96767	96369		09/25/2003	0045	1.00000
220650-3	B11 2ND FLR. ELECT. SWITCH ARE	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96369			09/21/2003	1600	
8082	PCB Analysis	1	96767	96369		09/25/2003	0118	1.00000
220650-4	B3 ELECT. VAULT FLOOR	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96356			09/20/2003	0900	
8082	PCB Analysis	1	96767	96356		09/25/2003	0947	1.00000
220650-5	B9 FLOOR BELOW PULL BOT	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96356			09/20/2003	0900	
8082	PCB Analysis	1	96767	96356		09/25/2003	1019	1.00000
220650-6	B11 1ST FLR. HV CABLE AREA	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96369			09/21/2003	1600	
8082	PCB Analysis	1	96767	96369		09/25/2003	0150	1.00000
220650-7	B11 2ND FLR. BALLAST SPILL	09/18/2003	09/17/2003					
Method	% Solids Determination	1	96415			09/22/2003	1145	
3550B	Extraction Ultrasonic (PCBs)	1	96356			09/20/2003	0900	
8082	PCB Analysis	1	96767	96356		09/25/2003	1052	1.00000

STL Chicago is part of Severn Trent Laboratories, Inc.

SURROGATE RECOVERIES REPORT

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SES Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN: David Brewer

Method.....: PCB Analysis  
Method Code....: 8082

Test Matrix...: Wipe  
Batch(s).....: 96767

Prep Batch...: 96356

Lab ID	DT	Sample ID	Date	DCB	TCX
LCD			09/25/2003	93	89
LCS			09/25/2003	88	87
MB			09/25/2003	90	95
220650- 4		B3 ELECT. VAULT FLOOR	09/25/2003	55	96
220650- 5		B9 FLOOR BELOW PULL BOT	09/25/2003	53	97
220650- 7		B11 2ND FLR. BALLAST SPILL	09/25/2003	55	99

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	41 - 125
TCX	Tetrachloro-m-xylene (surr)	56 - 115

Method.....: PCB Analysis  
Method Code....: 8082

Test Matrix...: Solid  
Batch(s).....: 96767

Prep Batch...: 96369

Lab ID	DT	Sample ID	Date	DCB	TCX
LCD			09/24/2003	92	99
LCS			09/24/2003	87	89
MB			09/24/2003	86	93
220650- 1		B3 BASEMENT FLR. SWITCH AREA	09/25/2003	38	91
220650- 2		B3 BASEMENT FLR. CONCRETE AREA	09/25/2003	46	94
220650- 3		B11 2ND FLR. ELECT. SWITCH AREA	09/25/2003	44	81
220650- 6		B11 1ST FLR. HV CABLE AREA	09/25/2003	70	90

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	24 - 129
TCX	Tetrachloro-m-xylene (surr)	40 - 116

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082  
Method Description.: PCB Analysis

Equipment Code....: INST0708  
Batch.....: 96767

Analyst...: mgk

LCD	Laboratory Control Sample Duplicate	0031WLPCBA	96369 -003		09/24/2003	2340
-----	-------------------------------------	------------	------------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Solid	ug/Kg	163.643	150.170	166.700	16.700	U 98 9	% 63-106 R 30	
Aroclor 1260, Solid	ug/Kg	164.563	153.027	167.000	16.700	U 99 7	% 68-105 R 30	

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082  
Method Description.: PCB Analysis

Equipment Code....: INST0708  
Batch.....: 96767

Analyst....: mgk

LCD	Laboratory Control Sample Duplicate	0031WPCBA	96356-003		09/25/2003	0914
-----	-------------------------------------	-----------	-----------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	4.701700	4.669700	5.001000	0.500000	U 94 1	% 67-103 R 30	
Aroclor 1260, Wipe	ug/Wipe	4.826200	4.674600	5.010000	0.500000	U 96 3	% 65-109 R 30	

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082

Equipment Code....: INST0708

Analyst....: mgk

Method Description.: PCB Analysis

Batch.....: 96767

LCS	Laboratory Control Sample	0031WPCBA	96369 -002		09/24/2003	2307
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Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, Solid	ug/Kg	150.170		166.700	16.700	U 90	%	63-106	
Aroclor 1260, Solid	ug/Kg	153.027		167.000	16.700	U 92	%	68-105	

