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**REMOVAL PROGRAM  
AFTER ACTION REPORT  
FOR THE  
BIRCH SWAMP ROAD SITE  
WARREN, BRISTOL COUNTY, RHODE ISLAND  
5 AUGUST 2008 THROUGH 15 DECEMBER 2008**

Prepared For:

U.S. Environmental Protection Agency  
Region I  
Emergency Planning and Response Branch  
One Congress Street, Suite 1100  
Boston, Massachusetts 02114-2023

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Submitted By:

Weston Solutions, Inc.  
Superfund Technical Assessment and Response Team  
3 Riverside Drive  
Andover, Massachusetts 01810

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## 1.0 INTRODUCTION

The following report, entitled *Removal Program After Action Report for the Birch Swamp Road Site, Warren, Bristol County, Rhode Island, 5 August 2008 through 15 December 2008*, is a chronological summary of the response actions taken by the U.S. Environmental Protection Agency (EPA), Region I, Emergency Planning and Response Branch (EPRB). The report details the situation as it developed, actions taken, and resources committed.

Site activities included establishing the exclusion zone (EZ), contamination reduction zone (CRZ), and clean zone (CZ); relocating or removing non-hazardous debris to access work and equipment staging areas; conducting perimeter air monitoring; removing contaminated soils; installing erosion/siltation control devices; excavating soil; procuring laboratory services for sample analysis; performing a geophysical survey; documenting and photodocumenting site conditions; coordinating disposal of contaminated soil at EPA-approved facilities; performing site restoration; and demobilizing personnel and equipment.

## 2.0 SITE CONDITIONS AND BACKGROUND

### 2.1 Site Location and Description

The Birch Swamp Road site (the site) is located on Birch Swamp Road in the northern portion of the Town of Warren, Bristol County, Rhode Island. The geographical coordinates of the property are 41° 44' 43" north latitude and 71° 15' 31" west longitude [see Appendix A – Figures: Site Location Map (Figure 1)][1]. The site is identified as Lot Numbers (Nos.) 4 and 175 on Warren Tax Assessor's Map 22 [3]. The site consists of large wooded and wetland areas, with a concrete foundation in the center of the site, which was the location of a former icehouse. Land use in the surrounding area is comprised of a mixture of residential, agricultural, and industrial/commercial property, with single-family homes along Birch Swamp Road, Market Street, and adjoining side roads. The site is bordered to the west by Birch Swamp Road, to the north and south by residential properties, to the south by town-owned woods and wetlands, and to the east by the Kickemuit River.

The property west of Birch Swamp Road, across the street from the site, was the location of the former Warren Town Landfill, and is currently occupied by a transfer station and highway garages maintained by the Town of Warren Public Works and Highway Department. The Kickemuit River is approximately 0.25 miles east of the site and is a physical barrier to the rear of the site, but access is readily obtained from all other directions [See Appendix A – Figures: Aerial Site Map (Figure 2)][2].

A portion of the site was operated as an automotive salvage yard for an unknown period of time, and later as a military surplus salvage yard for an unknown period of time into the late 1980s. The site is adjacent to the former location of the Bristol Sandblasting (BSB) site. Spent sandblasting grit contaminated with lead was stored throughout the BSB property and at times mixed with on-site soil. This mixture of lead-contaminated sandblasting grit and on-site soil was eventually used as fill within two residential properties, as well as on a small portion of the Town of Warren property. For an undetermined period of time, most likely between February 1991 and August 1991, Halpin Line Construction Company, working on behalf of Narragansett Electric Company, utilized a portion of the BSB site, primarily to the rear of the garage building, to store electrical transformers.

## 2.2 Site History/Previous Actions

In October 1994, EPA and Roy F. Weston, Inc. (now known as Weston Solutions, Inc.) Technical Assistance Team (TAT) performed a Removal Program Preliminary Assessment/Site Investigation (PA/SI). The PA/SI confirmed the presence of elevated levels of lead and polychlorinated biphenyls (PCBs) in on-site soils. In May 1995, EPA began removal activities at the BSB site. A total of 8,580 tons of lead- and PCB-contaminated soil was sent off site for disposal at a licensed facility.

Since the removal action did not involve removal of surface soils with concentrations of lead below 500 parts per million (ppm), Rhode Island's Residential Direct Exposure Criteria (RI-R-DEC), Rhode Island Department of Environmental Management (RI DEM) initiated a PA/SI at the site. In June 2004, RI DEM and contractor personnel collected 10 soil/source and surface soil samples, seven sediment samples, and four drinking water samples from the BSB site and properties adjacent to the site.

Analytical results of soil/source samples indicated the presence of 15 semivolatile organic compounds (SVOCs), two PCB aroclors, three pesticides, and three inorganic elements above reference criteria. SVOCs detected in soil/source samples included benzo(a)anthracene [1,900 parts per billion (ppb)], benzo(b)fluoranthene (1,300 ppb), benzo(k)fluoranthene (1,400 ppb), and chrysene (1,900 ppb), all of which exceeded the RI-R-DEC. In addition, benzo(a)pyrene (1,300 ppb) exceeded the RI Industrial/Commercial Direct Exposure Criteria (RI-I/C-DEC). PCBs detected in soil/source samples included Aroclor 1254 (92 ppb) and Aroclor 1260 (45 ppb), neither of which exceeded the RI-R-DEC value of 10,000 ppb. Inorganic elements detected in soil/source samples included lead (130 ppm), mercury (0.20 ppm), and potassium (1,900 ppm), none of which exceeded the RI-R-DEC. Analytical results of sediment samples indicated the presence of nine SVOCs, three pesticides, two PCBs, and eight metals. SVOCs detected in sediment samples included benzo(a)anthracene (160 ppb), benzo(b)pyrene (180 ppb), benzo(b)fluoranthene (240 ppb), benzo(k)fluoranthene (230 ppb), butylbenzylphthalate (50 ppb), bis(2-ethylhexyl)phthalate (240 ppb), chrysene (240 ppb), fluoranthene (430 ppb), and pyrene (510 ppb). Pesticides detected in sediment samples included 4,4-DDE (12 ppb), 4,4-DDD (1.8 ppb), and 4,4-DDT (5.7 ppb). However, the presence of pesticides is attributable to normal use in the surrounding area and not to waste disposal practices at the BSB property. Therefore, the presence of these pesticides is not assumed to originate from the BSB property. PCBs detected in sediment samples collected from properties adjacent to the BSB property, along the banks of the Kickemuit River, included Aroclor 1254 (100 ppb) and Aroclor 1260 (39 ppb), and are associated with the storage of PCB transformers on the BSB property. Metals detected in sediment samples included antimony (2 ppm), arsenic (2.8 ppm), lead (460 ppm), mercury (0.51 ppm), vanadium (24 ppm), calcium (3,100 ppm), and selenium (0.51 ppm). Analytical results of drinking water samples indicated the presence of lead; however the concentrations detected did not exceed the RI Department of Health (DOH) Maximum Contaminant Level (MCL).

Due to the proximity of the Birch Swamp property to the Kickemuit River (which borders the site to the east) and concerns related to the water quality of the Kickemuit River, which is a public drinking water supply, RI DEM identified the Birch Swamp Road site as a potential source of the sediment contamination in the river. On 27 March 2006, RI DEM requested that the EPA EPRB provide assistance by investigating the Birch Swamp Road site.

In July 2007, EPA and START collected a total of 24 surface soil, eight subsurface soil, and three sediment samples for volatile organic compounds (VOC), SVOC, PCB, and metals analyses as part of a PA/SI. Analytical results indicated that 13 SVOCs, three PCB aroclors, and six metals were detected above laboratory detection limits in the surface soil samples. One VOC, methylene chloride, was detected above laboratory detection limits in the sediment samples, at a maximum concentration of 220 micrograms per kilogram ( $\mu\text{g}/\text{Kg}$ ) in sediment sample SD-03; however, methylene chloride did not exceed the RI-R-DEC in this sample. Six of the 13 SVOCs detected in soil samples exceeded the RI-R-DEC. The three PCBs detected in the surface soil samples included Aroclor-1248 (59 mg/Kg); Aroclor-1254 (36 mg/Kg); and Aroclor-1260 (0.64 mg/Kg), but only two of the three aroclors (1248 and 1254) exceeded the RI-R-DEC. Concentrations of metals exceeded RI-R-DEC in 19 surface soil samples and two subsurface soil samples, with the highest concentration of lead detected at 7,000 milligrams per kilogram (mg/Kg), exceeding the RI-R-DEC of 150 mg/kg [see Appendix A – Figures: Sample Location Map (Figure 3)].

During an April 2008 site visit, EPA and START collected a total of 34 surface soil and eight sediment samples for lead and PCB analyses, to further define the extent of contamination at the site [See Appendix A – Sample Location Map (Figure 3)]. Analytical results indicated that lead was detected above the laboratory detection limit in all the soil and sediment samples. In addition, lead was detected in sample SS-54 at 171 mg/Kg, which exceeds the RI-R-DEC. Sample SS-54, located near previous sample location SS-23 (which was near a drum carcass), was the only sample in which lead was found to exceed the RI-R-DEC. In addition, analytical results indicated that one PCB (Aroclor 1254) was detected in three of the sediment samples (SD-09, SD-10, and SD-11); however, none of these samples were found to contain PCBs at levels exceeding the RI-R-DEC. These sediment samples were located in an intermittent stream immediately south of the site.

### 3.0 SUMMARY OF FEDERAL RESPONSE ACTIONS

#### 3.1 Organization of the Response

ORGANIZATION OF THE RESPONSE		
Organization	Representatives	Responsibilities
U.S. Environmental Protection Agency (EPA) Emergency Planning and Response Branch (EPRB) One Congress Street, Suite 1100 Boston, MA 02114-2023 (617) 918-1298 (Morash) (617) 918-1279 (England)	Melanie Morash Brent England	EPA On-Scene Coordinators (OSC) responsible for the initiation, oversight, and completion of all removal activities. The OSCs coordinated with State and local officials.
Rhode Island Department of Environmental Management (DEM) 235 Promenade St. Providence, RI 02908-5767 (401) 222-4462	Joan Taylor	Rhode Island DEM was responsible for coordinating and monitoring removal efforts with the EPA OSC and local officials.
Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) 3 Riverside Drive Andover, MA 01810 (978) 522-2123	Bonnie Mace Dennis Willette	START Site Leaders that provided the OSC with technical assistance, sampling support, analytical support, site documentation, site health and safety monitoring, air monitoring, and draft and final report preparation.

ORGANIZATION OF THE RESPONSE		
Organization	Representatives	Responsibilities
Shaw Environmental & Infrastructure (Shaw) Emergency Rapid Response Services (ERRS) 88C Elm Street Hopkinton, MA 01748-1656 (508) 435-9561	John Kiley	Response Manager (RM) for the ERRS contractor that performed removal activities. The RM was responsible for oversight and organization of mobilization, demobilization, waste removal, and Administrative Cap construction activities.
	Gary Benham	ERRS transportation and disposal coordinator responsible for categorizing hazardous materials for disposal.
	Charlie Hutchinson	ERRS Unexploded Ordinance (UXO) representative that were responsible for monitoring test pitting activities for possible UXO.
RI Analytical Specialists in Environmental Services 41 Illinois Ave. Warwick, RI 02888 (401) 737-8500	Alfred J. Cabral	ERRS subcontractor that was responsible for fitting ERRS personnel with personal air monitoring units and analyzing the data that was collected.
American Waste 230 N. Maple Ave. Space B-1 Suite #312 Marlton, NJ 08053	Jason Miller	ERRS subcontractor that was responsible for removing all of the hazardous and non-hazardous soil from the site and transporting it to a licensed disposal facility.
Fleet Environmental Services LLC (Fleet) 500 Four Rod Road Berlin, CT 06037 (860) 828-5069	Jeff Magyar	ERRS subcontractor that was responsible for clearing the access road, installing silt fencing, and preparing the site for excavation activities.

### 3.2 Mobilization and Site Preparation

The site-specific removal health and safety plan (HASP) was reviewed and signed by all site personnel before any site work commenced. In addition, emergency telephone numbers and directions to the hospital were posted and site work zones were delineated. All site activities were performed in appropriate personal protective equipment (PPE) in accordance with the HASP. The site HASP was prepared by START personnel as a separate document, entitled *Health and Safety Plan for the Birch Swamp Road Site, Warren, Bristol County, Rhode Island*. On 25 August 2008 the mobilization and staging of ERRS equipment was initiated.

Site preparation activities conducted by ERRS personnel consisted of clearing and grubbing the work zone and command post areas, widening/improving the truck access road, and constructing a truck turnaround and staging area on the site.

### **3.3 Chronology of Removal Activities**

#### **Week Ending Friday, 8 August 2008**

On 5 August 2008, EPA On-Scene Coordinator (OSC) Melanie Morash, Shaw Environmental & Infrastructure (SHAW) Emergency Rapid Response Services (ERRS) Response Manager (RM) John Kiley, and START members Bonnie Mace, Bill Mahany, and Site Leader (SL) Dennis Willette mobilized to site. A safety meeting was held to discuss the HASP, which was subsequently signed by all personnel. For the duration of the removal action, daily safety meetings were held prior to the initiation of site activities. EPA conducted a site walkthrough with RM Kiley and START member Mace for the removal activities. START personnel conducted surface and sediment sampling activities to determine the extent of contamination on Lot No. 4.

EPA conducted a meeting with the Town of Warren Town Manager, Police Department, Fire Department, and DPW personnel; and RIDEM, ERRS, START, and EPA Public Affairs personnel to review site activities. In addition, EPA held a meeting with abutting property owners.

#### **Week Ending Friday, 22 August 2008**

On 18 August 2008, EPA OSC Morash and START SL Willette, members Bill Mahany and George Mavris mobilized to the site to conduct a geophysical survey. The survey took 2 days to complete, and data was collected using a Magnetometer and an EM-31. (See Birch Swamp Road Site File for full Geophysical Survey Memorandum and Analytical Results).

#### **Week Ending Friday, 29 August 2008**

On 25 August 2008, EPA OSC Morash and START SL Willette mobilized to the site to begin the removal action. In addition, SHAW RM Kiley, ERRS personnel Dan Sylvania, Bobby Moitoso, and Fleet personnel Jeff Magyar, Clarence Smith, and Dan Tate mobilized to the site. A front-end loader, water truck, and excavator were all delivered to the site by Hertz Rental. ERRS member Moitoso mobilized a Ryder Box Truck to the site to be used as the site trailer. Other deliveries included high-visibility orange fencing to set up exclusion zones, silt fencing, green wire fencing, 800 bales of hay, a chainsaw, a brush clearer, two portable toilets, a dumpster, and speed limit/animal crossing signs to be posted along the access roadway. ERRS personnel mobilized to the site with company-owned brush clearing equipment, including hand shears, clippers and weed-whackers.

All personnel participated in a health and safety meeting to discuss the HASP. Following the meeting, all personnel signed the HASP and participated in an initial site walk to determine where the site trailer was going to be set up and what areas of the site needed to be cleared of brush. Once a plan was determined, ERRS personnel began setting up the site and clearing brush along the access road.

On 29 August 2008, START SL Willette spoke with Robert Chace, owner of the surrounding property, about the potential presence of artillery shells and spent ammunition casings in the sample area located to the east of the foundation [see Appendix A – Figures: Excavation Map (Figure 4)].

### **Week Ending Friday, 5 September 2008**

On 3 September 2008, START SL Willette, ERRS personnel Dan Sylvia, and Bobby Moitoso; and Fleet personnel Jeff Magyar, James Silva Jr., and Frank Delgado mobilized to the site. ERRS began erosion and silt control (E&S) work, which consisted of establishing silt fencing along the roadway and wetland areas on site. START SL Willette delineated the limits of excavation using high-visibility orange fencing. Excavation grids were generally 10-foot by 10-foot grids, with the contaminated sample point as the center point. The location of the perimeter air sampling units was also established.

On 4 September 2008, ERRS personnel were fitted for personal air monitoring devices by RI Analytical, and START SL Willette collected perimeter air samples using a Personal DataRAM (pDR) devices and low-flow pumps. At the end of each sample day (4 September through 10 September), START SL Willette shipped the air sampling cassettes from the low-flow pumps for analyses. If after 5 days there were no elevated levels of air contaminants, the low-flow pumps would no longer be used. However, the PDR units were deployed every day for the remainder of the project to monitor levels of particulates in the air [see Appendix B – Tables: Perimeter Air Monitoring Results (Table 1)]. ERRS personnel began excavation work at Grids SS-18, -19, -9, and -10. Two ERRS members continued installing fencing material and cutting brush and trees from inside the foundation area.

As sample grids were excavated, START SL Willette collected five-point composite floor samples and perimeter samples to be analyzed for PCBs and lead by X-Ray Fluorescence (XRF) field screening. These samples were analyzed by the EPA New England Regional Laboratory's (NERL) Office of Environmental Measurement and Evaluation (OEME) or by EPA's mobile laboratory operated by EPA chemist Scott Clifford. Ten percent of the samples were collected for confirmation analyses at EPA OEME, including SVOC, PCB, and lead via inductively coupled plasma (ICP). [See Appendix B – Tables: Lead by Field XRF (Table 2); Polychlorinated Biphenyls in Soil Field Method (Table 3); Total Metals in Soil (Table 4); and Semivolatile Organic Compound Soil Analysis (Table 5)]. All sampling methods were approved by the site-specific Sampling and Analysis Plan (SAP). (See Birch Swamp Road Site File for complete SAP.)

### **Week Ending Friday, 12 September 2008**

On 8 September 2008, START SL Willette, Shaw RM John Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSC Frank Gardner provided site coverage for OSC Morash for the week. ERRS personnel cleared all the previously cut brush from inside the foundation area and began soil excavation at Grids SS-01, -02, -04, -03, -05, -03.5, -05.5, and -06. Grids SS-07 and -08 were used to stockpile the excavated soil. Grid SS-07 was used to stockpile lead-contaminated soil only; and grid SS-08 was used for soil contaminated with lead and PCBs. START SL Willette sampled the excavated grids and submitted the samples for analyses. SL Willette then used data from EPA OEME and the EPA Mobile Laboratory to determine what areas outside the foundation needed further excavation. Further excavation was necessary at any sample point with lead or PCB levels exceeding the Site's Action Limits as defined in the site-specific SAP. (See Birch Swamp Road Site File for complete SAP.)

### **Week Ending Friday, 19 September 2008**

On 15 September 2008, START SL Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to site. EPA chemist Scott Clifford mobilized to site with the EPA Mobile Laboratory to conduct field screening for PCBs and XRF screening for lead. EPA OSC Frank Gardner provided site coverage on Monday and Tuesday, with OSC Morash returning on Wednesday to be on site for the remainder of the week. ERRS personnel decontaminated the tires/tracks of the excavation equipment and brought it out of the foundation to proceed with excavation at grids SS-18, -19, -53, and -67. START SL Willette collected composite floor and perimeter samples from all areas once excavation was complete.

On Wednesday, 17 September 2008, Shaw unexploded ordinance (UXO) experts mobilized to the site to monitor the excavation of two test pits east of the foundation for UXO (See site file for Geophysical Survey results and test-pitting recommendations.) The information leading to this action was provided from abutting property owner Robert Chace, who was on site prior to the excavation to show where he thought UXO may be buried. Test-pitting activities yielded no UXO; and excavation continued at SS-14. OSC Morash requested that the roadway ranging from the western-most end of the foundation to SS-53 be sampled due to high levels of lead in the roadway adjacent to SS-14 [see Appendix A – Figures: Final Excavation Map (Figure 5)].

### **Week Ending Friday, 26 September 2008**

On 22 September 2008, START SL Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSCs Mia Pasquerella, Frank Gardner, and Brent England provided site coverage until Wednesday, with OSC Morash returning on Thursday. ERRS personnel created a stockpile of metal debris excavated from the area east of the foundation in Grid SS-06 (inside the foundation). Excavation outside the foundation continued at Grids SS-09, -67, -7579, -14, and Test-Pit 01 (TP-01). All grids were excavated down 6 inches (in.) from their original excavation depth of 6 in. Excavation would continue as stated until samples of the excavated areas were below Action Levels for lead and PCBs or until otherwise instructed by the OSC, as approved in the site-specific SAP.

On Friday, 26 September 2008, a generator was delivered and work was suspended early due to heavy rain.

### **Week Ending Friday, 3 October 2008**

On 29 September 2008, START SL Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSCs Frank Gardner, Brent England, and Melanie Morash shared site coverage for the week. EPA chemist Scott Clifford was on site with the EPA Mobile Laboratory. Excavation of the roadway began. The road was excavated from the eastern-most contaminated grid, SS-R1718, to an initial depth of 1 foot, and then excavation proceeded west down the access road to Grid SS-R00 [see Attachment A – Figures: Final Excavation Grid (Figure 5A)]. When initial excavation was complete, START SL Willette sampled the grids. Grids with levels of PCBs and lead greater than the Action Limit at 1 foot were excavated to 2 feet, sampled again, but would not be excavated any deeper per order of the EPA OSC. START SL Willette sampled around the perimeter of Grids SS-09, -14, and TP-01 to determine the extent of

contamination. A site trailer was delivered, and the staging area with the trailer and generator was moved to the area directly south of the foundation (west of SS-1112, and -13).

On Friday 3 October 2008, ERRS personnel continued excavating the areas around SS-09, -14, and TP-01, and began work in the area to the south of where the roadway was excavated (SS-R17/18 PS, -R15/16 PS, and -R11/12 PS). The nephew of the Potentially Responsible Party (PRP) and the benefactor of the property, Mr. Francis Zompa and Mr. Jim Thompson; met with OSC Morash, START SL Willette, and RM Kiley to discuss progress. SHAW environmental scientist Austin Magnant mobilized to site to determine if excavation had impacted the surrounding wetlands, and if so, what specific remedial actions were necessary.

#### **Week Ending Friday, 10 October 2008**

On 6 October 2008, START SL Dennis Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSCs Morash and England shared site coverage. ERRS personnel excavated grids SS-R 17/18 PS, -R15/16 PS, and -R11/12 PS to a depth of 1 foot. Samples were collected after initial excavation, and grids that were still above Action Levels for lead and PCBS were excavated to a final depth of 2 feet per order of the OSC. START SL Willette collected surface soil samples to the south of the previously mentioned grids to establish the extent of contamination. The Ryder box truck was removed from the site, and road base fill material was delivered to reconstruct the excavated roadway. In addition to roadway reconstruction, the staging area was expanded so that it could be used as a turn around area during load-out of contaminated soil.

#### **Week Ending Friday, 17 October 2008**

On 13 October 2008, START SL Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSCs England and Garnder shared site coverage. ERRS personnel continued to prepare the site for contaminated soil loadout. The access road reconstruction continued as ERRS personnel spread road-base material. Crushed stone was delivered to be used as a tire wash area for the first 200 feet of access road. Starting where the access road meets Birch Swamp Road, ERRS personnel spread the stone and used the front-end loader to smooth the roadway. Clean off-site topsoil was delivered and ERRS personnel began backfilling the excavated grids.

#### **Week Ending Friday, 24 October 2008**

On 20 October 2008, START SL Willette, Shaw RM Kiley, and ERRS personnel Dan Sylvia, Brian Shannon, and John Hudnall mobilized to the site. EPA OSC England provided site coverage for the week. ERRS personnel continued backfilling the excavated areas and spreading hay and seed over the topsoil and the original staging area. ERRS personnel conducted a final excavation outside the foundation at SS-23.

On 21 October 2008, site activity was suspended until further notice due to delays in the Transportation and Disposal (T&D) of contaminated soils. ERRS personnel covered up the piles and secured the site until site work continued.

### **Week Ending Friday, 31 October 2008**

There was no site activity this week.

### **Week Ending Friday, 7 November 2008**

On 4 November 2008, EPA OSC Morash, Shaw RM Kiley, ERRS personnel Dan Sylvia, Bobby Moitoso, and Fred Russell, and Jason Miller of American Waste mobilized to the site. Load-out of the hazardous (HAZ) material began. Hazardous materials were defined as contaminated soils with greater than 50 ppm of PCBs. All other contaminated soils were deemed Non-Hazardous (Non-HAZ). Six trucks of material are loaded out on Tuesday through Thursday with only three trucks loaded out on Friday. This material was transported to the Clean Earth facility in Kearny, NJ [see Appendix B – Tables: Waste Disposal Summary Table (Table 6)]. In the time between load-outs, ERRS personnel performed basic site maintenance.

### **Week Ending Friday, 14 November 2008**

There was no site activity this week.

### **Week Ending Friday, 21 November 2008**

On 17 November 2008, EPA OSC Melanie Morash, Shaw RM John Kiley, and ERRS personnel Dan Sylvia, Bobby Moitoso, and Fred Russell mobilized to the site. Load-out of the non-HAZ material began. Eight trucks of material were loaded out on Monday through Wednesday, with only four trucks being loaded out on Thursday and Friday. Two truck-loads of HAZ contaminated soil were loaded out this week: one on Wednesday, 19 November and the second on Friday, 21 November. In the time between load-outs, ERRS personnel excavated two 5-foot by 5-foot grids to a depth of 6 inches at sample areas SS-R11/12 P3S and SS-R13/14 P3S, due to lead levels of 190 ppm. A roll-off dumpster was delivered to take away the tires and metal debris accumulated during excavation.

### **Week Ending Friday, 28 November 2008**

On 24 November 2008, START SL Willette, EPA OSC Melanie Morash, Shaw RM John Kiley, and ERRS personnel Dan Sylvia, Bobby Moitoso, and Fred Russell mobilized to the site. EPA chemist Scott Clifford was on site with the EPA Mobile Laboratory to conduct field screening on samples for field PCBs and lead by XRF. START SL Willette collected composite floor and grab perimeter samples from the two 5-foot by 5-foot grids to the south of the roadway, all 10 of the grids that were inside of the foundation (SS-01, -02, -03, -03.5, -04, -05, -05.5, -06, -07, -08), as well as collecting rinsate samples from the stone tire wash area at the end of the access road. ERRS personnel finished loading metal, debris, and used PPE into the roll-off. Two grids (SS-04 and -05) were found to have contamination above Action Levels, and ERRS personnel excavated both grids down to a final depth of 3 feet. START SL Willette sampled the grids and delivered the samples to EPA Chemist Clifford in the EPA Mobile Laboratory. Excavation inside the foundation was completed, and ERRS personnel began backfilling the area with clean off-site fill material.

### **Week Ending Friday, 5 December 2008**

On 1 December 2008, EPA OSC Melanie Morash, Shaw RM John Kiley, and ERRS personnel Dan Sylvia, Bobby Moitoso, and Fred Russell mobilized to the site. Clean off-site fill material for inside the foundation was delivered, and ERRS personnel continued backfilling inside of the foundation area.

On 2 December 2008, three final loads of non-HAZ material were transported from the site. START SL Dennis Willette and Carolyn Imbres arrived on site and collected final global positioning system (GPS) points and cleaned up flags, stakes, and other remaining materials.

### **Week Ending Friday, 12 December 2008**

On 8 December 2008, RM John Kiley and ERRS personnel Dan Sylvia, Bobby Moitoso, and Fred Russell mobilized to the site. ERRS personnel finished backfilling the foundation area and finished roadway repairs. All site materials (stakes, flags, hay bales, and fence material) were picked up and removed. ERRS equipment (excavator, loader, trailer, generator, porto-johns, and the roll-off dumpster) and personnel demobilized from the site, and all work signs were removed.

### **Week Ending Friday, 19 December 2008**

On 15 December 2008, OSC Morash and RM Kiley mobilized to the site for a final site walk. Prior to the site walk, the dumpster (for trash and site debris) was demobilized from the site. OSC Morash, State and local officials, and RM Kiley met with the property owners to conduct the final site walk. The site was secured, and OSC Morash and RM Kiley demobilized from the site.

**4.0 ESTIMATED COSTS OF THE REMOVAL ACTION**

EPA resources committed under this Removal Action, conducted from 6 August 2008 through 15 December 2008, are summarized below:

Extramural Costs

Regional Allowance Costs	
ERRS Contractor	\$ 600,000
START	<u>\$ 137,810</u>
Subtotal, Extramural Costs	\$ 737,810
Extramural Contingency	<u>\$ 14,590</u>
<b>Total, Extramural Costs</b>	<b>\$ 752,400</b>

This accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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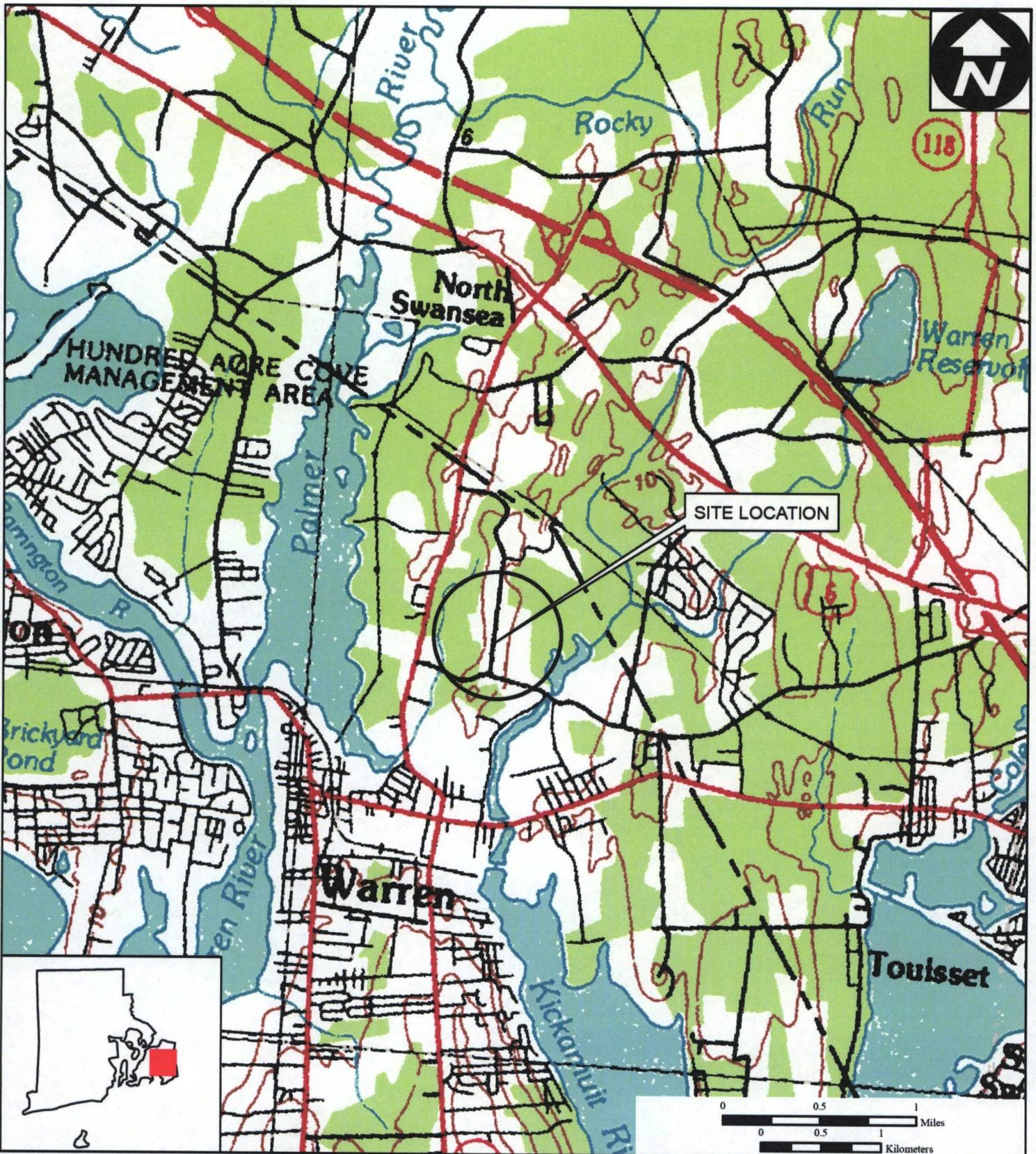
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- [5] Weston Solutions, Inc. March 2006. *Standard Operating Procedure for Surface and Subsurface Soil Sampling*, SOP No. WSI/S3-001, Superfund Technical Assessment and Response Team III (START), Wilmington, MA.
- [6] Weston Solutions, Inc. March 2006. *Standard Operating Procedure for Trimble™ Pathfinder Pro XRS Global Positioning System (GPS) with TSCI Data Logger*, SOP No. WSI/S3-020, Superfund Technical Assessment and Response Team III (START), Wilmington, MA.
- [7] Weston Solutions, Inc. March 2006. *Standard Operating Procedure for Air Sampling*, SOP No. WSI/S3-006, Superfund Technical Assessment and Response Team III (START), Wilmington, MA.

## Appendices

## Appendix A

### Figures

- Site Location Map (Figure 1)
- Aerial Site Map (Figure 2)
- Sample Location Map (Figure 3)
- Excavation Map (Figure 4)
- Final Excavation Map (Figure 5)
- Final Excavation Map (Figure 5A)



**FIGURE 1**

**SITE LOCATION MAP**

**Birch Swamp Road  
Birch Swamp Road  
Warren, Rhode Island**

**EPA Region I  
Superfund Technical Assessment and  
Response Team (START) III  
Contract No. EP-W-05-042**

**TDD Number:** 08-05-0006  
**Created by:** B. MACE  
**Created on:** 5 July 2007  
**Modified by:** B. MACE  
**Modified on:** 17 June 2008

**Data Sources:**  
Topos: MicroPath/USGS  
Quadrangle Name(s): Tiverton, Rhode Island/  
Massachusetts, 1975, Revised 1977  
All other data: START



E:\RI\_gis\Birch Swamp Road\MXD\Figure 1.mxd



**FIGURE 2**

**AERIAL SITE MAP**

**Birch Swamp Road  
 Birch Swamp Road  
 Warren, Rhode Island**

**EPA Region I  
 Superfund Technical Assessment and  
 Response Team (START) III  
 Contract No. EP-W-05-042**  
 TDD Number: 08-05-0006  
 Created by: A. LYNCH  
 Created on: 05 July 2007  
 Modified by: B. MACE  
 Modified on: 17 June 2008

**LEGEND**

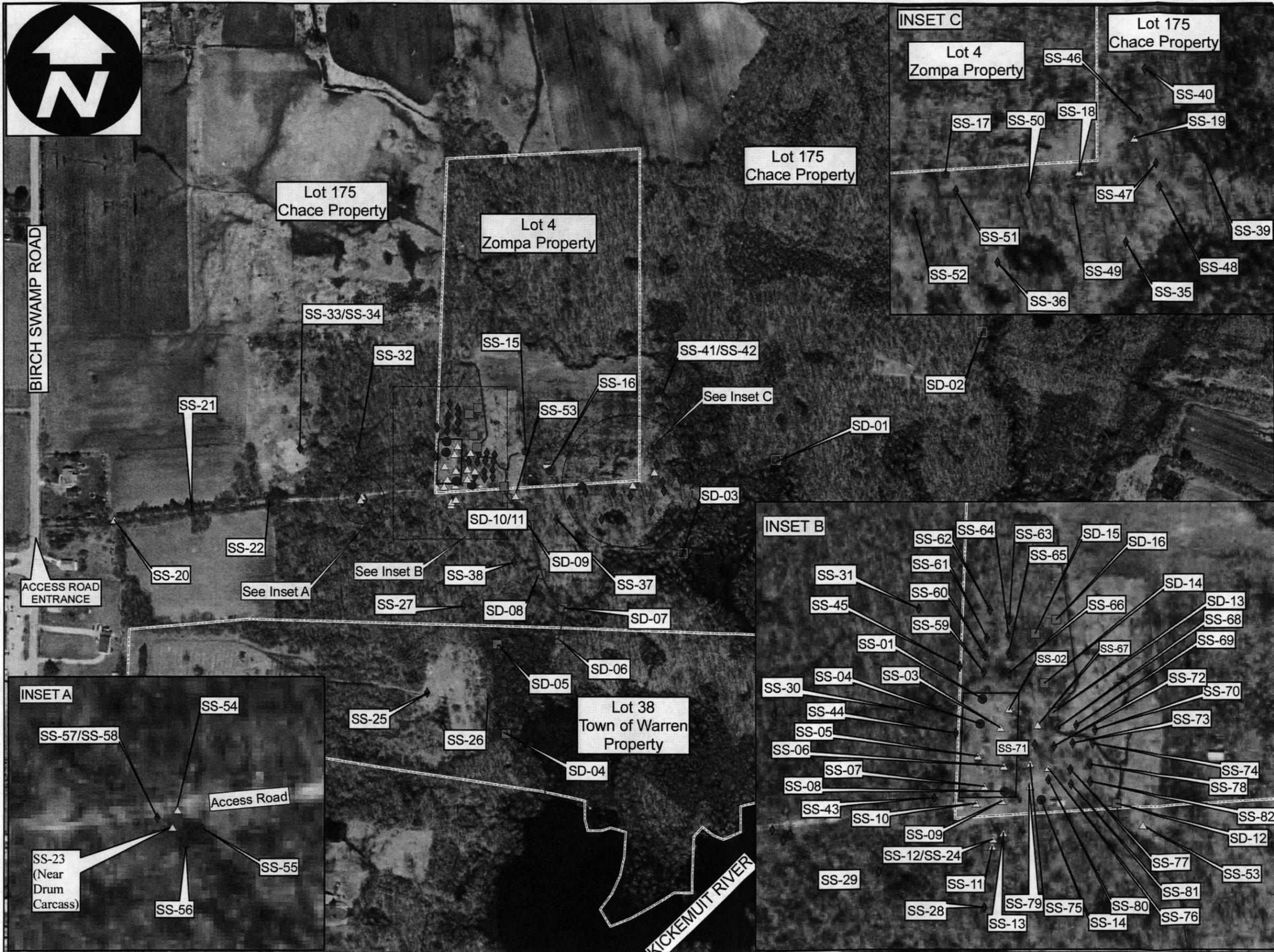
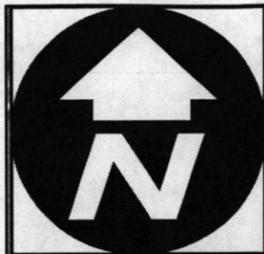
-  Lot Boundaries
-  Foundation Area
-  Streams



0 250 500  
 Feet

**Data Sources:**  
 Imagery: RI DOT  
 Topos: MicroPath  
 All other data: START





**FIGURE 3**  
**SAMPLE LOCATION MAP**  
 Birch Swamp Road Site  
 Birch Swamp Road  
 Warren, Rhode Island

EPA Region I  
 Superfund Technical Assessment and  
 Response Team (START) III  
 Contract No. EP-W-05-042

TDD Number: 08-05-0006  
 Created by: B. Mace  
 Created on: 15 August 2007  
 Modified by: B. Mace  
 Modified on: 15 August 2008