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082  
 Method Description.: PCB Analysis

Equipment Code....: INST0708  
 Batch.....: 96767

Analyst....: mgk

LCS	Laboratory Control Sample	0031WLPCBA	96356 +002		09/25/2003	0841
-----	---------------------------	------------	------------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	4.669700		5.001000	0.500000	U 93	% 67-103	
Aroclor 1260, Wipe	ug/Wipe	4.674600		5.010000	0.500000	U 93	% 65-109	

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082

Equipment Code.....: INST0708

Analyst...: mgk

Method Description.: PCB Analysis

Batch.....: 96767

MB	Method Blank		96369 -001		09/24/2003	2234
----	--------------	--	------------	--	------------	------

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Solid	ug/Kg	16.700	U					
Aroclor 1221, Solid	ug/Kg	16.700	U					
Aroclor 1232, Solid	ug/Kg	16.700	U					
Aroclor 1242, Solid	ug/Kg	16.700	U					
Aroclor 1248, Solid	ug/Kg	16.700	U					
Aroclor 1254, Solid	ug/Kg	16.700	U					
Aroclor 1260, Solid	ug/Kg	16.700	U					

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
---------	-------------	------------	--------	-----------------	------	------

Test Method.....: 8082

Equipment Code....: INST0708

Analyst...: mgk

Method Description.: PCB Analysis

Batch.....: 96767

MB	Method Blank		96356 -001		09/25/2003	0809
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Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	0.500000	U					
Aroclor 1221, Wipe	ug/Wipe	0.500000	U					
Aroclor 1232, Wipe	ug/Wipe	0.500000	U					
Aroclor 1242, Wipe	ug/Wipe	0.500000	U					
Aroclor 1248, Wipe	ug/Wipe	0.500000	U					
Aroclor 1254, Wipe	ug/Wipe	0.500000	U					
Aroclor 1260, Wipe	ug/Wipe	0.500000	U					

QUALITY CONTROL RESULTS

Job Number.: 220650

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

Test Method.....: Method

Batch.....: 96415

Analyst...: crp

Method Description.: % Solids Determination

Equipment Code.....:

Test Code.: %SOL10

Parameter.....: % Solids

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F	*	Limits	Date	Time
MB	96415-001		%	0.1000					H		09/22/2003	1145

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number AZ0603.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- \* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- \* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS Post Digestion Spike (GFAA Samples - See Note 1 below)  
 Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set  
 CAP Capillary Column CCB Continuing Calibration Blank  
 CCV Continuing Calibration Verification  
 CF Confirmation analysis of original  
 C1 Confirmation analysis of A1 or D1  
 C2 Confirmation analysis of A2 or D2  
 C3 Confirmation analysis of A3 or D3  
 CRA Low Level Standard Check - GFAA; Mercury  
 CRI Low Level Standard Check - ICP  
 CV Calibration Verification Standard  
 Dil Fac Dilution Factor - Secondary dilution analysis  
 D1 Dilution 1  
 D2 Dilution 2  
 D3 Dilution 3  
 DLFac Detection Limit Factor  
 DSH Distilled Standard - High Level  
 DSL Distilled Standard - Low Level  
 DSM Distilled Standard - Medium Level  
 EB1 Extraction Blank 1  
 EB2 Extraction Blank 2  
 EB3 DI Blank  
 ELC Method Extracted LCS  
 ELD Method Extracted LCD  
 ICAL Initial calibration  
 ICB Initial Calibration Blank  
 ICV Initial Calibration Verification  
 IDL Instrument Detection Limit  
 ISA Interference Check Sample A - ICAP  
 ISB Interference Check Sample B - ICAP  
 Job No. The first six digits of the sample ID which refers to a specific client, project and sample group  
 Lab ID An 8 number unique laboratory identification  
 LCD Laboratory Control Standard Duplicate  
 LCS Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest  
 MB Method Blank or (PB) Preparation Blank  
 MD Method Duplicate  
 MDL Method Detection Limit  
 MLE Medium Level Extraction Blank  
 MRL Method Reporting Limit Standard  
 MSA Method of Standard Additions  
 MS Matrix Spike  
 MSD Matrix Spike Duplicate  
 ND Not Detected  
 PREPF Preparation factor used by the Laboratory's Information Management System (LIMS)  
 PDS Post Digestion Spike (ICAP)  
 RA Re-analysis of original  
 A1 Re-analysis of D1  
 A2 Re-analysis of D2  
 A3 Re-analysis of D3  
 RD Re-extraction of dilution  
 RE Re-extraction of original  
 RC Re-extraction Confirmation  
 RL Reporting Limit  
 RPD Relative Percent Difference of duplicate (unrounded) analyses  
 RRF Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