**LEGEND**

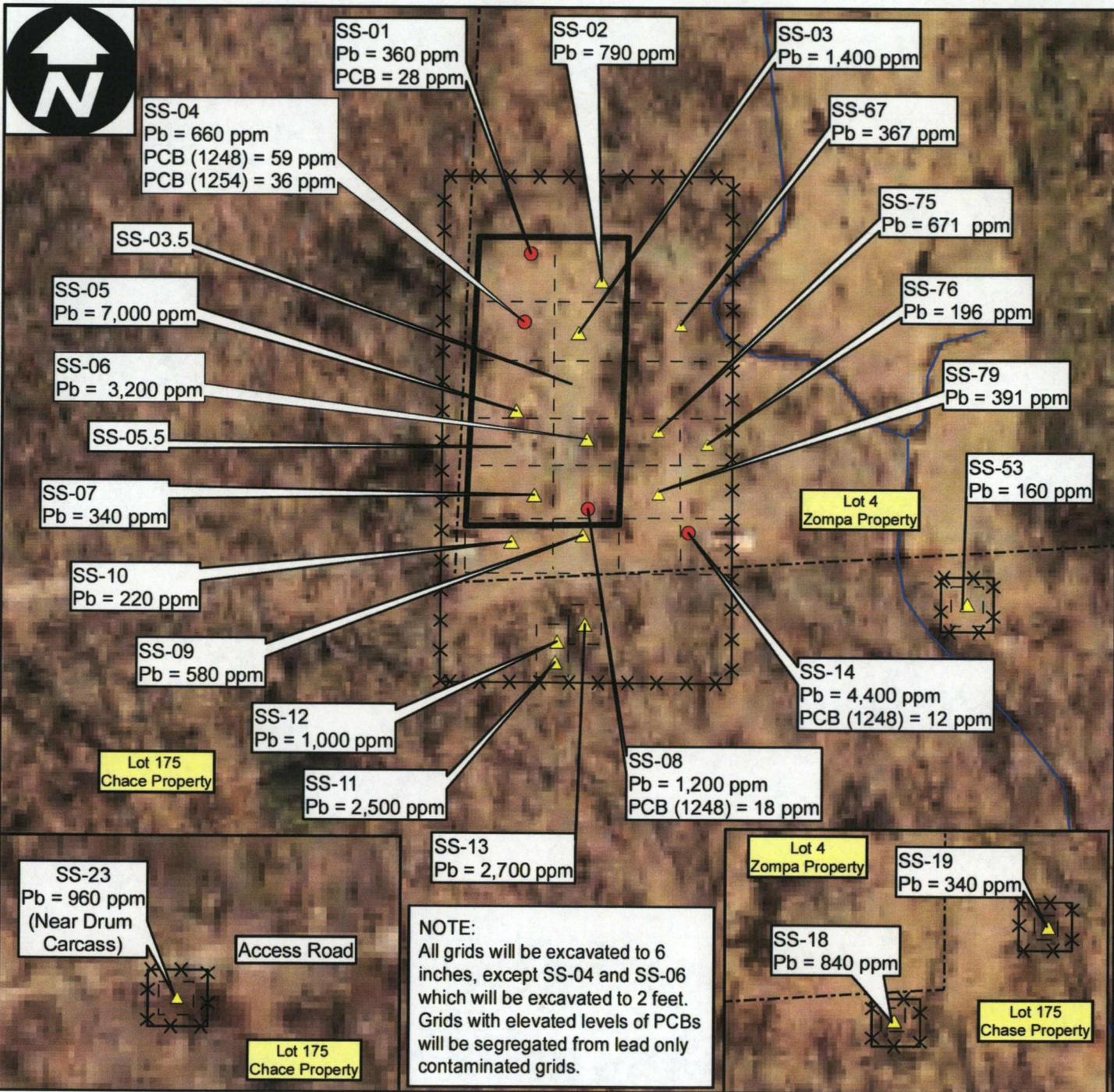
- Lot Boundaries
- Former Foundation
- Streams
- 2007 Soil Samples
- 2008 Soil Samples
- 2007/2008 Lead >150 ppm
- 2007 Lead >150 & PCB >10 ppm
- 2007 Sediment Samples
- 2008 Sediment Samples

> Greater than  
 PCB Polychlorinated biphenyl  
 ppm parts per million

0 250 500 Feet

**Data Sources:**  
 Imagery: Rhode Island Geographic Information System (RIGIS), MainStreetGIS, LLC.  
 Topos: MicroPath  
 All other data: START, EPA Office of Environmental Measurement and Evaluation (OEME).





**FIGURE 4**  
**EXCAVATION MAP**  
**Birch Swamp Road Site**  
**Birch Swamp Road**  
**Warren, Rhode Island**

**EPA Region I**  
**Superfund Technical Assessment and**  
**Response Team (START) III**  
**Contract No. EP-W-05-042**  
**TDD Number:** 08-05-0006  
**Created by:** B. MACE  
**Created on:** 30 April 2008  
**Modified by:** B. MACE  
**Modified on:** 27 August 2008

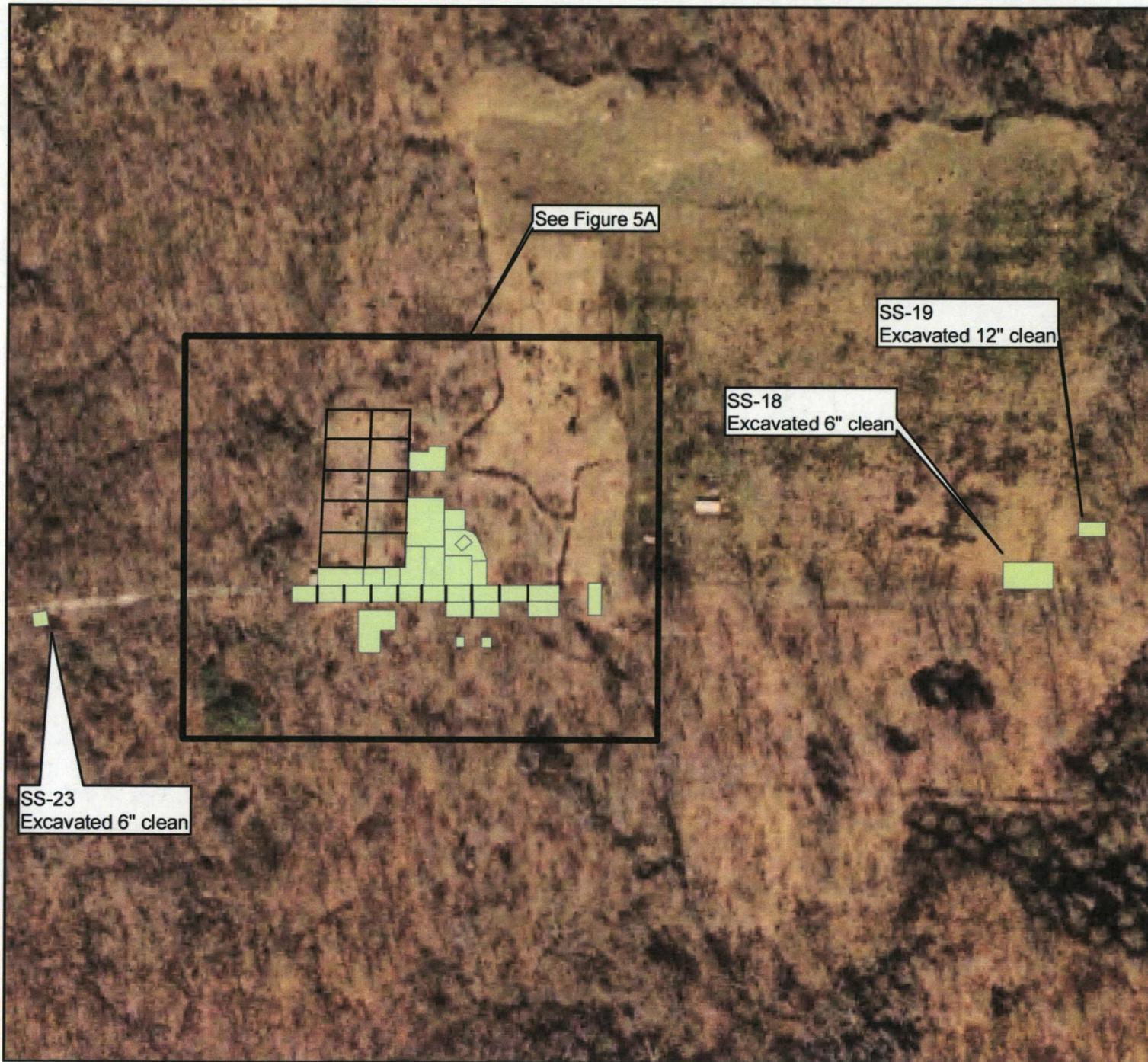
**LEGEND**

- Lot Boundaries
- Former Foundation
- Excavation grids
- Fence
- Streams
- Lead >150 ppm
- Lead >150 & PCB >10 ppm
- > greater than
- Pb Lead
- PCB Polychlorinated biphenyl
- ppm parts per million

0 25 50 75 100 Feet

**Data Sources:**  
Imagery: RI DOT  
Topos: MicroPath  
All other data: START





**FIGURE 5**  
**FINAL EXCAVATION MAP**  
 Birch Swamp Road  
 Birch Swamp Road  
 Warren, Rhode Island

EPA Region I  
 Superfund Technical Assessment and  
 Response Team (START) III  
 Contract No. EP-W-05-042  
 TDD Number: 08-05-0006  
 Created by: D. Willette  
 Created on: 21 January 2009  
 Modified by:  
 Modified on:

**LEGEND**

 Excavated Area

 Former Foundation

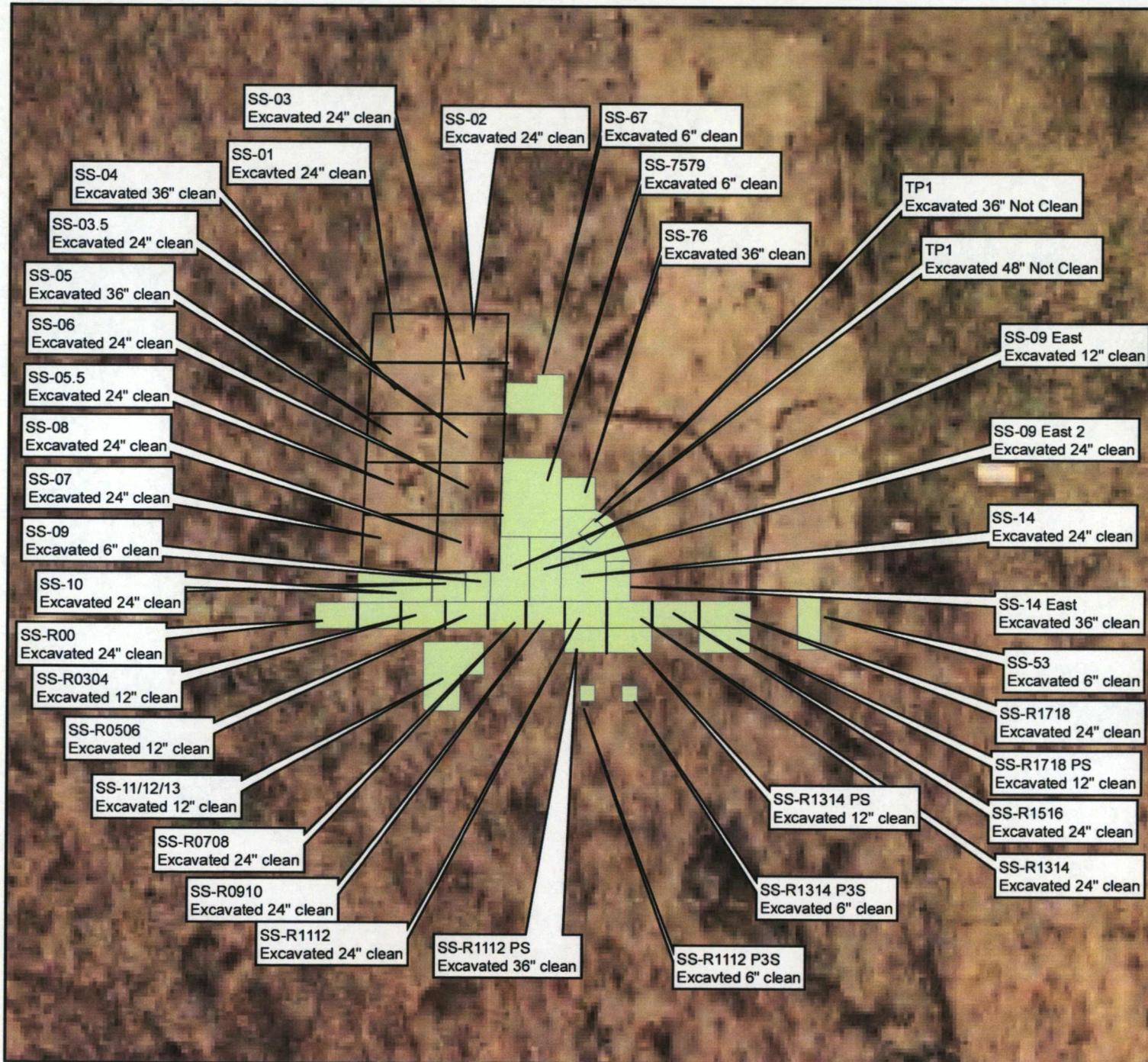
" = inches



80 40 0 80 Feet  


**Data Sources:**  
 Imagery: RI DOT  
 Topos: MicroPath  
 All other data: START





**FIGURE 5A**  
**FINAL EXCAVATION MAP**  
 Birch Swamp Road  
 Birch Swamp Road  
 Warren, Rhode Island

EPA Region I  
 Superfund Technical Assessment and  
 Response Team (START) III  
 Contract No. EP-W-05-042  
 TDD Number: 08-05-0006  
 Created by: D. Willette  
 Created on: 21 January 2009  
 Modified by:  
 Modified on:

**LEGEND**

- Excavated Area
- Former Foundation
- " = inches

50 25 0 50 Feet

**Data Sources:**  
 Imagery: RI DOT  
 Topos: MicroPath  
 All other data: START



## Appendix B

### Tables

Perimeter Air Monitoring Results (Table 1)

Lead by Field XRF (Table 2)

Polychlorinated Biphenyl in Soil Field Method (Table 3)

Total Metals in Soil (Table 4)

Semivolatile Organic Compound Soil Analysis (Table 5)

Waste Disposal Summary Table (Table 6)

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: PEL

Table 1  
 Perimeter Air Monitoring Results  
 mg/m<sup>3</sup>

<b>Sample Number:</b>	D21108	D21109	D21110	D21111	D21112	D21113	D21114
<b>Date Collected:</b>	9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/5/2008	9/5/2008	9/5/2008
<b>Lead (NIOSH 7300)</b>	2.779E-05	2.779E-05	2.779E-05	2.779E-05	2.637E-05	2.751E-05	2.801E-05
<b>Flag</b>	U	U	U	U	U	U	U
<b>Sample Number:</b>	D21115	D21116	D21117	D21118	D21119	D21120	D21121
<b>Date Collected:</b>	9/8/2008	9/8/2008	9/8/2008	9/9/2008	9/9/2008	9/9/2008	9/10/2008
<b>Lead (NIOSH 7300)</b>	2.613E-05	2.635E-05	2.478E-05	3.738E-05	3.952E-05	3.981E-05	2.671E-05
<b>Flag</b>	U	U	U	U	U	U	U
<b>Sample Number:</b>	D21122	D21123					
<b>Date Collected:</b>	9/10/2008	9/10/2008					
<b>Lead (NIOSH 7300)</b>	2.809E-05	2.837E-05					
<b>Flag</b>	U	U					

**Notes:**

START has reported the data as it was received from the PEL, A Division of Spectrum Analytical Laboratory.  
 START has not performed any data validation of the PEL Laboratory data.

mg/m<sup>3</sup> = milligrams per cubic meter

U = Not detected at method detection/reporting limit

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	310	340	110	520

SAMPLE LOCATION:	SS-19 6 "	SS-18 P West	SS-18 P South	SS-18 P East
SAMPLE NUMBER:	R01-080805MM-0092	R01-080805MM-0093	R01-080805MM-0094	R01-080805MM-0095
LABORATORY NUMBER:	AA86338	AA86339	AA86340	AA86341
DATE SAMPLED:	09/04/08	09/04/08	09/04/08	09/04/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	360	110	<74	120

SAMPLE LOCATION:	SS-18 P North	SS-18 6"	SS-19 P North	SS-19 P South
SAMPLE NUMBER:	R01-080805MM-0096	R01-080805MM-0097	R01-080805MM-0098	R01-080805MM-0099
LABORATORY NUMBER:	AA86342	AA86343	AA86344	AA86345
DATE SAMPLED:	09/04/08	09/04/08	09/04/08	09/04/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	560	110	210	75

SAMPLE LOCATION:	SS-19 P East	SS-19 P West	SS-19 (DUP)	SS-53 6"
SAMPLE NUMBER:	R01-080805MM-0100	R01-080805MM-0101	R01-080805MM-0102	R01-080805MM-0104
LABORATORY NUMBER:	AA86346	AA86347	AA86348	AA86369
DATE SAMPLED:	09/04/08	09/04/08	09/04/08	09/05/08

**NOTES:**

START has reported the data as it was received from the EPA Office of Environmental Measurement and Evaluation (OEME) Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).  
 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

<b>SAMPLE LOCATION:</b>	<b>SS-53 P West</b>	<b>SS-53 P East</b>	<b>SS-53 P South</b>	<b>SS-53 P North</b>
<b>SAMPLE NUMBER:</b>	<b>R01-080805MM-0105</b>	<b>R01-080805MM-0106</b>	<b>R01-080805MM-0107</b>	<b>R01-080805MM-0108</b>
<b>LABORATORY NUMBER:</b>	<b>AA86370</b>	<b>AA86371</b>	<b>AA86372</b>	<b>AA86373</b>
<b>DATE SAMPLED:</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>

<b>INORGANIC ANALYTES</b>	<b>METHOD</b>	<b>REPORTING LIMIT</b>				
Lead	XRF	5	180	140	120	260

<b>SAMPLE LOCATION:</b>	<b>SS-13 6"</b>	<b>SS-13 P West</b>	<b>SS-13 P East</b>	<b>SS-13 P South</b>
<b>SAMPLE NUMBER:</b>	<b>R01-080805MM-0109</b>	<b>R01-080805MM-0110</b>	<b>R01-080805MM-0111</b>	<b>R01-080805MM-0112</b>
<b>LABORATORY NUMBER:</b>	<b>AA86374</b>	<b>AA86375</b>	<b>AA86376</b>	<b>AA86377</b>
<b>DATE SAMPLED:</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>

<b>INORGANIC ANALYTES</b>	<b>METHOD</b>	<b>REPORTING LIMIT</b>				
Lead	XRF	5	350	910	80	1100

<b>SAMPLE LOCATION:</b>	<b>SS-13 P North</b>	<b>SS-1112 6"</b>	<b>SS-1112 P East</b>	<b>SS-1112 P South</b>
<b>SAMPLE NUMBER:</b>	<b>R01-080805MM-0113</b>	<b>R01-080805MM-0114</b>	<b>R01-080805MM-0115</b>	<b>R01-080805MM-0116</b>
<b>LABORATORY NUMBER:</b>	<b>AA86378</b>	<b>AA86379</b>	<b>AA86380</b>	<b>AA86381</b>
<b>DATE SAMPLED:</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>	<b>09/05/08</b>

<b>INORGANIC ANALYTES</b>	<b>METHOD</b>	<b>REPORTING LIMIT</b>				
Lead	XRF	5	250	320	610	1200

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).