RT Retention Time  
 RTW Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the Job number  
 SCB Seeded Control Blank  
 SD Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)  
 UCB Unseeded Control Blank  
 SSV Second Source Verification Standard  
 SLCS Solid Laboratory Control Standard(LCS)  
 PHC pH Calibration Check LCSP pH Laboratory Control Sample  
 LCDP pH Laboratory Control Sample Duplicate  
 MDPH pH Sample Duplicate  
 MDFF Flashpoint Sample Duplicate  
 LCFP Flashpoint LCS  
 G1 Gelex Check Standard Range 0-1  
 G2 Gelex Check Standard Range 1-10  
 G3 Gelex Check Standard Range 10-100  
 G4 Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

SEVERN  
TRENT

STL

STL Chicago

2417 Bond Street  
University Park, IL 60466  
Phone: 708-534-5200  
Fax: 708-534-5211

Report To:

Bill To:

Shaded Areas For Internal Use Only of

Contact: David Brewer  
Company: SCS Engineers  
Address: 10701 Holmes St Ste 100  
Laurel City, Mo 64151  
Phone: (816) 941-7510  
Fax: (816) 941-8025  
E-Mail: dbrewer@scsengineers.com

Contact: Andy Wheeler  
Company: (Same)  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
PO#: \_\_\_\_\_  
Quote: \_\_\_\_\_

Lab Lot# 220650  
Package Sealed  Yes  No Samples Sealed  Yes  No  
Repacked on ice  Yes  No Samples Intact  Yes  No  
Temperature  $\pm$  of Cooler 5.4

Sampler Name: Verret Doring Signature: David Brewer

Project Name: 65A Herbets Project Number: D22 000 70.17

Project Location: KL, MS Date Required: \_\_\_\_\_

Lab P#: Eric Long Hard Copy: \_\_\_\_\_ Fax: \_\_\_\_\_

Laboratory ID	Client Sample ID	Sampling Date	Matrix	Matrix		pH	Res Cl <sub>2</sub> Check	Res Cl <sub>2</sub> Check OK			
				Comp	Grab						
1	B3 Basement Fl. SWH Area	9/13/03	D	G	X						
2	B3 Basement Fl. Lobby Area	10/03	D	G	X						
3	B1 2nd Fl. Eld. SWH Area	11/30	D	G	X						
4	B3 Eld. Walk Floor	1/03	D	G	X						
5	B9 Floor below PAH box	1/30	D	G	X						
6	B1 1st Fl. HW Lobby Area	2/00	D	G	X						
7	B1 2nd Fl. Babcock Still	3/00	D	G	X						

REINQUISHED BY: David Brewer COMPANY: SCS DATE: 9/17/03 TIME: 5:00

RECEIVED BY: [Signature] COMPANY: STL DATE: 11/18/03 TIME: 12:30

Matrix Key

Container Key

Preservative Key

COMMENTS

Date Received 9/17/03

Hand Delivered

WW = Wastewater

W = Water

S = Soil

SL = Sludge

MS = Miscellaneous

OL = Oil

A = Air

SE = Sediment

SO = Solid

DS = Dyein Solid

DL = Dyein Liquid

L = Leachate

WI = Wipe

O = Concrete

1. Plastic

2. YOA Vial

3. Sterile Plastic

4. Amber Glass

5. Widemouth Glass

6. Other

1. HCl, Cool to 4 $\phi$

2. H2SO4, Cool to 4 $\phi$

3. HNO3, Cool to 4 $\phi$

4. NaOH, Cool to 4 $\phi$

5. NaOH/Zn, Cool to 4 $\phi$

6. Cool to 4 $\phi$

7. None

Courier: PA

Bill of Lading see attach

## SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 220747

Prepared For:

SCS Engineers, Inc.  
10401 Holmes Road  
Suite 400  
Kansas City, MO 64131

Project: GSA - Hardesty Federal Center Photo Lab

Attention: David Brewer

Date: 09/25/2003



Signature

Name: Eric A. Lang

Title: Project Manager

E-Mail: elang@stl-inc.com



Date

STL Chicago  
2417 Bond Street  
University Park, IL 60466

PHONE: (708) 534-5200  
FAX.: (708) 534-5211

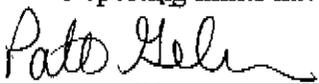
STL Chicago  
PCB Case Narrative

SCS Engineers, Inc.  
GSA – Hardesty Federal Center Photo Lab  
Job #: 220747-1 and 2  
PCBs

1. STL Chicago used the following Gas Chromatographic systems for the analysis of PCBs:

<u>ID#</u>	<u>INSTRUMENT</u>	<u>COLUMN TYPE</u>	<u>DETECTOR</u>
07	Varian 3400	Rtx-5 (Primary)	Electron Capture
08	Varian 3400	Rtx-Clp2 (Confirmation)	Electron Capture

2. These wipe samples were extracted based on SW846 method 3550. All extracts were analyzed for PCBs based on SW846 method 8082. All extracts received a sulfuric acid cleanup in order to reduce matrix interference.
3. All required holding times were met for the extraction and analysis.
4. The method blank was below the reporting limits for all Aroclors.
5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.
6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.
7. All blank spike and blank spike duplicate recoveries and RPDs were within statistical control limits.
8. A matrix spike and a matrix spike duplicate were not performed on this SDG.
9. All initial and continuing standard calibrations associated with these samples were in control on both columns. However, the CCV that ran 09/24/03 at 22:02 on the primary column (Rtx-5) had DCB with a slight retention time shift. This retention time shift was taken into account during data review.
10. Target compounds were confirmed using a second column.
11. Sample 220747-1 was analyzed at a 1/2 dilution due to level of target compounds detected. Reporting limits have been adjusted to reflect the necessary dilutions.

  
\_\_\_\_\_  
Patti Gibson  
Organics Section Manager

9/25/03  
\_\_\_\_\_  
Date

STL Chicago is part of Severn Trent Laboratories, Inc.

S A M P L E I N F O R M A T I O N  
Date: 09/25/2003

Job Number.: 220747	Project Number.....: 20002955
Customer...: SCS Engineers, Inc.	Customer Project ID....: GSA - HARDESTY FEDER
Attn.....: David Brewer	Project Description....: GSA - Hardesty Federal Center Photo Lab

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
220747-1	B11 1ST FLOOR BALLAST SPILL	Wipe	09/22/2003	15:30	09/23/2003	10:00
220747-2	B3 BASEMENT EQUIP PAD	Wipe	09/22/2003	16:00	09/23/2003	10:00

LABORATORY TEST RESULTS

Job Number: 220747

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc. PROJECT: GSA - HARDESTY FEDER ATTN: David Brewer

Customer Sample ID: 811 1ST FLOOR BALLAST SPILL  
 Date Sampled: 09/22/2003  
 Time Sampled: 15:30  
 Sample Matrix: Wipe

Laboratory Sample ID: 220747-1  
 Date Received: 09/23/2003  
 Time Received: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	1.0	U		1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
	Aroclor 1221, Wipe	1.0	U		1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
	Aroclor 1232, Wipe	1.0	U		1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
	Aroclor 1242, Wipe	1.0	U		1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
Aroclor 1248, Wipe	14				1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
Aroclor 1254, Wipe	14				1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk
Aroclor 1260, Wipe	5.2				1.0	1.0	2.00000	ug/Wipe	96766		09/24/03 2056	mgk

\* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 220747

Date: 09/25/2003

CUSTOMER: SIS Engineers, Inc.