Analytical Method = X-Ray Fluorescence (XRF).

mg/Kg = milligrams per Kilogram

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-1112 P West	SS-1112 P North	SS-23 6"	SS-23 P West
SAMPLE NUMBER:	R01-080805MM-0117	R01-080805MM-0118	R01-080805MM-01119	R01-080805MM-0120
LABORATORY NUMBER:	AA86382	AA86383	AA86384	AA86385
DATE SAMPLED:	09/05/08	09/05/08	09/05/08	09/05/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	390	940	100	55

SAMPLE LOCATION:	SS-23 P East	SS-23 P South	SS-23 P North	SS-10 6"
SAMPLE NUMBER:	R01-080805MM-0121	R01-080805MM-0122	R01-080805MM-0123	R01-080805MM-0124
LABORATORY NUMBER:	AA86386	AA86387	AA86388	AA86389
DATE SAMPLED:	09/05/08	09/05/08	09/05/08	09/05/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	100	370	160	220

SAMPLE LOCATION:	SS-10 P East	SS-10 P South	SS-10 P West	SS-09 6"
SAMPLE NUMBER:	R01-080805MM-0125	R01-080805MM-0126	R01-080805MM-0127	R01-080805MM-0128
LABORATORY NUMBER:	AA86390	AA86391	AA86392	AA86393
DATE SAMPLED:	09/05/08	09/05/08	09/05/08	09/05/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	290	280	310	85

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).  
 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-09 P East	SS-09 P West	SS-09 P South	SS-14 6"
SAMPLE NUMBER:	R01-080805MM-0129	R01-080805MM-0130	R01-080805MM-0131	R01-080805MM-0158
LABORATORY NUMBER:	AA86394	AA86395	AA86396	AA86473
DATE SAMPLED:	09/05/08	09/05/08	09/05/08	09/08/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		560	390	290
					3400

SAMPLE LOCATION:	SS-14 P West	SS-14 P North	SS-14 P South	SS-14 P East
SAMPLE NUMBER:	R01-080805MM-0159	R01-080805MM-0160	R01-080805MM-0161	R01-080805MM-0162
LABORATORY NUMBER:	AA86474	AA86475	AA86476	AA86477
DATE SAMPLED:	09/08/08	09/08/08	09/08/08	09/08/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		240	8700	400
					440

SAMPLE LOCATION:	SS-79 6"	SS-79 P West	SS-79 P North	SS-79 P South
SAMPLE NUMBER:	R01-080805MM-0163	R01-080805MM-0164	R01-080805MM-0165	R01-080805MM-0166
LABORATORY NUMBER:	AA86478	AA86479	AA86480	AA86481
DATE SAMPLED:	09/08/08	09/08/08	09/08/08	09/08/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	99	400	420
					350

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).

Analytical Method = X-Ray Fluorescence (XRF).

mg/Kg = milligrams per Kilogram

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-79 P East	SS-67 6"	SS-67 P West	SS-67 P East
SAMPLE NUMBER:	R01-080805MM-0167	R01-080805MM-0168	R01-080805MM-0169	R01-080805MM-0170
LABORATORY NUMBER:	AA86482	AA86483	AA86484	AA86485
DATE SAMPLED:	09/08/08	09/09/08	09/09/08	09/09/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	180	81	390
170				
SAMPLE LOCATION:	SS-67 P South	SS-67 P North	SS-75 6"	SS-75 P South
SAMPLE NUMBER:	R01-080805MM-0171	R01-080805MM-0172	R01-080805MM-0173	R01-080805MM-0174
LABORATORY NUMBER:	AA86486	AA86487	AA86488	AA86489
DATE SAMPLED:	09/09/08	09/09/08	09/09/08	09/09/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	240	260	59
1000				
SAMPLE LOCATION:	SS-75 P East	SS-75 P North	SS-75 P West	SS-76 6"
SAMPLE NUMBER:	R01-080805MM-0175	R01-080805MM-0176	R01-080805MM-0177	R01-080805MM-0178
LABORATORY NUMBER:	AA86490	AA86491	AA86492	AA86493
DATE SAMPLED:	09/09/08	09/09/08	09/09/08	09/09/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	5	150	250
160				250

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).

Analytical Method = X-Ray Fluorescence (XRF).

mg/Kg = milligrams per Kilogram

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-76 P West	SS-76 P South	SS-76 P North	SS-76 P East
SAMPLE NUMBER:	R01-080805MM-0179	R01-080805MM-0180	R01-080805MM-0181	R01-080805MM-0182
LABORATORY NUMBER:	AA86494	AA86495	AA86496	AA86497
DATE SAMPLED:	09/09/08	09/09/08	09/09/08	09/09/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		160	160	150
					140

SAMPLE LOCATION:	SS-01 1'	SS-04 2'	SS-05 1'	SS-05.5 1'
SAMPLE NUMBER:	R01-080805MM-0183	R01-080805MM-0184	R01-080805MM-0185	R01-080805MM-0186
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/15/08	09/15/08	09/15/08	09/15/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		495	128	135
					217

SAMPLE LOCATION:	SS-02 6"	SS-03 1'	SS-03.5 1'	SS-06 2'
SAMPLE NUMBER:	R01-080805MM-0187	R01-080805MM-0188	R01-080805MM-0189	R01-080805MM-0190
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/15/08	09/15/08	09/15/08	09/15/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	569	70	1768
					9

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).  
 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-19 1'	SS-19 P2 East	SS-18 P2 North	SS-18 P2 East
SAMPLE NUMBER:	R01-080805MM-0191	R01-080805MM-0192	R01-080805MM-0193	R01-080805MM-0194
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/15/08	09/15/08	09/15/08	09/15/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		9	284	463
					373

SAMPLE LOCATION:	SS-18 P2 West	SS-18 P3 East	SS-18 P3 North	SS-19 P3 East
SAMPLE NUMBER:	R01-080805MM-0195	R01-080805MM-0196	R01-080805MM-0197	R01-080805MM-0198
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/15/08	09/16/08	09/16/08	09/16/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		148	296	375
					79

SAMPLE LOCATION:	SS-19 P4 East	SS-18 P4 East	SS-18 P4 North	SS-53 P2 North
SAMPLE NUMBER:	R01-080805MM-0199	R01-080805MM-0200	R01-080805MM-201	R01-080805MM-202
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/16/08	09/16/08	09/16/08	09/16/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	64	262	72
					576

**NOTES:**

START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory data. An internal data review was performed by EPA OEME Laboratory personnel prior to submittal to the EPA Contracting Officer's Representative (COR).

Analytical Method = X-Ray Fluorescence (XRF).

mg/Kg = milligrams per Kilogram

NO. = Number.

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-53 P2 West	SS-18 P5 East	SS-18 P6 East	SS-18 P7 East
SAMPLE NUMBER:	R01-080805MM-0203	R01-080805MM-0204	R01-080805MM-0205	R01-080805MM-0206
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/16/08	09/16/08	09/16/08	09/16/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		65	202	386
					88

SAMPLE LOCATION:	SS-53 P3 North	SS-53 P4 North	SS-53 P5 North	SS-67 P2 North
SAMPLE NUMBER:	R01-080805MM-0207	R01-080805MM-0208	R01-080805MM-0210	R01-080805MM-0211
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/16/08	09/16/08	09/16/08	09/16/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		169	334	234
					124

SAMPLE LOCATION:	SS-67 P2 East	SS-67 P2 West	SS-67 P2 South	SS-67 P3 West
SAMPLE NUMBER:	R01-080805MM-0212	R01-080805MM-0213	R01-080805MM-0214	R01-080805MM-0215
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/16/08	09/16/08	09/16/08	09/16/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	118	335	236
					164

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 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		132	94	533	86

SAMPLE LOCATION:	SS-67 P3 South	SS-53 6" North	SS-76 1'	SS-76 P2 West
SAMPLE NUMBER:	R01-080805MM-0217	R01-080805MM-0218	R01-080805MM-0219	R01-080805MM-0220
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/16/08	09/17/08	09/17/08	09/17/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		138	274	320	669

SAMPLE LOCATION:	SS-76 P2 South	SS-76 3'	SS-TP 1	SS-09 P2 East
SAMPLE NUMBER:	R01-080805MM-0221	R01-080805MM-0222	R01-080805MM-0223	R01-080805MM-0224
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/17/08	09/17/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		590	542	731	431

SAMPLE LOCATION:	SS-09 P3 East	SS-09 P4 East	SS-09 P2 South	SS-09 P3 South
SAMPLE NUMBER:	R01-080805MM-0225	R01-080805MM-0226	R01-080805MM-0227	R01-080805MM-0228
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-09 P4 South	SS-09 P2 West	SS-09 P3 West	SS-09 P4 West
SAMPLE NUMBER:	R01-080805MM-0229	R01-080805MM-0230	R01-080805MM-0231	R01-080805MM-0232
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		255	139	202	287

SAMPLE LOCATION:	SS-10 P2 East	SS-10 P3 East	SS-10 P4 East	SS-10 P2 South
SAMPLE NUMBER:	R01-080805MM-0233	R01-080805MM-0234	R01-080805MM-0235	R01-080805MM-0236
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		147	244	191	316

SAMPLE LOCATION:	SS-10 P3 South	SS-10 P4 South	SS-10 P2 West	SS-10 P3 West
SAMPLE NUMBER:	R01-080805MM-0237	R01-080805MM-0238	R01-080805MM-0239	R01-080805MM-0240
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	117	135	120	568

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 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-10 P4 West	SS-111213 1'	SS-14 1'	SS-14 P2 South
SAMPLE NUMBER:	R01-080805MM-0241	R01-080805MM-0242	R01-080805MM-0243	R01-080805MM-0244
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08
INORGANIC ANALYTES	METHOD	REPORTING LIMIT		
Lead	XRF	24	57	336
349				
SAMPLE LOCATION:	SS-14 P3 South	SS-14 P4 South	SS-14 P2 East	SS-14 P2 West
SAMPLE NUMBER:	R01-080805MM-0245	R01-080805MM-0246	R01-080805MM-0247	R01-080805MM-0248
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08
INORGANIC ANALYTES	METHOD	REPORTING LIMIT		
Lead	XRF	1540	706	189
163				
SAMPLE LOCATION:	SS-14 P2 North	SS-R01	SS-R02	SS-R03
SAMPLE NUMBER:	R01-080805MM-0249	R01-080805MM-0250	R01-080805MM-0251	R01-080805MM-0252
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08
INORGANIC ANALYTES	METHOD	REPORTING LIMIT		
Lead	XRF	5	85	206
615				117

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Analytical Method = X-Ray Fluorescence (XRF).

mg/Kg = milligrams per Kilogram

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-R04	SS-R05	SS-R06	SS-R07
SAMPLE NUMBER:	R01-080805MM-0253	R01-080805MM-0254	R01-080805MM-0255	R01-080805MM-0256
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		135	371	250	431

SAMPLE LOCATION:	SS-R08	SS-R09	SS-R10	SS-R11
SAMPLE NUMBER:	R01-080805MM-0257	R01-080805MM-0258	R01-080805MM-0259	R01-080805MM-0260
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF		255	409	1360	487

SAMPLE LOCATION:	SS-R12	SS-R13	SS-R14	SS-R15
SAMPLE NUMBER:	R01-080805MM-0261	R01-080805MM-0262	R01-080805MM-0263	R01-080805MM-0264
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/18/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT				
Lead	XRF	5	608	1540	706	4671

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 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		2163	465	260

SAMPLE LOCATION:	SS-R16	SS-R17	SS-R18	SS-10 ENT 1'
SAMPLE NUMBER:	R01-080805MM-0265	R01-080805MM-0266	R01-080805MM-0267	R01-080805MM-0269
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/18/08	09/18/08	09/18/08	09/19/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		59	110	98

SAMPLE LOCATION:	SS-10 ENT 2'	SS-111213 P2 North	SS-111213 P2 West	SS-111213 P2 South
SAMPLE NUMBER:	R01-080805MM-0270	R01-080805MM-0272	R01-080805MM-0273	R01-080805MM-0274
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/19/08	09/19/08	09/19/08	09/19/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		5	130	450

SAMPLE LOCATION:	SS-111213 P2 East	SS-10 1'	SS-09 6" 2	SS-09 P North
SAMPLE NUMBER:	R01-080805MM-0275	R01-080805MM-0277	R01-080805MM-0278	R01-080805MM-0279
LABORATORY NUMBER:	N/A	AA87103	AA87186	AA87187
DATE SAMPLED:	09/19/08	09/19/08	09/23/08	09/23/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		137	130	450

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 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-09 P5 East	SS-67 P4 West	SS-7579 P2 North	SS-7579 P2 South
SAMPLE NUMBER:	R01-080805MM-0281	R01-080805MM-0283	R01-080805MM-0284	R01-080805MM-0285
LABORATORY NUMBER:	AA87188	AA87189	AA87190	AA87191
DATE SAMPLED:	09/23/08	09/23/08	09/23/08	09/23/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		330	510	78
					200

SAMPLE LOCATION:	SS-7579 P2 East	SS-7579 P2 West	SS-TP1 3'	SS-TP1 P North
SAMPLE NUMBER:	R01-080805MM-0286	R01-080805MM-0287	R01-080805MM-0288	R01-080805MM-0289
LABORATORY NUMBER:	AA87192	AA87193	AA87194	AA87195
DATE SAMPLED:	09/23/08	09/23/08	09/23/08	09/23/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		230	210	320
					650

SAMPLE LOCATION:	SS-TP1 P South	SS-TP1 P West	SS-TP1 P South	SS-14 2'
SAMPLE NUMBER:	R01-080805MM-0290	R01-080805MM-0291	R01-080805MM-0292	R01-080805MM-0293
LABORATORY NUMBER:	AA87196	AA87197	AA87198	AA87199
DATE SAMPLED:	09/23/08	09/23/08	09/23/08	09/23/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	500	240	770
					150

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 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-14 P3E	SS-14 P3 West	SS-10 2'	SS-7579 P3 East
SAMPLE NUMBER:	R01-080805MM-0294	R01-080805MM-0295	R01-080805MM-0296	R01-080805MM-0297
LABORATORY NUMBER:	AA87200	AA87201	AA87261	N/A
DATE SAMPLED:	09/23/08	09/23/08	09/24/08	09/25/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	170	55	190
139				
SAMPLE LOCATION:	SS-7579 P3 South	SS-09 1'	SS-09 P2 North	SS-09 P6 East
SAMPLE NUMBER:	R01-080805MM-0298	R01-080805MM-0299	R01-080805MM-0300	R01-080805MM-0302
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/25/08	09/25/08	09/25/08	09/25/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	131	92	386
414				
SAMPLE LOCATION:	SS-14 P4 East	SS-TP1 P2 North	SS-TP1 P2 South	SS-TP1 P2 West
SAMPLE NUMBER:	R01-080805MM-0303	R01-080805MM-0304	R01-080805MM-0305	R01-080805MM-0306
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/25/08	09/25/08	09/25/08	09/25/08
<b>INORGANIC ANALYTES</b>	<b>REPORTING LIMIT</b>			
Lead	XRF	5	233	171
394				476

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-TP1 P2 East	SS-TP1 1' North	SS-TP1 1' West	SS-TP1 1' South
SAMPLE NUMBER:	R01-080805MM-0307	R01-080805MM-0308	R01-080805MM-0309	R01-080805MM-0310
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/25/08	09/25/08	09/25/08	09/25/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		54	838	810 238

SAMPLE LOCATION:	SS-TP1 1' East	SS-R1718 1'	SS-R1516 1'	SS-R1314 1'
SAMPLE NUMBER:	R01-080805MM-0311	R01-080805MM-0312	R01-080805MM-0313	R01-080805MM-0314
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/25/08	09/29/08	09/29/08	09/29/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		621	452	624 2337

SAMPLE LOCATION:	SS-R1112 1'	SS-R0910 1'	SS-R0708 1'	SS-R0506 1'
SAMPLE NUMBER:	R01-080805MM-0315	R01-080805MM-0316	R01-080805MM-0317	R01-080805MM-0318
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/29/08	09/29/08	09/30/08	09/30/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	1313	442	229 76

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-R0304 1'	SS-R00 1'	SS-R19	SS-R20
SAMPLE NUMBER:	R01-080805MM-0319	R01-080805MM-0320	R01-080805MM-0321	R01-080805MM-0322
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/30/08	09/30/08	09/29/08	09/29/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		85	173	137
					101

SAMPLE LOCATION:	SS-R21	SS-R22	SS-09 P7 East	SS-09 P8 East
SAMPLE NUMBER:	R01-080805MM-0323	R01-080805MM-0324	R01-080805MM-0325	R01-080805MM-0326
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/29/08	09/29/08	09/30/08	09/30/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		246	93	73
					190

SAMPLE LOCATION:	SS-09 P3 North	SS-09 P4 North	SS-14 P5 East	SS-14 P6 East
SAMPLE NUMBER:	R01-080805MM-0327	R01-080805MM-0328	R01-080805MM-0329	R01-080805MM-0330
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	09/30/08	09/30/08	09/30/08	09/30/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	391	318	283
					156

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-14 P7 East	SS-TP1 P3 South	SS-TP1 P4South	SS-R1718 P South
SAMPLE NUMBER:	R01-080805MM-0331	R01-080805MM-0332	R01-080805MM-0333	R01-080805MM-0340
LABORATORY NUMBER:	N/A	N/A	N/A	AA87383
DATE SAMPLED:	09/30/08	09/30/08	09/30/08	10/01/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		148	1714	237
					1500

SAMPLE LOCATION:	SS-R1516 P South	SS-R1314 P South	SS-R1112 P South	SS-R0910 P South
SAMPLE NUMBER:	R01-080805MM-0341	R01-080805MM-0342	R01-080805MM-0343	R01-080805MM-0344
LABORATORY NUMBER:	AA87384	AA87185	AA87386	AA87387
DATE SAMPLED:	10/01/08	10/01/08	10/01/08	10/01/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		110	600	690
					130

SAMPLE LOCATION:	SS-R0708 P South	SS-TP1 2' North	SS-TP1 2' West	SS-TP1 3' South
SAMPLE NUMBER:	R01-080805MM-0345	R01-080805MM-0346	R01-080805MM-0347	R01-080805MM-0348
LABORATORY NUMBER:	AA87388	AA87694	AA87695	AA87696
DATE SAMPLED:	10/01/08	10/03/08	10/03/08	10/03/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	100	410	370
					1300

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-TP1 3' East	SS-09 1' North	SS-09 1' East	SS-R0910 P2 South
SAMPLE NUMBER:	R01-080805MM-0349	R01-080805MM-0350	R01-080805MM-0351	R01-080805MM-0352
LABORATORY NUMBER:	AA87697	AA87698	AA87699	AA87700
DATE SAMPLED:	10/03/08	10/03/08	10/03/08	10/03/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		120	120	270
					100

SAMPLE LOCATION:	SS-R1112 P2 South	SS-R1112 P3 South	SS-R1314 P2 South	SS-R1314 P3 South
SAMPLE NUMBER:	R01-080805MM-0353	R01-080805MM-0354	R01-080805MM-0355	R01-080805MM-0356
LABORATORY NUMBER:	AA87701	AA87702	AA87703	AA87704
DATE SAMPLED:	10/03/08	10/03/08	10/03/08	10/03/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		140	190	76
					190

SAMPLE LOCATION:	SS-R1516 P2 South	SS-R1718 P2 South	SS-R1718 P3 South	SS-R1112 P South 1'
SAMPLE NUMBER:	R01-080805MM-0357	R01-080805MM-0358	R01-080805MM-0359	R01-080805MM-0360
LABORATORY NUMBER:	AA87705	AA87706	AA87707	AA87749
DATE SAMPLED:	10/03/08	10/03/08	10/03/08	10/07/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	110	<57	<49
					160

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mg/Kg = milligrams per Kilogram

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-R1314 P South 1'	SS-R1718 P South 1'	SS-TP1 3' North	SS-TP1 3' West
SAMPLE NUMBER:	R01-080805MM-0361	R01-080805MM-0362	R01-080805MM-0363	R01-080805MM-0364
LABORATORY NUMBER:	AA87750	AA87751	AA87752	AA87753
DATE SAMPLED:	10/07/08	10/07/08	10/08/08	10/08/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		70	150	330
					260

SAMPLE LOCATION:	SS-09 2' East	SS-R1112 2'	SS-R1112 3'	SS-R0910 2'
SAMPLE NUMBER:	R01-080805MM-0365	R01-080805MM-0366	R01-080805MM-0367	R01-080805MM-0368
LABORATORY NUMBER:	AA87754	AA87863	AA87864	AA87865
DATE SAMPLED:	10/08/08	10/09/08	10/09/08	10/10/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF		<63	360	<69
					<62

SAMPLE LOCATION:	SS-R0708 2'	SS-R1112 P3 South 1'	SS-R1112 P3 South 2'	SS-R1314 P3 South 1'
SAMPLE NUMBER:	R01-080805MM-0369	R01-080805MM-0370	R01-080805MM-0371	R01-080805MM-0372
LABORATORY NUMBER:	AA87866	AA88601	AA88602	AA88603
DATE SAMPLED:	10/10/08	11/05/08	11/05/08	11/05/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	<64	<64	<58
					<59

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 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-R1314 P3 South 2'	SS-R1112 P3 South 6"	SS-R1314 P3 South 6"	SS-01.2'
SAMPLE NUMBER:	R01-080805MM-0373	R01-080805MM-0375	R01-080805MM-0376	R01-080805MM-0377
LABORATORY NUMBER:	AA88604	AA90310	N/A	N/A
DATE SAMPLED:	11/05/08	11/24/08	11/24/08	11/24/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	<57	75	105	34

SAMPLE LOCATION:	SS-02.2'	SS-03.2'	SS-03.5.2'	SS-04.2'
SAMPLE NUMBER:	R01-080805MM-0378	R01-080805MM-0379	R01-080805MM-0380	R01-080805MM-0381
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	11/24/08	11/24/08	11/24/08	11/24/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	68	14	12	136

SAMPLE LOCATION:	SS-05.2'	SS-05.5.2'	SS-06.2'	SS-07.2'
SAMPLE NUMBER:	R01-080805MM-0382	R01-080805MM-0383	R01-080805MM-0384	R01-080805MM-0385
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	11/24/08	11/24/08	11/24/08	11/24/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	5	67	9	18

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 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 2  
 LEAD BY FIELD XRF  
 mg/Kg

SAMPLE LOCATION:	SS-08 2'	SS-04 3'	SS-05 3'	FP-N
SAMPLE NUMBER:	R01-080805MM-0386	R01-080805MM-0389	R01-080805MM-390	R01-080805MM-0391
LABORATORY NUMBER:	N/A	N/A	N/A	N/A
DATE SAMPLED:	11/24/08	11/26/08	11/26/08	11/24/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT			
Lead	XRF	33	<41	<49	ND (7)

SAMPLE LOCATION:	FP-S
SAMPLE NUMBER:	R01-080805MM-0392
LABORATORY NUMBER:	N/A
DATE SAMPLED:	11/24/08

INORGANIC ANALYTES	METHOD	REPORTING LIMIT
Lead	XRF	13

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 Analytical Method = X-Ray Fluorescence (XRF).  
 mg/Kg = milligrams per Kilogram  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:		SS-19 6 "	SS-18 P West	SS-18 P South	SS-18 P East	SS-18 P North	SS-18 6"
SAMPLE NUMBER:		R01-080805MM-0092	R01-080805MM-0093	R01-080805MM-0094	R01-080805MM-0095	R01-080805MM-0096	R01-080805MM-0097
LABORATORY NUMBER:		AA86338	AA86339	AA86340	AA86341	AA86342	AA86343
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor-1254		ND 0.2					
Aroclor-1260		ND 0.2					
DATE SAMPLED:		9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/4/2008
DATE EXTRACTED:		9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE ANALYZED:		9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008

SAMPLE LOCATION:		SS-19 P North	SS-19 P South	SS-19 P East	SS-19 P West	SS-19 (DUP)	SS-53 6"
SAMPLE NUMBER:		R01-080805MM-0098	R01-080805MM-0099	R01-080805MM-0100	R01-080805MM-0101	R01-080805MM-0102	R01-080805MM-0104
LABORATORY NUMBER:		AA86344	AA86345	AA86346	AA86347	AA86348	AA86369
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor-1254		ND 0.2					
Aroclor-1260		ND 0.2	ND 0.2	ND 0.2	0.25 0.2	ND 0.2	ND 0.2
DATE SAMPLED:		9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/5/2008
DATE EXTRACTED:		9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE ANALYZED:		9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008

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Samples were analyzed EPA Region 1 Standard Operating Procedure (SOP) FLDP2.SOP. Results are reported on a dry weight basis.

ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-53 P West		SS-53 P East		SS-53 P South		SS-53 P North		SS-13 6"		SS-13 P West	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER:	RL										
Aroclor-1254	ND	0.2	0.25	0.2	ND	0.2	0.81	0.2	0.43	0.2	2.2	0.2
Aroclor-1260	ND	0.2	ND	0.2	ND	0.2	ND	0.2	0.34	0.2	0.93	0.2
SAMPLE LOCATION: SS-53 P West      SS-53 P East      SS-53 P South      SS-53 P North      SS-13 6"      SS-13 P West SAMPLE NUMBER: R01-080805MM-0105      R01-080805MM-0106      R01-080805MM-0107      R01-080805MM-0108      R01-080805MM-0109      R01-080805MM-0110 LABORATORY NUMBER: AA86370      AA86371      AA86372      AA86373      AA86374      AA86375												
DATE SAMPLED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	
DATE EXTRACTED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	
DATE ANALYZED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	
SAMPLE LOCATION: SS-13 P East      SS-13 P South      SS-13 P North      SS-1112 6"      SS-1112 P East      SS-1112 P South SAMPLE NUMBER: R01-080805MM-0111      R01-080805MM-0112      R01-080805MM-0113      R01-080805MM-0114      R01-080805MM-0115      R01-080805MM-0116 LABORATORY NUMBER: AA86376      AA86377      AA86378      AA86379      AA86380      AA86381												
Aroclor-1254	ND	0.2	1.2	0.2	0.32	0.2	0.73	0.2	0.62	0.2	5.7	0.2
Aroclor-1260	ND	0.2	0.62	0.2	0.46	0.2	0.38	0.2	0.60	0.2	2.8	0.2
DATE SAMPLED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	
DATE EXTRACTED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	
DATE ANALYZED:	9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008		9/5/2008	

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-1112 P West		SS-1112 P North		SS-23 6"		SS-23 P West		SS-23 P East		SS-23 P South	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER: R01-080805MM-0117		SAMPLE NUMBER: R01-080805MM-0118		SAMPLE NUMBER: R01-080805MM-01119		SAMPLE NUMBER: R01-080805MM-0120		SAMPLE NUMBER: R01-080805MM-0121		SAMPLE NUMBER: R01-080805MM-0122	
LABORATORY NUMBER: AA86382		LABORATORY NUMBER: AA86383		LABORATORY NUMBER: AA86384		LABORATORY NUMBER: AA86385		LABORATORY NUMBER: AA86386		LABORATORY NUMBER: AA86387		
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor-1254	1.11	0.2	2.0	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Aroclor-1260	ND	0.2	0.88	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
DATE SAMPLED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE EXTRACTED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE ANALYZED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008

COMPOUND	SS-23 P North		SS-10 6"		SS-10 P East		SS-10 P South		SS-10 P West		SS-09 6"	
	SAMPLE LOCATION:											
	SAMPLE NUMBER: R01-080805MM-0123		SAMPLE NUMBER: R01-080805MM-0124		SAMPLE NUMBER: R01-080805MM-0125		SAMPLE NUMBER: R01-080805MM-0126		SAMPLE NUMBER: R01-080805MM-0127		SAMPLE NUMBER: R01-080805MM-0128	
LABORATORY NUMBER: AA86388		LABORATORY NUMBER: AA86389		LABORATORY NUMBER: AA86390		LABORATORY NUMBER: AA86391		LABORATORY NUMBER: AA86392		LABORATORY NUMBER: AA86393		
	RL	RL	RL	RL								
Aroclor-1254	ND	0.2	0.65	0.2	0.8	0.2	2.9	0.2	0.41	0.2	0.27	0.2
Aroclor-1260	ND	0.2	ND	0.2	0.3	0.2	ND	0.2	ND	0.2	ND	0.2
DATE SAMPLED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE EXTRACTED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008
DATE ANALYZED:	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008	9/5/2008

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-09 P East		SS-09 P West		SS-09 P South		SS-14 6"		SS-14 P West		SS-14 P North	
	SAMPLE NUMBER: R01-080805MM-0129		R01-080805MM-0130		R01-080805MM-0131		R01-080805MM-0158		R01-080805MM-0159		R01-080805MM-0160	
	LABORATORY NUMBER: AA86394		AA86395		AA86396		AA86473		AA86474		AA86475	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor-1254	1.8	0.2	4.3	0.2	1.9	0.2	15	0.2	0.51	0.2	72	8.0
Aroclor-1260	ND	0.2	ND	0.2	ND	0.2	ND	0.2	0.53	0.2	ND	8.0

DATE SAMPLED:	9/5/2008	9/5/2008	9/5/2008	9/8/2008	9/8/2008	9/8/2008
DATE EXTRACTED:	9/5/2008	9/5/2008	9/5/2008	9/10/2008	9/10/2008	9/10/2008
DATE ANALYZED:	9/5/2008	9/5/2008	9/5/2008	9/10/2008	9/10/2008	9/10/2008

COMPOUND	SS-14 P South		SS-14 P East		SS-79 6"		SS-79 P West		SS-79 P North		SS-79 P South	
	SAMPLE NUMBER: R01-080805MM-0161		R01-080805MM-0162		R01-080805MM-0163		R01-080805MM-0164		R01-080805MM-0165		R01-080805MM-0166	
	LABORATORY NUMBER: AA86476		AA86477		AA86478		AA86479		AA86480		AA86481	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor-1254	0.5	0.2	2.2	0.2	ND	0.2	0.95	0.2	ND	0.2	1.7	0.2
Aroclor-1260	ND	0.2	0.64	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2

DATE SAMPLED:	9/8/2008	9/8/2008	9/8/2008	9/8/2008	9/8/2008	9/8/2008
DATE EXTRACTED:	9/10/2008	9/10/2008	9/10/2008	9/10/2008	9/10/2008	9/10/2008
DATE ANALYZED:	9/10/2008	9/10/2008	9/10/2008	9/10/2008	9/10/2008	9/10/2008

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SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:		SS-79 P East		SS-67 6"		SS-67 P West		SS-67 P East		SS-67 P South		SS-67 P North	
SAMPLE NUMBER:		R01-080805MM-0167		R01-080805MM-0168		R01-080805MM-0169		R01-080805MM-0170		R01-080805MM-0171		R01-080805MM-0172	
LABORATORY NUMBER:		AA86482		AA86483		AA86484		AA86485		AA86486		AA86487	
COMPOUND		RL		RL		RL		RL		RL		RL	
Aroclor-1254		ND	0.2										
Aroclor-1260		ND	0.2										
DATE SAMPLED:		9/8/2008		9/9/2008		9/9/2008		9/9/2008		9/9/2008		9/9/2008	
DATE EXTRACTED:		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008	
DATE ANALYZED:		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008	
SAMPLE LOCATION:		SS-75 6"		SS-75 P South		SS-75 P East		SS-75 P North		SS-75 P West		SS-76 6"	
SAMPLE NUMBER:		R01-080805MM-0173		R01-080805MM-0174		R01-080805MM-0175		R01-080805MM-0176		R01-080805MM-0177		R01-080805MM-0178	
LABORATORY NUMBER:		AA86488		AA86489		AA86490		AA86491		AA86492		AA86493	
COMPOUND		RL		RL		RL		RL		RL		RL	
Aroclor-1254		ND	0.2	0.26	0.2	ND	0.2	0.22	0.2	ND	0.2	ND	0.2
Aroclor-1260		ND	0.2										
DATE SAMPLED:		9/9/2008		9/9/2008		9/9/2008		9/9/2008		9/9/2008		9/9/2008	
DATE EXTRACTED:		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008	
DATE ANALYZED:		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008		9/10/2008	

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg,

COMPOUND	SS-76 P West		SS-76 P South		SS-76 P North		SS-76 P East		SS-01 1'		SS-04 2'	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER:	RL										
Aroclor-1254	ND	0.2	ND	0.2	ND	0.2	ND	0.2	7.5		ND	0.3
Aroclor-1260	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.5	ND	0.3
DATE SAMPLED: 9/9/2008 9/9/2008 9/9/2008 9/9/2008 9/11/2008 9/11/2008 DATE EXTRACTED: 9/10/2008 9/10/2008 9/10/2008 9/10/2008 9/11/2008 9/11/2008 DATE ANALYZED: 9/10/2008 9/10/2008 9/10/2008 9/10/2008 9/11/2008 9/11/2008												
COMPOUND	SS-05 1'		SS-05.5 1'		SS-02 6"		SS-03 1'		SS-03.5 1'		SS-06 2'	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER:	RL										
Aroclor-1254	N/A											
Aroclor-1260	N/A											
DATE SAMPLED: 9/11/2008 9/11/2008 9/11/2008 9/12/2008 9/12/2008 9/15/2008 DATE EXTRACTED: 9/11/2008 9/11/2008 9/11/2008 9/12/2008 9/12/2008 9/15/2008 DATE ANALYZED: 9/11/2008 9/11/2008 9/11/2008 9/12/2008 9/12/2008 9/15/2008												

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RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:	SS-19 1'	SS-19 P2 East	SS-18 P2 North	SS-18 P2 East	SS-18 P2 West	SS-18 P3 East
SAMPLE NUMBER:	R01-080805MM-0191	R01-080805MM-0192	R01-080805MM-0193	R01-080805MM-0194	R01-080805MM-0195	R01-080805MM-0196
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A

DATE SAMPLED:	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/16/2008
DATE EXTRACTED:	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/16/2008
DATE ANALYZED:	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/15/2008	9/16/2008

SAMPLE LOCATION:	SS-18 P3 North	SS-19 P3 East	SS-19 P4 East	SS-18 P4 East	SS-18 P4 North	SS-53 P2 North
SAMPLE NUMBER:	R01-080805MM-0197	R01-080805MM-0198	R01-080805MM-0199	R01-080805MM-0200	R01-080805MM-201	R01-080805MM-202
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A

DATE SAMPLED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE EXTRACTED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE ANALYZED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008

Notes:

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ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

	SS-53 P2 West	SS-18 P5 East	SS-18 P6 East	SS-18 P7 East	SS-53 P3 North	SS-53 P4 North
SAMPLE LOCATION:	SS-53 P2 West	SS-18 P5 East	SS-18 P6 East	SS-18 P7 East	SS-53 P3 North	SS-53 P4 North
SAMPLE NUMBER:	R01-080805MM-0203	R01-080805MM-0204	R01-080805MM-0205	R01-080805MM-0206	R01-080805MM-0207	R01-080805MM-0208
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A
DATE SAMPLED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE EXTRACTED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE ANALYZED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
SAMPLE LOCATION:	SS-53 P5 North	SS-67 P2 North	SS-67 P2 East	SS-67 P2 West	SS-67 P2 South	SS-67 P3 West
SAMPLE NUMBER:	R01-080805MM-0210	R01-080805MM-0211	R01-080805MM-0212	R01-080805MM-0213	R01-080805MM-0214	R01-080805MM-0215
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	N/A	N/A	N/A	N/A	N/A	N/A
DATE SAMPLED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE EXTRACTED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008
DATE ANALYZED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008

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ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:	SS-67 P3 South	SS-53 6" North	SS-76 1'	SS-76 P2 West	SS-76 P2 South	SS-76 3'
SAMPLE NUMBER:	R01-080805MM-0217	R01-080805MM-0218	R01-080805MM-0219	R01-080805MM-0220	R01-080805MM-0221	R01-080805MM-0222
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	N/A	N/A	1.3	ND 0.3	ND 0.3	0.8
Aroclor-1260	N/A	N/A	0.3	0.133	ND 0.1	ND 0.2

DATE SAMPLED:	9/16/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008
DATE EXTRACTED:	9/16/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008
DATE ANALYZED:	9/16/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008	9/17/2008

SAMPLE LOCATION:	SS-TP 1	SS-09 P2 East	SS-09 P3 East	SS-09 P4 East	SS-09 P2 South	SS-09 P3 South
SAMPLE NUMBER:	R01-080805MM-0223	R01-080805MM-0224	R01-080805MM-0225	R01-080805MM-0226	R01-080805MM-0227	R01-080805MM-0228
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	8.0	41	1.9	2.0	3.7	3.9
Aroclor-1260	0.4	2.9	0.3	0.48	0.5	0.53

DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

Notes:

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Results are reported on a dry weight basis.

ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-09 P4 South		SS-09 P2 West		SS-09 P3 West		SS-09 P4 West		SS-10 P2 East		SS-10 P3 East	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER: R01-080805MM-0229		SAMPLE NUMBER: R01-080805MM-0230		SAMPLE NUMBER: R01-080805MM-0231		SAMPLE NUMBER: R01-080805MM-0232		SAMPLE NUMBER: R01-080805MM-0233		SAMPLE NUMBER: R01-080805MM-0234	
	LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A	
	RL	RL										
Aroclor-1254	1.7	1.7	2.0	3.4	0.9	1.1						
Aroclor-1260	0.24	0.24	0.30	0.43	0.21	0.25						
DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

COMPOUND	SS-10 P4 East		SS-10 P2 South		SS-10 P3 South		SS-10 P4 South		SS-10 P2 West		SS-10 P3 West	
	SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:		SAMPLE LOCATION:	
	SAMPLE NUMBER: R01-080805MM-0235		SAMPLE NUMBER: R01-080805MM-0236		SAMPLE NUMBER: R01-080805MM-0237		SAMPLE NUMBER: R01-080805MM-0238		SAMPLE NUMBER: R01-080805MM-0239		SAMPLE NUMBER: R01-080805MM-0240	
	LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A		LABORATORY NUMBER: N/A	
	RL	RL										
Aroclor-1254	1.1	1.6	0.9	0.9	1.3	2.6						
Aroclor-1260	0.22	0.26	ND	0.2	ND	0.54						
DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

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RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-10 P4 West		SS-111213 1'		SS-14 1'		SS-14 P2 South		SS-14 P3 South		SS-14 P4 South		
	SAMPLE LOCATION:												
	SAMPLE NUMBER: R01-080805MM-0241		SAMPLE NUMBER: R01-080805MM-0242		SAMPLE NUMBER: R01-080805MM-0243		SAMPLE NUMBER: R01-080805MM-0244		SAMPLE NUMBER: R01-080805MM-0245		SAMPLE NUMBER: R01-080805MM-0246		
LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:	
	ND	RL											
Aroclor-1254	ND	0.3	0.09		21		2.5		.28		3.8		
Aroclor-1260	ND	0.2	ND	0.2	1.7		ND	0.5	3.9		3.5		

DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

COMPOUND	SS-14 P2 East		SS-14 P2 West		SS-14 P2 North		SS-R01		SS-R02		SS-R03		
	SAMPLE LOCATION:												
	SAMPLE NUMBER: R01-080805MM-0247		SAMPLE NUMBER: R01-080805MM-0248		SAMPLE NUMBER: R01-080805MM-0249		SAMPLE NUMBER: R01-080805MM-0250		SAMPLE NUMBER: R01-080805MM-0251		SAMPLE NUMBER: R01-080805MM-0252		
LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:		LABORATORY NUMBER:	
	ND	RL											
Aroclor-1254	0.2		3.7		ND	0.3	0.28		1.2		0.9		
Aroclor-1260	ND	0.3	ND	1	ND	0.2	ND	0.8	ND	0.8	ND	0.2	

DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

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mg/Kg = milligram per Kilogram

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

	SS-R04	SS-R05	SS-R06	SS-R07	SS-R08	SS-R09
SAMPLE LOCATION:	SS-R04	SS-R05	SS-R06	SS-R07	SS-R08	SS-R09
SAMPLE NUMBER:	R01-080805MM-0253	R01-080805MM-0254	R01-080805MM-0255	R01-080805MM-0256	R01-080805MM-0257	R01-080805MM-0258
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	0.9	2.5	2.7	3.9	1.7	3.8
Aroclor-1260	ND 0.2	0.36	ND 0.8	0.53	0.24	0.56
DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
	SS-R10	SS-R11	SS-R12	SS-R13	SS-R14	SS-R15
SAMPLE LOCATION:	SS-R10	SS-R11	SS-R12	SS-R13	SS-R14	SS-R15
SAMPLE NUMBER:	R01-080805MM-0259	R01-080805MM-0260	R01-080805MM-0261	R01-080805MM-0262	R01-080805MM-0263	R01-080805MM-0264
LABORATORY NUMBER:	N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL	RL	RL	RL	RL	RL
Aroclor-1254	3.3	8.2	10	28	3.8	12
Aroclor-1260	0.63	0.61	3.5	3.9	3.5	1.6
DATE SAMPLED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE EXTRACTED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008

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SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:		SS-R16	SS-R17	SS-R18	SS-10 ENT 1'	SS-10 ENT 2'	SS-111213 P2 North
SAMPLE NUMBER:		R01-080805MM-0265	R01-080805MM-0266	R01-080805MM-0267	R01-080805MM-0269	R01-080805MM-0270	R01-080805MM-0272
LABORATORY NUMBER:		N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND	RL		RL	RL	RL	RL	RL
Aroclor-1254		3.0	1.3	0.41	4.7	0.23	N/A
Aroclor-1260		0.34	ND 0.8	ND 0.8	0.56	ND 0.2	N/A
DATE SAMPLED:		9/18/2008	9/18/2008	9/18/2008	9/19/2008	9/19/2008	9/19/2008
DATE EXTRACTED:		9/18/2008	9/18/2008	9/18/2008	9/19/2008	9/19/2008	9/19/2008
DATE ANALYZED:		9/18/2008	9/18/2008	9/18/2008	9/19/2008	9/19/2008	9/19/2008
SAMPLE LOCATION:		SS-111213 P2 West	SS-111213 P2 South	SS-111213 P2 East	SS-10 1'	SS-09 6" 2	SS-09 P North
SAMPLE NUMBER:		R01-080805MM-0273	R01-080805MM-0274	R01-080805MM-0275	R01-080805MM-0277	R01-080805MM-0278	R01-080805MM-0279
LABORATORY NUMBER:		N/A	N/A	N/A	AA87103	AA87186	AA87187
COMPOUND	RL		RL	RL	RL	RL	RL
Aroclor-1254		N/A	N/A	N/A	ND 0.1	9.6 2.0	1.9 0.2
Aroclor-1260		N/A	ND	N/A	ND 0.2	1.2 2.0	ND 0.2
DATE SAMPLED:		9/19/2008	9/19/2008	9/19/2008	9/19/2008	9/23/2008	9/23/2008
DATE EXTRACTED:		9/19/2008	9/19/2008	9/19/2008	9/22/2008	9/24/2008	9/24/2008
DATE ANALYZED:		9/19/2008	9/19/2008	9/19/2008	9/22/2008	9/25/2008	9/24/2008

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ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-09 P5 East		SS-67 P4 West		SS-7579 P2 North		SS-7579 P2 South		SS-7579 P2 East		SS-7579 P2 West	
	SAMPLE LOCATION:											
	SAMPLE NUMBER: R01-080805MM-0281		SAMPLE NUMBER: R01-080805MM-0283		SAMPLE NUMBER: R01-080805MM-0284		SAMPLE NUMBER: R01-080805MM-0285		SAMPLE NUMBER: R01-080805MM-0286		SAMPLE NUMBER: R01-080805MM-0287	
LABORATORY NUMBER: AA87188		LABORATORY NUMBER: AA87189		LABORATORY NUMBER: AA87190		LABORATORY NUMBER: AA87191		LABORATORY NUMBER: AA87192		LABORATORY NUMBER: AA87193		
	RL	RL	RL	RL								
Aroclor-1254	1.2	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	0.19	0.2
Aroclor-1260	0.32	0.2	ND	0.2								
DATE SAMPLED:	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008
DATE EXTRACTED:	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008
DATE ANALYZED:	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008

COMPOUND	SS-TP1 3'		SS-TP1 P North		SS-TP1 P South		SS-TP1 P West		SS-TP1 P South		SS-14 2'	
	SAMPLE LOCATION:											
	SAMPLE NUMBER: R01-080805MM-0288		SAMPLE NUMBER: R01-080805MM-0289		SAMPLE NUMBER: R01-080805MM-0290		SAMPLE NUMBER: R01-080805MM-0291		SAMPLE NUMBER: R01-080805MM-0292		SAMPLE NUMBER: R01-080805MM-0293	
LABORATORY NUMBER: AA87194		LABORATORY NUMBER: AA87195		LABORATORY NUMBER: AA87196		LABORATORY NUMBER: AA87197		LABORATORY NUMBER: AA87198		LABORATORY NUMBER: AA87199		
	RL	RL	RL	RL								
Aroclor-1254	1.6	0.2	13	4.0	10	2.0	5.3	0.2	20	4.0	ND	0.2
Aroclor-1260	ND	0.2	1.4	4.0	0.98	2.0	0.46	0.2	2.2	4.0	ND	0.2
DATE SAMPLED:	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008
DATE EXTRACTED:	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008
DATE ANALYZED:	9/24/2008	9/24/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/24/2008	9/24/2008	9/25/2008	9/25/2008	9/24/2008	9/24/2008

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 RL = Reporting Limit  
 mg/Kg = milligram per Kilogram  
 L = Estimated value is below the calibration range.  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-14 P3E		SS-14 P3 West		SS-10 2'		SS-7579 P3 East		SS-7579 P3 South		SS-09 1'	
	RL		RL		RL		RL		RL		RL	
Aroclor-1254	0.69	0.2	ND	0.2	ND	0.2	14		ND	1.0	ND	0.8
Aroclor-1260	ND	0.2	ND	0.2	ND	0.2	ND	0.8	ND	0.5	ND	0.5

DATE SAMPLED:	9/23/2008	9/23/2008	9/24/2008	9/25/2008	9/25/2008	9/25/2008
DATE EXTRACTED:	9/24/2008	9/24/2008	9/25/2008	9/29/2008	9/29/2008	9/29/2008
DATE ANALYZED:	9/24/2008	9/24/2008	9/25/2008	9/29/2008	9/29/2008	9/29/2008

COMPOUND	SS-09 P2 North		SS-09 P6 East		SS-14 P4 East		SS-TP1 P2 North		SS-TP1 P2 South		SS-TP1 P2 West	
	RL		RL		RL		RL		RL		RL	
Aroclor-1254	1.2		1.0		2.3		0.32		11		5.4	
Aroclor-1260	ND	0.8	ND	0.8	ND	0.5	ND	0.5	0.8		ND	1.2

DATE SAMPLED:	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008
DATE EXTRACTED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008
DATE ANALYZED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008

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RL = Reporting Limit

mg/Kg = milligram per Kilogram

L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-TP1 P2 East		SS-TP1 1' North		SS-TP1 1' West		SS-TP1 1' South		SS-TP1 1' East		SS-R1718 1'	
	SAMPLE NUMBER: R01-080805MM-0307		R01-080805MM-0308		R01-080805MM-0309		R01-080805MM-0310		R01-080805MM-0311		R01-080805MM-0312	
	LABORATORY NUMBER: N/A		N/A		N/A		N/A		N/A		N/A	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor-1254	ND	0.3	ND	1.0	34	4.2	0.8	ND	1.0	5.3		
Aroclor-1260	ND	0.2	ND	0.8	2	ND	0.8	ND	0.8	ND	0.8	
DATE SAMPLED:	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/29/2008	9/29/2008	9/29/2008
DATE EXTRACTED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008
DATE ANALYZED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008
DATE SAMPLED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/30/2008	9/30/2008	9/30/2008
DATE EXTRACTED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008
DATE ANALYZED:	9/29/2008	9/29/2008	9/29/2008	9/29/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008

COMPOUND	SS-R1516 1'		SS-R1314 1'		SS-R1112 1'		SS-R0910 1'		SS-R0708 1'		SS-R0506 1'	
	SAMPLE NUMBER: R01-080805MM-0313		R01-080805MM-0314		R01-080805MM-0315		R01-080805MM-0316		R01-080805MM-0317		R01-080805MM-0318	
	LABORATORY NUMBER: N/A		N/A		N/A		N/A		N/A		N/A	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor-1254	4.2	14	4.4	5.6	1.4	0.4						
Aroclor-1260	ND	0.8	ND	2.0	0.79	0.53	0.34	ND	0.5			

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SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:		SS-R0304 1'	SS-R00 1'	SS-R19	SS-R20	SS-R21	SS-R22
SAMPLE NUMBER:		R01-080805MM-0319	R01-080805MM-0320	R01-080805MM-0321	R01-080805MM-0322	R01-080805MM-0323	R01-080805MM-0324
LABORATORY NUMBER:		N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor-1254		1.4	1.2	ND 0.7	ND 0.5	1.2	0.27
Aroclor-1260		ND 0.5	ND 0.6	ND 0.5	ND 0.5	ND	0.5 ND 0.5
DATE SAMPLED:		9/30/2008	9/30/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008
DATE EXTRACTED:		9/30/2008	9/30/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008
DATE ANALYZED:		9/30/2008	9/30/2008	9/29/2008	9/29/2008	9/29/2008	9/29/2008

SAMPLE LOCATION:		SS-09 P7 East	SS-09 P8 East	SS-09 P3 North	SS-09 P4 North	SS-14 P5 East	SS-14 P6 East
SAMPLE NUMBER:		R01-080805MM-0325	R01-080805MM-0326	R01-080805MM-0327	R01-080805MM-0328	R01-080805MM-0329	R01-080805MM-0330
LABORATORY NUMBER:		N/A	N/A	N/A	N/A	N/A	N/A
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor-1254		0.3	0.4	2.3	1.4	1.8	0.9
Aroclor-1260		ND 0.5					
DATE SAMPLED:		9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008
DATE EXTRACTED:		9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008
DATE ANALYZED:		9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008	9/30/2008

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Samples were analyzed EPA Region 1 Standard Operating Procedure (SOP) FLDPCB2.SOP.

Results are reported on a dry weight basis.

ND = Not Detected

RL = Reporting Limit

mg/Kg = milligram per Kilogram

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-14 P7 East		SS-TP1 P3 South		SS-TP1 P4South		SS-R1718 P South		SS-R1516 P South		SS-R1314 P South	
	R01-080805MM-0331		R01-080805MM-0332		R01-080805MM-0333		R01-080805MM-0340		R01-080805MM-0341		R01-080805MM-0342	
	N/A		N/A		N/A		AA87383		AA87384		AA87185	
	RL		RL		RL		RL		RL		RL	
Aroclor- 1242	N/A		N/A		N/A		0.76	0.2	ND	0.2	ND	0.2
Aroclor-1254	0.9		7.4		1.0		1.1	0.2	0.5	0.2	ND	0.2
Aroclor-1260	ND	0.5	0.8		ND	0.5	0.24	0.2	ND	0.2	ND	0.2
DATE SAMPLED:	9/30/2008		9/30/2008		9/30/2008		10/1/2008		10/1/2008		10/1/2008	
DATE EXTRACTED:	9/30/2008		9/30/2008		9/30/2008		10/1/2008		10/1/2008		10/1/2008	
DATE ANALYZED:	9/30/2008		9/30/2008		9/30/2008		10/1/2008		10/1/2008		10/1/2008	
	SS-R1112 P South		SS-R0910 P South		SS-R0708 P South		SS-TP1 2' North		SS-TP1 2' West		SS-TP1 3' South	
	R01-080805MM-0343		R01-080805MM-0344		R01-080805MM-0345		R01-080805MM-0346		R01-080805MM-0347		R01-080805MM-0348	
	AA87386		AA87387		AA87388		AA87694		AA87695		AA87696	
	RL		RL		RL		RL		RL		RL	
Aroclor- 1242	3300	200	1.3	0.2	ND	0.2	1.3	0.2	0.66	0.18	0.69	0.2
Aroclor-1254	ND	200	0.67	0.2	ND	0.2	ND	0.2	1.2	0.18	2.0	0.2
Aroclor-1260	ND	200	ND	0.2	ND	0.2	ND	0.2	ND	0.18	0.73	0.2
DATE SAMPLED:	10/1/2008		10/1/2008		10/1/2008		10/3/2008		10/3/2008		10/3/2008	
DATE EXTRACTED:	10/1/2008		10/1/2008		10/1/2008		10/7/2008		10/7/2008		10/7/2008	
DATE ANALYZED:	10/1/2008		10/1/2008		10/1/2008		10/7/2008		10/7/2008		10/7/2008	

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 mg/Kg = milligram per Kilogram  
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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-TP1 3' East		SS-09 1' North		SS-09 1' East		SS-R0910 P2 South		SS-R1112 P2 South		SS-R1112 P3 South	
	ND	RL	ND	RL	ND	RL	ND	RL	ND	RL	ND	RL
Aroclor- 1242	ND	0.2	ND	0.18	ND	0.22	ND	0.22	ND	0.24	ND	0.22
Aroclor-1254	ND	0.2	ND	0.18	ND	0.22	ND	0.22	ND	0.24	ND	0.22
Aroclor-1260	ND	0.2	ND	0.18	ND	0.22	ND	0.22	ND	0.24	ND	0.22

DATE SAMPLED:	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008
DATE EXTRACTED:	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008
DATE ANALYZED:	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008

COMPOUND	SS-R1314 P2 South		SS-R1314 P3 South		SS-R1516 P2 South		SS-R1718 P2 South		SS-R1718 P3 South		SS-R1112 P South 1'	
	ND	RL	ND	RL								
Aroclor- 1242	ND	0.22	0.33	0.26	ND	0.26	ND	0.22	ND	0.22	3.3	0.22
Aroclor-1254	ND	0.22	ND	0.26	ND	0.26	ND	0.22	ND	0.22	ND	0.22
Aroclor-1260	ND	0.22	ND	0.26	ND	0.26	ND	0.22	ND	0.22	ND	0.22

DATE SAMPLED:	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/7/2009
DATE EXTRACTED:	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/9/2008
DATE ANALYZED:	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/7/2008	10/9/2008

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 ND = Not Detected  
 RL = Reporting Limit  
 mg/Kg = milligram per Kilogram  
 L = Estimated value is below the calibration range.  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SAMPLE LOCATION: SS-R1314 P South 1'		SS-R1718 P South 1'		SS-TP1 3' North		SS-TP1 3' West		SS-09 2' East		SS-R1112 2'	
	SAMPLE NUMBER: R01-080805MM-0361		R01-080805MM-0362		R01-080805MM-0363		R01-080805MM-0364		R01-080805MM-0365		R01-080805MM-0366	
	LABORATORY NUMBER: AA87750		AA87751		AA87752		AA87753		AA87754		AA87863	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor- 1242	ND	0.22	ND	0.18	1.5	0.16	0.41	0.16	ND	0.20	ND	0.40
Aroclor-1254	ND	0.22	0.25	0.18	ND	0.16	0.53	0.16	ND	0.20	7.1	0.40
Aroclor-1260	ND	0.22	ND	0.18	ND	0.16	ND	0.16	ND	0.20	ND	0.40

DATE SAMPLED:	10/7/2009	10/7/2009	10/8/2008	10/8/2008	10/8/2008	10/9/2008
DATE EXTRACTED:	10/9/2008	10/9/2008	10/9/2008	10/9/2008	10/9/2008	10/14/2008
DATE ANALYZED:	10/9/2008	10/9/2008	10/9/2008	10/9/2008	10/9/2008	10/14/2008

COMPOUND	SAMPLE LOCATION: SS-R1112 3'		SS-R0910 2'		SS-R0708 2'		SS-R1112 P3 South 1'		SS-R1112 P3 South 2'		SS-R1314 P3 South 1'	
	SAMPLE NUMBER: R01-080805MM-0367		R01-080805MM-0368		R01-080805MM-0369		R01-080805MM-0370		R01-080805MM-0371		R01-080805MM-0372	
	LABORATORY NUMBER: AA87864		AA87865		AA87866		AA88601		AA88602		AA88603	
	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL
Aroclor- 1242	ND	0.40	ND	0.20	ND	0.20	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1254	ND	0.40	ND	0.20	ND	0.20	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1260	ND	0.40	ND	0.20	ND	0.20	N/A	N/A	N/A	N/A	N/A	N/A

DATE SAMPLED:	10/9/2008	10/10/2008	10/10/2008
DATE EXTRACTED:	10/14/2008	10/14/2008	10/14/2008
DATE ANALYZED:	10/14/2008	10/14/2008	10/14/2008

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mg/Kg = milligram per Kilogram

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

SAMPLE LOCATION:		SS-R1314 P3 South 2'	SS-R1112 P3 South 6"	SS-R1314 P3 South 6"	SS-01 2'	SS-02 2'	SS-03 2'
SAMPLE NUMBER:		R01-080805MM-0373	R01-080805MM-0375	R01-080805MM-0376	R01-080805MM-0377	R01-080805MM-0378	R01-080805MM-0379
LABORATORY NUMBER:		AA88604	AA90310	N/A	N/A	N/A	N/A
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor- 1242		N/A	N/A	N/A	N/A	N/A	N/A
Aroclor-1254		N/A	ND 0.30	ND 0.30	6.5	0.3	ND 0.30
Aroclor-1260		N/A	ND 0.30	ND 0.30	ND 1.00	ND 0.30	ND 0.30
DATE SAMPLED:			11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008
DATE EXTRACTED:			11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008
DATE ANALYZED:			11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008

SAMPLE LOCATION:		SS-03.5 2'	SS-04 2'	SS-05 2'	SS-05.5 2'	SS-06 2'	SS-07 2'
SAMPLE NUMBER:		R01-080805MM-0380	R01-080805MM-0381	R01-080805MM-0382	R01-080805MM-0383	R01-080805MM-0384	R01-080805MM-0385
LABORATORY NUMBER:		N/A	N/A	N/A	N/A	N/A	AA90311
COMPOUND		RL	RL	RL	RL	RL	RL
Aroclor- 1242		N/A	N/A	N/A	N/A	N/A	ND 0.18
Aroclor-1254		25	12	0.3	ND 0.40	9.3	ND 0.18
Aroclor-1260		ND 1.00	ND 1.00	ND 0.30	ND 0.30	ND 1.00	ND 0.18
DATE SAMPLED:		11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008
DATE EXTRACTED:		11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/28/2008
DATE ANALYZED:		11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/24/2008	11/28/2008

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L = Estimated value is below the calibration range.

NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 3  
 POLYCHLORINATED BIPHENYLS IN SOIL FIELD METHOD  
 mg/Kg

COMPOUND	SS-08 2'		SS-04 3'		SS-05 3'		FP-N		FP-S	
	RL		RL		RL		RL		RL	
Aroclor- 1242	N/A		N/A		N/A		N/A		N/A	
Aroclor-1254	0.6						ND	0.4	ND	0.4
Aroclor-1260	ND	0.3					ND	0.3	ND	0.3
<hr/>										
DATE SAMPLED:	11/24/2008		11/26/2008		11/26/2008		11/24/2008		11/24/2008	
DATE EXTRACTED:	11/24/2008		11/26/2008		11/26/2008		11/24/2008		11/24/2008	
DATE ANALYZED:	11/24/2008		11/26/2008		11/26/2008		11/24/2008		11/24/2008	

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NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 4  
 TOTAL METALS IN SOIL  
 mg/Kg

SAMPLE LOCATION:	SS-13 6"	SS-23 6"	SS-10 6"	SS-14 6"	SS-67 6"	SS-76 6"	SS-04 2'											
SAMPLE NUMBER:	R01-080805MM-0109	R01-080805MM-01119	R01-080805MM-0124	R01-080805MM-0158	R01-080805MM-0168	R01-080805MM-0178	R01-080805MM-0184											
LABORATORY NUMBER:	AA86374	AA86384	AA86389	AA86473	AA86483	AA86493	AA87092											
DATE SAMPLED:	09/05/08	09/05/08	09/05/08	09/08/08	09/09/08	09/09/08	09/15/08											
<b>INORGANIC ANALYTES</b>	<b>METHOD</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>	<b>RL</b>	<b>Q</b>			
ALUMINUM	ICP	9000	20	8400	20	6700	19	14000	21	9400	22	7200	21	6900	20			
ANTIMONY	ICP	ND	9.9	ND	9.9	ND	9.6	J1	120	10	J3	ND	11	J1	ND	10	ND	9.8
ARSENIC	ICP	ND	20	ND	20	ND	19	ND	21	ND	22	ND	21	ND	20			
BARIUM	ICP	160	3	62	3	56	2.9	700	3.2	29	3.3	45	3.1	48	2.9			
BERYLLIUM	ICP	ND	0.99	ND	0.99	ND	0.96	ND	1	ND	1.1	ND	1	ND	0.98			
CADMIUM	ICP	16	3	ND	3	24	2.9	30	3.2	ND	3.3	4.9	3.1	ND	2.9			
CALCIUM	ICP	1700	20	5900	20	2100	19	5800	21	790	22	1700	21	1000	98			
CHROMIUM	ICP	27	3	10	3	21	2.9	43	3.2	9.7	3.3	15	3.1	12	2.9			
COBALT	ICP	8.3	3	ND	3	7.1	2.9	10	3.2	3.5	3.3	4.7	3.1	7.6	2.9			
COPPER	ICP	410	3	19	3	190	2.9	J1	12000	3.2	13	3.3	200	3.1	75	2.9		
IRON	ICP	21000	9.9	8300	9.9	27000	9.6	26000	10	J3	11000	11	13000	10	17000	9.8		
LEAD	ICP	410	20	160	20	180	19	3500	21	J3	55	22	370	21	190	9.8	J3	
MAGNESIUM	ICP	2500	20	820	20	2100	19	3400	21	1100	22	1400	21	2500	20			
MANGANESE	ICP	320	2	82	2	380	1.9	J1	360	2.1	220	2.2	J1	190	2.1	260	2	
NICKEL	ICP	28	5.9	6.6	5.9	27	5.8	50	6.3	J3	7	6.5	20	6.2	25	5.9		
SELENIUM	ICP	ND	20	ND	20	ND	19	ND	21	ND	22	ND	21	ND	20			
SILVER	ICP	ND	3	ND	3	ND	2.9	9.7	3.2	J3	ND	3.3	ND	3.1	ND	2.9		
THALLIUM	ICP	ND	20	ND	20	ND	10	ND	21	ND	22	ND	21	ND	20			
VANADIUM	ICP	18	3	14	3	14	2.9	20	3.2	17	3.3	14	3.1	14	2.9			
ZINC	ICP	610	3	87	3	420	2.9	2500	3.2	40	3.3	260	3.1	100	2.9			
DATE PREPARED:	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/16/2008	9/25/2008				
DATE ANALYZED:	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/18/2008	9/30/2008				
DILUTION:	1	1	1	1	1	1	1	1	1	1	1	1	1	1				

ANALYTICAL METHOD  
 ICP = Inductively Coupled Plasma

NOTES

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 mg/Kg = milligrams per-Kilogram  
 RL = Reporting Limit  
 ND = Not Detected  
 J1 = Estimated value due to MS Recovery outside acceptance criteria.  
 J3 = Estimated value due to RPD result outside acceptance criteria.  
 Results are reported on a Dry Weight Basis.  
 Q = Qualifier  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 4  
 TOTAL METALS IN SOIL  
 mg/Kg

SAMPLE LOCATION:	SS-06 2'	SS-19 1'	SS-53 P3 North	SS-67 P2 West	SS-09 P2 West	SS-10 P2 East	SS-111213 1'									
SAMPLE NUMBER:	R01-080805MM-0190	R01-080805MM-0191	R01-080805MM-0207	R01-080805MM-0213	R01-080805MM-0230	R01-080805MM-0233	R01-080805MM-0242									
LABORATORY NUMBER:	AA87093	AA87094	AA87095	AA87096	AA87097	AA87098	AA98099									
DATE SAMPLED:	09/15/08	09/15/08	09/16/08	09/16/08	09/18/08	09/18/08	09/18/08									
INORGANIC ANALYTES	METHOD	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	
ALUMINUM	ICP	5300	19	5700	20	4000	90	4300	20	7000	90	6800	20	7200	20	
ANTIMONY	ICP	ND	9.6	ND	9.9	ND	16	ND	9.9	ND	16	J1	ND	9.8	ND	10
ARSENIC	ICP	ND	19	ND	20	ND	16	ND	20	ND	16	ND	20	ND	20	
BARIUM	ICP	21	2.9	9.1	3	49	16	33	3	47	16	45	2.9	36	3	
BERYLLIUM	ICP	ND	0.96	ND	0.99	ND	6.5	ND	0.99	ND	6.5	ND	0.98	ND	1	
CADMIUM	ICP	ND	2.9	ND	3	4	8.2	ND	3	5.7	8.2	12	2.9	ND	3	
CALCIUM	ICP	640	96	220	99	1300	160	1400	99	1400	160	810	98	1100	100	
CHROMIUM	ICP	6	2.9	3.5	3	33	16	10	3	13	16	20	2.9	7	3	
COBALT	ICP	4.5	2.9	ND	3	3.2	16	4.2	3	5.5	16	6.6	2.9	ND	3	
COPPER	ICP	87	2.9	ND	3	360	16	43	3	560	16	130	2.9	27	3	
IRON	ICP	9600	9.6	3500	9.9	21000	33	33000	9.9	18000	33	21000	9.8	8800	10	
LEAD	ICP	11	9.6	ND	9.9	170	16	360	9.9	130	16	130	9.8	50	10	
MAGNESIUM	ICP	1700	19	510	20	1100	82	1200	20	2400	82	2300	20	1000	20	
MANGANESE	ICP	170	1.9	71	2	210	16	310	2	270	16	300	2	110	2	
NICKEL	ICP	7.4	5.8	ND	5.9	37	16	10	5.9	19	16	18	5.9	ND	6	
SELENIUM	ICP	ND	19	ND	20	ND	33	ND	20	ND	33	ND	20	ND	20	
SILVER	ICP	ND	2.9	ND	3	ND	8.2	ND	3	ND	8.2	ND	2.9	ND	3	
THALLIUM	ICP	ND	19	ND	20	ND	16	ND	20	ND	16	ND	20	ND	20	
VANADIUM	ICP	8.9	2.9	7.1	3	11	8.2	20	3	13	8.2	12	2.9	11	3	
ZINC	ICP	64	2.9	15	3	230	33	85	3	300	33	J1	220	2.9	140	3
DATE PREPARED:		9/25/2008		9/25/2008		9/25/2008		9/25/2008		9/25/2008		9/25/2008		9/25/2008		9/25/2008
DATE ANALYZED:		9/30/2008		9/30/2008		9/30/2008		9/30/2008		9/30/2008		9/30/2008		9/30/2008		9/30/2008
DILUTION:		1		1		1		1		1		1		1		1

**ANALYTICAL METHOD**

ICP = Inductively Coupled Plasma

**NOTES**

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 mg/Kg = milligrams per Kilogram  
 RL = Reporting Limit  
 ND = Not Detected  
 J1 = Estimated value due to MS Recovery outside acceptance criteria.  
 J3 = Estimated value due to RPD result outside acceptance criteria.  
 Results are reported on a Dry Weight Basis.  
 Q = Qualifier  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 4  
 TOTAL METALS IN SOIL  
 mg/Kg

SAMPLE LOCATION:	SS-14 1'	SS-R16	SS-10 ENT 2'	SS-09 6" 2	SS-14 2'	SS-10 2'	SS-09 1'								
SAMPLE NUMBER:	R01-080805MM-0243	R01-080805MM-0265	R01-080805MM-0270	R01-080805MM-0278	R01-080805MM-0293	R01-080805MM-0296	R01-080805MM-0299								
LABORATORY NUMBER:	AA87100	AA87101	AA87102	AA87186	AA87199	AA87261	AA87689								
DATE SAMPLED:	09/18/08	09/18/08	09/19/08	09/23/08	09/23/08	09/24/08	09/25/08								
INORGANIC ANALYTES	METHOD	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q		
ALUMINIUM	ICP	6400	20	13000	40	5100	19	8600	20	N/A		N/A		7400	20
ANTIMONY	ICP	ND	9.8	79	20	ND	9.7	42	10	J3		N/A		ND	10
ARSENIC	ICP	ND	20	ND	40	ND	19	ND	20			N/A		ND	20
BARIUM	ICP	110	2.9	840	6	60	2.9	190	3.1			N/A		61	3
BERYLLIUM	ICP	ND	0.98	ND	2	ND	0.97	ND	1			N/A		ND	1
CADMIUM	ICP	9	2.9	76	6	ND	2.9	64	3.1			N/A		ND	3
CALCIUM	ICP	2100	98	4200	200	4000	97	8700	100	J3		N/A		2500	100
CHROMIUM	ICP	17	2.9	100	6	5.6	2.9	54	3.1			N/A		9.1	3
COBALT	ICP	5.7	2.9	14	6	3.8	2.9	9.7	3.1			N/A		4.9	3
COPPER	ICP	350	2.9	11000	6	54	2.9	1200	3.1			N/A		54	3
IRON	ICP	15000	9.8	61000	20	7500	9.7	41000	10			N/A		13000	10
LEAD	ICP	480	9.8	7500	20	65	9.7	1800	10	J3		N/A		120	10
MAGNESIUM	ICP	1600	20	2200	40	760	19	2900	20			N/A		1200	20
MANGANESE	ICP	200	2	440	4	84	1.9	440	2			N/A		220	2
NICKEL	ICP	21	5.9	1500	12	7.5	5.8	63	6.1			N/A		ND	12
SELENIUM	ICP	ND	20	ND	40	ND	19	ND	10			N/A		ND	20
SILVER	ICP	ND	2.9	24	6	ND	2.9	ND	3.1			N/A		ND	3
THALLIUM	ICP	ND	20	ND	40	ND	19	ND	20			N/A		ND	40
VANADIUM	ICP	23	2.9	25	6	10	2.9	19	3.1			N/A		14	3
ZINC	ICP	680	2.9	3800	6	97	2.9	1300	6.1			N/A		110	6.1
DATE PREPARED:		9/25/2008		9/25/2008		9/25/2008		9/30/2008						10/20/2008	
DATE ANALYZED:		9/30/2008		9/30/2008		9/30/2008		10/6/2008						10/22/2008	
DILUTION:		1		2		1		1						1	

ANALYTICAL METHOD  
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 J1 = Estimated value due to MS Recovery outside acceptance criteria.  
 J3 = Estimated value due to RPD result outside acceptance criteria.  
 Results are reported on a Dry Weight Basis.  
 Q = Qualifier  
 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 4  
 TOTAL METALS IN SOIL  
 mg/Kg

SAMPLE LOCATION:	SS-TP1 1' West	SS-R1314 1'	SS-R0506 1'	SS-TP1 P3 South	SS-09 1' North	SS-R1112 P2 South	SS-09 2' East
SAMPLE NUMBER:	R01-080805MM-0309	R01-080805MM-0314	R01-080805MM-0318	R01-080805MM-0332	R01-080805MM-0350	R01-080805MM-0353	R01-080805MM-0365
LABORATORY NUMBER:	AA87690	N/A	N/A	N/A	AA87698	AA87701	AA87754
DATE SAMPLED:	09/25/08	09/29/08	09/30/08	09/30/08	10/03/08	10/03/08	10/08/08

INORGANIC ANALYTES	METHOD	SS-TP1 1' West		SS-R1314 1'		SS-R0506 1'		SS-TP1 P3 South		SS-09 1' North		SS-R1112 P2 South		SS-09 2' East	
		RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q	RL	Q
ALUMINUM	ICP	8000	20	21000	20	8000	20	14000	20	6600	20	10000	20	13000	20
ANTIMONY	ICP	28	9.9	120	10	ND	10	11	9.9	ND	9.9	ND	9.9	ND	9.9
ARSENIC	ICP	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
BARIUM	ICP	220	3	510	3	55	3	300	3	32	3	49	3	31	3
BERYLLIUM	ICP	ND	0.99	ND	1	ND	1	ND	0.99	ND	0.99	ND	0.99	ND	0.99
CADMIUM	ICP	21	3	110	3	ND	3	27	3	6.7	3	ND	3	ND	3
CALCIUM	ICP	6200	99	14000	100	4500	100	6200	99	1900	99	2000	99	1600	99
CHROMIUM	ICP	38	3	35	3	10	3	37	3	7.4	3	9.3	3	8.5	3
COBALT	ICP	6.1	3	13	3	5.3	3	11	3	ND	3	4.2	3	3	3
COPPER	ICP	2300	3	3900	3	65	3	1600	3	20	3	64	3	9.4	3
IRON	ICP	26000	9.9	20000	10	14000	10	28000	9.9	8300	9.9	18000	9.9	12000	9.9
LEAD	ICP	890	9.9	4300	10	82	10	950	9.9	110	9.9	120	9.9	25	9.9
MAGNESIUM	ICP	2200	20	3700	20	1400	20	2500	20	750	20	830	20	560	20
MANGANESE	ICP	260	2	820	2	180	2	400	2	98	2	250	2	160	2
NICKEL	ICP	34	12	4600	12	ND	12	70	12	ND	12	ND	12	ND	12
SELENIUM	ICP	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20	ND	20
SILVER	ICP	6.3	3	12	3	ND	3	13	3	ND	3	ND	3	ND	3
THALLIUM	ICP	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40	ND	40
VANADIUM	ICP	15	3	48	3	15	3	22	3	11	3	26	3	17	3
ZINC	ICP	1400	5.9	4800	6.1	180	6.1	2100	5.9	110	5.9	210	5.9	30	5.9
DATE PREPARED:		10/20/2008		10/20/2008		10/20/2008		10/20/2008		10/20/2008		10/20/2008		10/20/2008	
DATE ANALYZED:		10/22/2008		10/22/2008		10/22/2008		10/22/2008		10/22/2008		10/22/2008		10/22/2008	
DILUTION:		1		1		1		1		1		1		1	

**ANALYTICAL METHOD**

ICP = Inductively Coupled Plasma

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 NO. = Number

SITE: BIRCH SWAMP ROAD  
 PROJECT NO.: 08050006  
 LABORATORY: OEME

TABLE 4  
 TOTAL METALS IN SOIL  
 mg/Kg

SAMPLE LOCATION:	SS-R0708 2'	SS-R1314 P3 South 2'	SS-R1112 P3 South 6"	SS-07 2'
SAMPLE NUMBER:	R01-080805MM-0369	R01-080805MM-0373	R01-080805MM-0375	R01-080805MM-0385
LABORATORY NUMBER:	AA87866	AA88604	AA90310	AA90311
DATE SAMPLED:	10/10/08	11/05/08	11/24/08	11/24/08

INORGANIC ANALYTES	METHOD	SS-R0708 2'		SS-R1314 P3 South 2'		SS-R1112 P3 South 6"		SS-07 2'	
		RL	Q	RL	Q	RL	Q	RL	Q
ALUMINUM	ICP	10000	20	3500	20	8300	20	6100	640
ANTIMONY	ICP	ND	10 J1	ND	9.8 J1	ND	10 J1	ND	120
ARSENIC	ICP	ND	40	ND	20	ND	40	ND	120
BARIUM	ICP	19	3	13	2.9	23	3	21	120
BERYLLIUM	ICP	ND	1	ND	0.98	ND	2	ND	47
CADMIUM	ICP	ND	3	ND	2.9	ND	3	ND	58
CALCIUM	ICP	1800	100	380	39	410	20	660	1200
CHROMIUM	ICP	8.6	3	ND	2.9	8.6	3	9.4	120
COBALT	ICP	ND	6	ND	2.9	3.2	3	5.4	120
COPPER	ICP	5.6	3 J1	ND	2.9	75	3	12	120
IRON	ICP	11000	10	2000	9.8 J3	14000	10	12000	230
LEAD	ICP	16	10	ND	20	72	10	ND	120
MAGNESIUM	ICP	520	20	270	20	690	20	2000	590
MANGANESE	ICP	61	2	30	2	130	40	220	120
NICKEL	ICP	ND	12	ND	5.9	6.3	6.1	8.5	120
SELENIUM	ICP	ND	20	ND	9.8	ND	20	ND	230
SILVER	ICP	ND	3	ND	2.9	ND	3	ND	58
THALLIUM	ICP	ND	4	ND	39	ND	20	ND	120
VANADIUM	ICP	15	3	5.5	2.9 J3	20	3	12	58
ZINC	ICP	29	3	4.5	2.9	52	3	35	230
DATE PREPARED:		10/27/2008		11/24/2008		12/3/2008		12/3/2008	
DATE ANALYZED:		11/3/2008		11/26/2008		12/10/2008		12/10/2008	
DILUTION:		1		1		1		1	

ANALYTICAL METHOD  
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TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SS-13 6"

SS-23 6"

SS-10 6"

SS-14 6"

SS-67 6"

SS-76 6"

SS-04 2'

SAMPLE NUMBER:

R01-080805MM-0109

R01-080805MM-01119

R01-080805MM-0124

R01-080805MM-0158

R01-080805MM-0168

R01-080805MM-0178

R01-080805MM-0184

LABORATORY NUMBER:

AA86374

AA86384

AA86389

AA86473

AA86483

AA86493

AA87092

COMPOUND	RL	RL	RL	RL	RL	RL	RL	RL
1,2,4,5-Tetrachlorobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,2,4-Trichlorobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,2-Dichlorobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,3-Dichlorobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,3-Dinitrobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,4-Dichlorobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1,4-Naphthoquinone	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
1-Methylnaphthalene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,2'-oxybis(1-Chloropropane)	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,3,4,6-Tetrachlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,4,5-Trichlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,4,6-Trichlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,4-Dichlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,4-Dinitrophenol	ND 520	ND 680	ND 520	N/A	N/A	N/A	ND 340	
2,4-Dinitrotoluene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,4-dimethylphenol	ND 520	ND 680	ND 520	N/A	N/A	N/A	ND 340	
2,6-Dichlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2,6-Dinitrotoluene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Chloronaphthalene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Chlorophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Methylnaphthalene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Methylphenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Nitroaniline	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
2-Nitrophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
3&4-Methylphenol	ND 520	ND 680	ND 520	N/A	N/A	N/A	ND 340	
3,3'-Dichlorobenzidine	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
3-Methylcholanthrene	ND 520	ND 680	ND 520	N/A	N/A	N/A	ND 340	
3-Nitroaniline	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4,6-Dinitro-2-methylphenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Bromophenyl-phenylether	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Chloro-3-methylphenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Chloroaniline	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Chlorophenyl-phenylether	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Nitroaniline	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-Nitrophenol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
4-nitroquinoline-1-oxide	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Acenaphthene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Acenaphthylene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Acetophenone	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Aniline	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Anthracene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Aramite	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Azobenzene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzidine	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzo(a)anthracene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzo(a)pyrene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzo(b)fluoranthene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzo(g,h,i)perylene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzo(k)fluoranthene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Benzoic Acid	ND 260	1,000 340	ND 260	N/A	N/A	N/A	ND 170	
Benzyl Alcohol	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Bis(2-Chloroethyl)ether	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
bis(2-Ethylhexyl)phthalate	800 260	ND 340	450 260	N/A	N/A	N/A	ND 170	
Butylbenzylphthalate	2,500 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Carbazole	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Chlorobenzilate	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Chrysene	ND 260	ND 340	270 260	N/A	N/A	N/A	ND 170	
Di-n-butylphthalate	400 260	ND 340	270 260	N/A	N/A	N/A	ND 170	
Di-n-octyl phthalate	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Dibenz(a,h)anthracene	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Dibenzofuran	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Diethylphthalate	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Dimethyl phthalate	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Dinoseb	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	
Ethyl methanesulfonate	ND 260	ND 340	ND 260	N/A	N/A	N/A	ND 170	