PROJECT: GSA - HANDSEITZ FEDER

ATTN: David Brewer

Customer Sample ID: B3 BASEMENT EQUIP PAD  
 Date Sampled.....: 09/22/2003  
 Time Sampled.....: 16:00  
 Sample Matrix.....: Wipe

Laboratory Sample ID: 220747-2  
 Date Received.....: 09/23/2003  
 Time Received.....: 10:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	ROL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8082	PCB Analysis											
	Aroclor 1016, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
	Aroclor 1221, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
	Aroclor 1232, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
	Aroclor 1242, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
	Aroclor 1248, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
	Aroclor 1254, Wipe	0.50	U		0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk
Aroclor 1260, Wipe	0.50	U			0.50	0.50	1.00000	ug/Wipe	96766		09/24/03 2129	mgk

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LABORATORY CHRONICLE

Job Number: 220747

Date: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN: David Brewer

Lab ID:	Client ID:	Date Recvd:	Sample Date:					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	\$(S)	DATE/TIME ANALYZED	DILUTION	
3550B	Extraction Ultrasonic (PCBs)	1	96519			09/23/2003 1230		
8082	PCB Analysis	1	96766	96519		09/24/2003 2056	2.00000	
Lab ID: 220747-2	Client ID: B3 BASEMENT EQUIP PAD	Date Recvd: 09/23/2003	Sample Date: 09/22/2003					
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	\$(S)	DATE/TIME ANALYZED	DILUTION	
3550B	Extraction Ultrasonic (PCBs)	1	96519			09/23/2003 1230		
8082	PCB Analysis	1	96766	96519		09/24/2003 2129	1.00000	

STL Chicago is part of Severn Trent Laboratories, Inc.

Job Number.: 220747      SURROGATE RECOVERIES REPORT      Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.      PROJECT: GSA - HARDESTY FEDER      ATTN: David Brewer

Method.....: PCB Analysis      Test Matrix...: Wipe      Prep Batch...: 96519  
Method Code...: 8082      Batch(s).....: 96766

Lab ID	DT	Sample ID	Date	DCB	TCX
LCD			09/24/2003	85	84
LCS			09/24/2003	87	83
MB			09/24/2003	82	94
220747-	1	B11 1ST FLOOR BALLAST SPILL	09/24/2003	67	93
220747-	2	B3 BASEMENT EQUIP PAD	09/24/2003	43	96

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	41 - 125
TCX	Tetrachloro-m-xylene (surr)	56 - 115

Job Number.: 220747

QUALITY CONTROL RESULTS

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA - HARDESTY FEDER

ATTN: David Brewer

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8082

Equipment Code....: INST0708

Analyst....: mgk

Method Description.: PCB Analysis

Batch.....: 96766

LCD	Laboratory Control Sample Duplicate	0031WPCBA	96519-003		09/24/2003	2023
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Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	4.372600	4.439900	5.001000	0.500000	U 87 2	% 67-103 R 30	
Aroclor 1260, Wipe	ug/Wipe	4.339900	4.442800	5.010000	0.500000	U 87 2	% 65-109 R 30	

QUALITY CONTROL RESULTS

Job Number.: 220747

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8082  
Method Description.: PCB Analysis

Equipment Code....: INST0708  
Batch.....: 96766

Analyst....: mgk

LCS	Laboratory Control Sample	0031WLPCBA	96519-002	09/24/2003	1951
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Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	4.439900		5.001000	0.500000	U 89	% 67-103	
Aroclor 1260, Wipe	ug/Wipe	4.442800		5.010000	0.500000	U 89	% 65-109	

QUALITY CONTROL RESULTS

Job Number.: 220747

Report Date.: 09/25/2003

CUSTOMER: SCS Engineers, Inc.

PROJECT: GSA HARDESTY FEDER

ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: 8082  
Method Description.: PCB Analysis

Equipment Code....: INST0708  
Batch.....: 96766

Analyst...: mgk

MB	Method Blank		96519 -001		09/24/2003	1918
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Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	* Limits	F
Aroclor 1016, Wipe	ug/Wipe	0.500000	U					
Aroclor 1221, Wipe	ug/Wipe	0.500000	U					
Aroclor 1232, Wipe	ug/Wipe	0.500000	U					
Aroclor 1242, Wipe	ug/Wipe	0.500000	U					
Aroclor 1248, Wipe	ug/Wipe	0.500000	U					
Aroclor 1254, Wipe	ug/Wipe	0.500000	U					
Aroclor 1260, Wipe	ug/Wipe	0.500000	U					

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number AZ0603.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- \* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- \* LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS Post Digestion Spike (GFAA Samples - See Note 1 below)  
 Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set  
 CAP Capillary Column CCB Continuing Calibration Blank  
 CCV Continuing Calibration Verification  
 CF Confirmation analysis of original  
 C1 Confirmation analysis of A1 or D1  
 C2 Confirmation analysis of A2 or D2  
 C3 Confirmation analysis of A3 or D3  
 CRA Low Level Standard Check - GFAA; Mercury  
 CRI Low Level Standard Check - ICP  
 CV Calibration Verification Standard  
 Dil Fac Dilution Factor - Secondary dilution analysis  
 D1 Dilution 1  
 D2 Dilution 2  
 D3 Dilution 3  
 DLFac Detection Limit Factor  
 DSH Distilled Standard - High Level  
 DSL Distilled Standard - Low Level  
 DSM Distilled Standard - Medium Level  
 EB1 Extraction Blank 1  
 EB2 Extraction Blank 2  
 EB3 DI Blank  
 ELC Method Extracted LCS  
 ELD Method Extracted LCD  
 ICAL Initial calibration  
 ICB Initial Calibration Blank  
 ICV Initial Calibration Verification  
 IDL Instrument Detection Limit  
 ISA Interference Check Sample A - ICAP  
 ISB Interference Check Sample B - ICAP  
 Job No. The first six digits of the sample ID which refers to a specific client, project and sample group  
 Lab ID An 8 number unique laboratory identification  
 LCD Laboratory Control Standard Duplicate  
 LCS Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest  
 MB Method Blank or (PB) Preparation Blank  
 MD Method Duplicate  
 MDL Method Detection Limit  
 MLE Medium Level Extraction Blank  
 MRL Method Reporting Limit Standard  
 MSA Method of Standard Additions  
 MS Matrix Spike  
 MSD Matrix Spike Duplicate  
 ND Not Detected  
 PREPF Preparation factor used by the Laboratory's Information Management System (LIMS)  
 PDS Post Digestion Spike (ICAP)  
 RA Re-analysis of original  
 A1 Re-analysis of D1  
 A2 Re-analysis of D2  
 A3 Re-analysis of D3  
 RD Re-extraction of dilution  
 RE Re-extraction of original  
 RC Re-extraction Confirmation  
 RL Reporting Limit  
 RPD Relative Percent Difference of duplicate (unrounded) analyses  
 RRF Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 09/25/2003

RT Retention Time  
RTW Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number  
SCB Seeded Control Blank  
SD Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)  
UCB Unseeded Control Blank  
SSV Second Source Verification Standard  
SLCS Solid Laboratory Control Standard(LCS)  
PHC pH Calibration Check LCSP pH Laboratory Control Sample  
LCDP pH Laboratory Control Sample Duplicate  
MDPH pH Sample Duplicate  
MDFP Flashpoint Sample Duplicate  
LCFP Flashpoint LCS  
G1 Gelex Check Standard Range 0-1  
G2 Gelex Check Standard Range 1-10  
G3 Gelex Check Standard Range 10-100  
G4 Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.





Photograph 1. Building 3, basement, plywood storage box impacted with PCB containing oil.



Photograph 2. Building 3, basement, open storage tank.



Photograph 3. Building 3, 1st floor, poly transformer oil spill.



Photograph 4. Building 3, 1st floor, poly transformer.



Photograph 5. Building 10, basement transformer room that contains 3 transformers.



Photograph 6. Building 9, basement, high voltage, pull box.



Photograph 7. Building 11, transformer port and containment basin.



Photograph 8. Building 11, 1st floor, electrical ballast spill.



Photograph 9. Building 11, 1st floor, high voltage cable spill.



Photograph 10. Building 11, 2nd floor, chiller room transformer containment basin.



Photograph 11. Building 3, basement, cleaning floor slab below high voltage switch/duct.



Photograph 12. Building 3, basement, collecting concrete core sample for PCB analysis.



Photograph 13. Building 9, basement, removing fixtures with leaking electrical and ballasts.



Photograph 14. Building 11, basement, transformer park and containment area following remediation



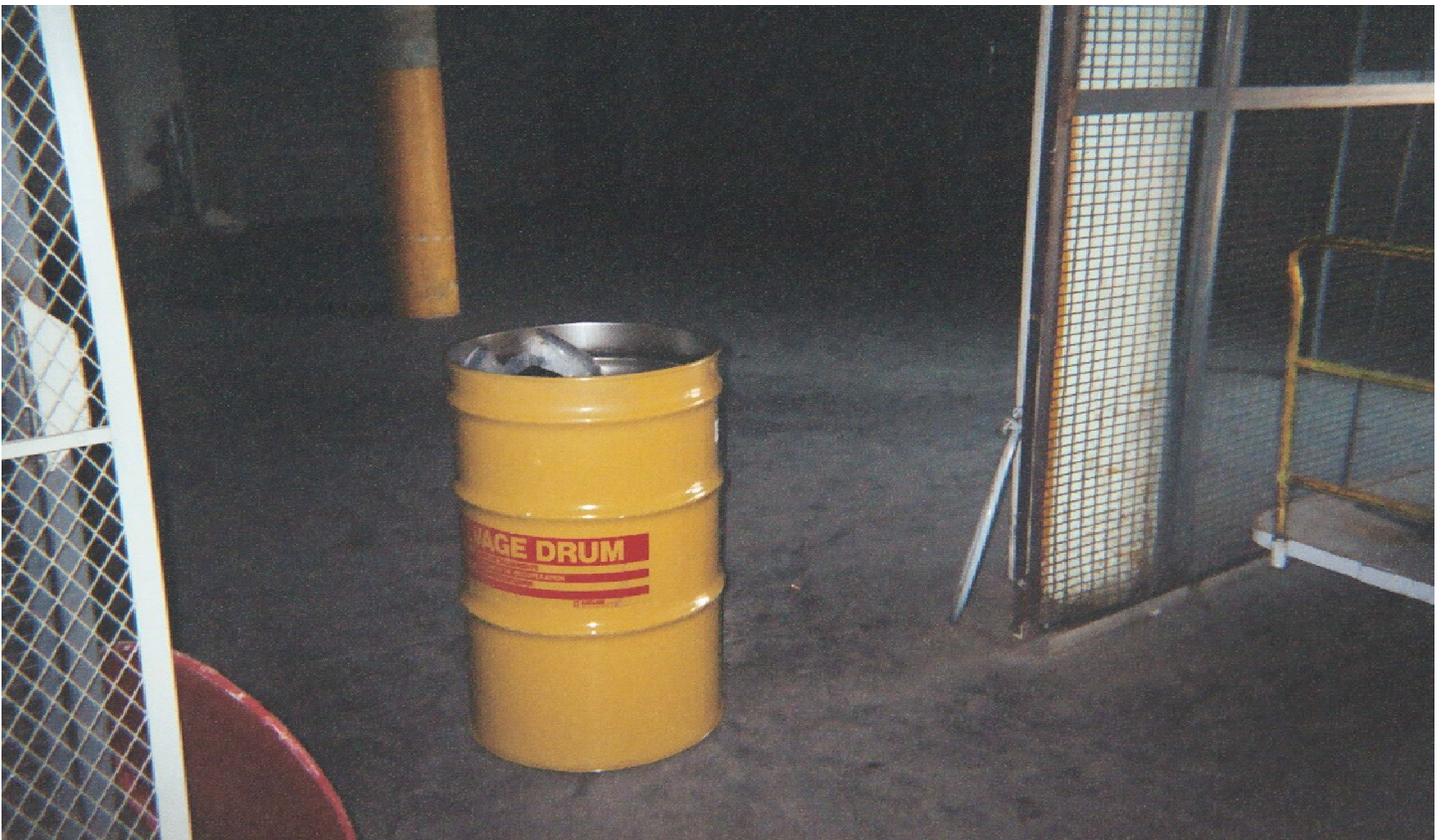
Photograph 15. Building 11, 1st floor, ballast spill.



Photograph 16. Building 11, 1st floor, removing PCB impacted building materials.



Photograph 17. Building 11, 2nd floor, removing PCB impacted concrete for disposal.



Photograph 18. Building 11, 1st floor, 85-gallon drum with electrical equipment containing PCBs.



Photograph 19. Building 11, 1st floor, 4 and 8 fluorescent lamps to be recycled.



Photograph 20. Building 11, 1st floor, drums and fixtures stockpiled for disposal.