DILUTION FACTOR:

1

1

1

1

PERCENT SOLIDS:

95

61

97

94

DATE SAMPLED:

09/05/08

09/05/08

09/05/08

09/11/08

DATE EXTRACTED:

09/09/08

09/09/08

09/09/08

09/23/08

DATE ANALYZED:

09/11/08

09/11/08

09/11/08

09/24/08

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SS-13 6"

SS-23 6"

SS-10 6"

SS-14 6"

SS-67 6"

SS-76 6"

SS-04 2'

SAMPLE NUMBER:

R01-080805MM-0109

R01-080805MM-01119

R01-080805MM-0124

R01-080805MM-0158

R01-080805MM-0168

R01-080805MM-0178

R01-080805MM-0184

LABORATORY NUMBER:

AA86374

AA86384

AA86389

AA86473

AA86483

AA86493

AA87092

COMPOUND	RL	RL	RL	RL	RL	RL	RL	RL	RL
Fluoranthene	ND 260	ND 340	410	260	N/A	N/A	N/A	N/A	210 170
Fluorene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Hexachlorobenzene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Hexachlorobutadiene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Hexachlorocyclopentadiene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Hexachloroethane	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Hexachloropropene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Indeno(1,2,3-cd)pyrene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Isodrin	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Isophorone	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Isosafrole	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Kepone	ND 520	ND 680	ND	520	N/A	N/A	N/A	N/A	ND 340
Methyl methanesulfonate	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
N-Nitrosodiphenylamine	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
N-nitroso-di-n-propylamine	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
N-nitrosodimethylamine	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Naphthalene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Nitrobenzene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Pentachlorobenzene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Pentachloronitrobenzene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Pentachlorophenol	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Phenacetin	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Phenanthrene	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Phenol	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Pyrene	ND 260	ND 340	360	260	N/A	N/A	N/A	N/A	200 170
Pyridine	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
Safrole	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170
bis(2-Chloroethoxy)methane	ND 260	ND 340	ND	260	N/A	N/A	N/A	N/A	ND 170

DILUTION FACTOR:

1

1

1

1

PERCENT SOLIDS:

95

61

97

94

DATE SAMPLED:

09/05/08

09/05/08

09/05/08

09/11/08

DATE EXTRACTED:

09/09/08

09/09/08

09/09/08

09/23/08

DATE ANALYZED:

09/11/08

09/11/08

09/11/08

09/24/08

## NOTES:

µg/Kg = micrograms per Kilogram.

ND = Indicates the analyte was analyzed for

RL = Reporting Limit

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

## SAMPLE LOCATION:

SS-06 2'	SS-19 1'	SS-53 P3 North	SS-67 P2 West	SS-09 P2 West	SS-10 P2 East	SS-111213 1'
R01-080805MM-0190	R01-080805MM-0191	R01-080805MM-0207	R01-080805MM-0213	R01-080805MM-0230	R01-080805MM-0233	R01-080805MM-0242
AA87093	AA87094	AA87095	AA87096	AA87097	AA87098	AA89099

COMPOUND	RL	RL	RL	RL	RL	RL	RL
1,2,4,5-Tetrachlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,2,4-Trichlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,2-Dichlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,3-Dichlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,3-Dinitrobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,4-Dichlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1,4-Naphthoquinone	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
1-Methylnaphthalene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,2'-oxybis(1-Chloropropane)	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,3,4,6-Tetrachlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,4,5-Trichlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,4,6-Trichlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,4-Dichlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,4-Dinitrophenol	ND 410	ND 440	ND 450	ND 660	ND 320	ND 410	ND 580
2,4-Dinitrotoluene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,4-dimethylphenol	ND 410	ND 440	ND 450	ND 660	ND 320	ND 410	ND 580
2,6-Dichlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2,6-Dinitrotoluene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2-Chloronaphthalene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2-Chlorophenol	ND 200	ND 220	ND 320	ND 330	ND 160	ND 200	ND 290
2-Methylnaphthalene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2-Methylphenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2-Nitroaniline	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
2-Nitrophenol	ND 200	ND 220	ND 230	ND 300	ND 160	ND 200	ND 290
3&4-Methylphenol	ND 410	ND 440	ND 450	ND 660	ND 320	ND 410	ND 580
3,3'-Dichlorobenzidine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
3-Methylcholanthrene	ND 410	ND 440	ND 450	ND 660	ND 320	ND 410	ND 580
3-Nitroaniline	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4,6-Dinitro-2-methylphenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Bromophenyl-phenylether	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Chloro-3-methylphenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Chloroaniline	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Chlorophenyl-phenylether	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Nitroaniline	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-Nitrophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
4-nitroquinoline-1-oxide	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Acenaphthene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Acenaphthylene	ND 200	ND 220	ND 230	410 330	ND 160	ND 200	ND 290
Acetophenone	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Aniline	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Anthracene	ND 200	ND 220	ND 230	360 330	ND 160	ND 200	ND 290
Aramite	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Azobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Benzidine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Benzo(a)anthracene	ND 200	ND 220	560 230	1,400 330	ND 160	ND 200	ND 290
Benzo(a)pyrene	ND 200	ND 220	470 230	1,200 330	ND 160	ND 200	ND 290
Benzo(b)fluoranthene	ND 200	ND 220	530 230	1,700 330	ND 160	ND 200	ND 290
Benzo(g,h,i)perylene	ND 200	ND 220	420 230	1,000 330	ND 160	ND 200	ND 290
Benzo(k)fluoranthene	ND 200	ND 220	500 230	1,300 330	ND 160	ND 200	ND 290
Benzoic Acid	ND 200	ND 220	690 230	ND 330	ND 160	ND 200	ND 290
Benzyl Alcohol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Bis(2-Chloroethyl)ether	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
bis(2-Ethylhexyl)phthalate	290 200	ND 220	1,200 230	360 330	420 160	430 200	ND 290
Butylbenzylphthalate	ND 200	ND 220	880 230	ND 330	ND 160	ND 200	ND 290
Carbazole	ND 200	ND 220	ND 230	490 330	ND 160	ND 200	ND 290
Chlorobenzilate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Chrysene	ND 200	ND 220	730 230	2,600 330	ND 160	ND 200	ND 290
Di-n-butylphthalate	ND 200	ND 220	ND 230	ND 330	ND 160	280 200	ND 290
Di-n-octyl phthalate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Dibenz(a,h)anthracene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Dibenzofuran	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Diethylphthalate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Dimethyl phthalate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Dinoseb	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290
Ethyl methanesulfonate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290

DILUTION FACTOR:	1	1	1	1	1	1	1
PERCENT SOLIDS:	89	87	90	83	93	90	85
DATE SAMPLED:	09/15/08	09/15/08	09/16/08	09/16/08	09/18/08	09/18/08	09/18/08
DATE EXTRACTED:	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08
DATE ANALYZED:	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SAMPLE NUMBER:

LABORATORY NUMBER:

SS-06 2'	SS-19 1'	SS-53 P3 North	SS-67 P2 West	SS-09 P2 West	SS-10 P2 East	SS-111213 1'
R01-080805MM-0190	R01-080805MM-0191	R01-080805MM-0207	R01-080805MM-0213	R01-080805MM-0230	R01-080805MM-0233	R01-080805MM-0242
AA87093	AA87094	AA87095	AA87096	AA87097	AA87098	AA98099

COMPOUND	RL	RL	RL	RL	RL	RL	RL	RL
Fluoranthene	ND 200	ND 220	1,300 230	3,900 330	ND 160	220 200	ND 290	ND 290
Fluorene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Hexachlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Hexachlorobutadiene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Hexachlorocyclopentadiene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Hexachloroethane	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Hexachloropropene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Indeno(1,2,3-cd)pyrene	ND 200	ND 220	350 230	940 330	ND 160	ND 200	ND 290	ND 290
Isodrin	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Isophorone	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Isosafrole	ND 200	ND 220	ND 230	1,000 330	ND 160	ND 200	ND 290	ND 290
Kepone	ND 410	ND 440	ND 450	ND 660	ND 320	ND 410	ND 580	ND 580
Methyl methanesulfonate	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
N-Nitrosodiphenylamine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
N-nitroso-di-n-propylamine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
N-nitrosodimethylamine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Naphthalene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Nitrobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Pentachlorobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Pentachloronitrobenzene	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Pentachlorophenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Phenacetin	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Phenanthrene	ND 200	ND 220	580 230	2,500 330	ND 160	ND 200	ND 290	ND 290
Phenol	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Pyrene	ND 200	ND 220	1,100 230	3,500 330	ND 160	210 200	ND 290	ND 290
Pyridine	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
Safrole	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290
bis(-2-Chloroethoxy)methane	ND 200	ND 220	ND 230	ND 330	ND 160	ND 200	ND 290	ND 290

DILUTION FACTOR:	1	1	1	1	1	1	1
PERCENT SOLIDS:	89	87	90	83	93	90	85
DATE SAMPLED:	09/15/08	09/15/08	09/16/08	09/16/08	09/18/08	09/18/08	09/18/08
DATE EXTRACTED:	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08	09/23/08
DATE ANALYZED:	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08	09/24/08

## NOTES:

µg/Kg = micrograms per Kilogram.

ND = Indicates the analyte was analyzed for

RL = Reporting Limit

TABLE 5

SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD  
CASE: 08050006  
LABORATORY: OEME

SAMPLE LOCATION: SS-14 1' SS-R16 SS-10 ENT 2' SS-09 6" 2 SS-14 2' SS-10 2' SS-09 1'  
SAMPLE NUMBER: R01-080805MM-0243 R01-080805MM-0265 R01-080805MM-0270 R01-080805MM-0278 R01-080805MM-0293 R01-080805MM-0296 R01-080805MM-0299  
LABORATORY NUMBER: AA87100 AA87101 AA87102 AA87186 AA87199 AA87261 AA87689

COMPOUND	RL	RL	RL	RL	RL	RL	RL
1,2,4,5-Tetrachlorobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,2,4-Trichlorobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,2-Dichlorobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,3-Dichlorobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,3-Dinitrobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,4-Dichlorobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1,4-Naphthoquinone	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
1-Methylnaphthalene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,2'-oxybis(1-Chloropropane)	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,3,4,6-Tetrachlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,4,5-Trichlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,4,6-Trichlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,4-Dichlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,4-Dinitrophenol	ND 440	ND 400	ND 490	ND 940	ND 880	ND 880	ND 550
2,4-Dinitrotoluene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,4-dimethylphenol	ND 440	ND 400	ND 490	ND 940	ND 880	ND 880	ND 550
2,6-Dichlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2,6-Dinitrotoluene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Chloronaphthalene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Chlorophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Methylnaphthalene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Methylphenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Nitroaniline	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
2-Nitrophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
3&4-Methylphenol	ND 440	ND 400	ND 490	ND 940	ND 880	ND 880	ND 550
3,3'-Dichlorobenzidine	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
3-Methylcholanthrene	ND 440	ND 400	ND 490	ND 940	ND 880	ND 880	ND 550
3-Nitroaniline	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4,6-Dinitro-2-methylphenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Bromophenyl-phenylether	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Chloro-3-methylphenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Chloroaniline	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Chlorophenyl-phenylether	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Nitroaniline	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-Nitrophenol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
4-nitroquinoline-1-oxide	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Acenaphthene	ND 220	ND 200	ND 240	ND 470	760 440	ND 440	ND 270
Acenaphthylene	ND 220	ND 200	ND 240	ND 470	ND 440	450 440	ND 270
Acetophenone	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Aniline	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Anthracene	ND 220	ND 200	ND 240	ND 470	12,000 440	ND 440	ND 270
Aramite	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Azobenzene	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Benzidine	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Benzo(a)anthracene	510 220	250 200	ND 240	ND 470	4,800 440	1,800 440	310 270
Benzo(a)pyrene	430 220	220 200	ND 240	ND 470	3,200 440	1,300 440	290 270
Benzo(b)fluoranthene	470 220	230 200	ND 240	ND 470	3,300 440	1,300 440	320 270
Benzo(g,h,i)perylene	510 220	ND 200	ND 240	ND 470	2,200 440	810 440	290 270
Benzo(k)fluoranthene	400 220	260 200	ND 240	ND 470	670 440	1,200 440	ND 270
Benzoic Acid	ND 220	ND 200	750 240	ND 470	ND 440	ND 440	ND 270
Benzyl Alcohol	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Bis(2-Chloroethyl)ether	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
bis(2-Ethylhexyl)phthalate	590 220	1,100 200	ND 240	2,100 470	ND 440	ND 440	ND 270
Butylbenzylphthalate	ND 220	280 200	ND 240	ND 470	ND 440	ND 440	ND 270
Carbazole	ND 220	ND 200	ND 240	ND 470	1,700 440	ND 440	ND 270
Chlorobenzilate	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Chrysene	630 220	370 200	290 240	ND 470	5,300 440	2,100 440	460 270
Di-n-butylphthalate	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Di-n-octyl phthalate	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Dibenz(a,h)anthracene	ND 220	ND 200	ND 240	ND 470	850 440	ND 440	ND 270
Dibenzofuran	ND 220	ND 200	ND 240	ND 470	710 440	ND 440	ND 270
Diethylphthalate	ND 220	ND 200	ND 240	3,800 470	2,900 440	2,800 440	650 270
Dimethyl phthalate	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Dinoseb	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270
Ethyl methanesulfonate	ND 220	ND 200	ND 240	ND 470	ND 440	ND 440	ND 270

DILUTION FACTOR:	1	1	1	1	1	1	1
PERCENT SOLIDS:	86	88	73	83	83	82	86
DATE SAMPLED:	09/18/08	09/18/08	09/19/08	09/23/08	09/23/08	09/24/08	09/25/08
DATE EXTRACTED:	09/23/08	09/23/08	09/23/08	09/25/08	09/25/08	09/25/08	10/14/08
DATE ANALYZED:	09/24/08	09/25/08	09/25/08	09/25/08	09/25/08	09/25/08	10/16/08

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SAMPLE NUMBER:

LABORATORY NUMBER:

SS-14 1'	SS-R16	SS-10 ENT 2'	SS-09 6' 2	SS-14 2'	SS-10 2'	SS-09 1'
R01-080805MM-0243	R01-080805MM-0265	R01-080805MM-0270	R01-080805MM-0278	R01-080805MM-0293	R01-080805MM-0296	R01-080805MM-0299
AA87100	AA87101	AA87102	AA87186	AA87199	AA87261	AA87689

COMPOUND	RL	RL	RL	RL	RL	RL	RL							
Fluoranthene	1,000	220	580	200	420	240	480	470	12,000	440	2,900	440	540	270
Fluorene	ND	220	ND	200	ND	240	ND	470	1,300	440	ND	440	ND	270
Hexachlorobenzene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Hexachlorobutadiene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Hexachlorocyclopentadiene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Hexachloroethane	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Hexachloropropene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Indeno(1,2,3-cd)pyrene	310	220	ND	200	ND	240	ND	470	1,900	440	ND	440	ND	270
Isodrin	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Isophorone	ND	220	ND	200	ND	240	ND	470	ND	440	440	440	ND	270
Isosafrole	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Kepone	ND	440	ND	400	ND	490	ND	940	ND	880	ND	880	ND	550
Methyl methanesulfonate	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
N-Nitrosodiphenylamine	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
N-nitroso-di-n-propylamine	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
N-nitrosodimethylamine	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Naphthalene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Nitrobenzene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Pentachlorobenzene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Pentachloronitrobenzene	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Pentachlorophenol	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Phenacetin	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Phenanthrene	510	220	300	200	ND	240	ND	470	11,000	440	590	440	320	270
Phenol	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Pyrene	940	220	490	200	440	240	470	470	9,900	440	3,100	440	890	270
Pyridine	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
Safrole	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270
bis(-2-Chloroethoxy)methane	ND	220	ND	200	ND	240	ND	470	ND	440	ND	440	ND	270

DILUTION FACTOR:	1	1	1	1	1	1	1
PERCENT SOLIDS:	86	88	73	83	83	82	86
DATE SAMPLED:	09/18/08	09/18/08	09/19/08	09/23/08	09/23/08	09/24/08	09/25/08
DATE EXTRACTED:	09/23/08	09/23/08	09/23/08	09/25/08	09/25/08	09/25/08	10/14/08
DATE ANALYZED:	09/24/08	09/25/08	09/25/08	09/25/08	09/25/08	09/25/08	10/16/08

## NOTES:

µg/Kg = micrograms per Kilogram.

ND = Indicates the analyte was analyzed for

RL = Reporting Limit

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

**SITE: BIRCH SWAMP ROAD**  
**CASE: 08050006**  
**LABORATORY: OEME**

**SAMPLE LOCATION:** S-TP1 1' West SS-R1314 1' SS-R0506 1' SS-TP1 P3 South SS-09 1' North SS-R1112 P2 South SS-09 2' East  
**SAMPLE NUMBER:** R01-080805MM-0309 R01-080805MM-0314 R01-080805MM-0318 R01-080805MM-0332 R01-080805MM-0350 R01-080805MM-0353 R01-080805MM-0365  
**LABORATORY NUMBER:** AA87690 N/A N/A N/A N/A AA87698 AA87701 AA87754

COMPOUND	RL	RL	RL	RL	RL	RL	RL
1,2,4,5-Tetrachlorobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,2,4-Trichlorobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,2-Dichlorobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,3-Dichlorobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,3-Dinitrobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,4-Dichlorobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1,4-Naphthoquinone	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
1-Methylnaphthalene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,2'-oxybis(1-Chloropropane)	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,3,4,6-Tetrachlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,4,5-Trichlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,4,6-Trichlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,4-Dichlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,4-Dinitrophenol	ND 550	N/A	N/A	N/A	N/A	N/A	ND 610
2,4-Dinitrotoluene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,4-dimethylphenol	ND 550	N/A	N/A	N/A	N/A	N/A	ND 610
2,6-Dichlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2,6-Dinitrotoluene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Chloronaphthalene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Chlorophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Methylnaphthalene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Methylphenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Nitroaniline	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
2-Nitrophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
3&4-Methylphenol	ND 550	N/A	N/A	N/A	N/A	N/A	ND 610
3,3'-Dichlorobenzidine	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
3-Methylcholanthrene	ND 550	N/A	N/A	N/A	N/A	N/A	ND 610
3-Nitroaniline	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4,6-Dinitro-2-methylphenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Bromophenyl-phenylether	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Chloro-3-methylphenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Chloroaniline	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Chlorophenyl-phenylether	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Nitroaniline	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-Nitrophenol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
4-nitroquinoline-1-oxide	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Acenaphthene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Acenaphthylene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Acetophenone	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Aniline	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Anthracene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Aramite	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Azobenzene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzidine	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzo(a)anthracene	630 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzo(a)pyrene	690 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzo(b)fluoranthene	730 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzo(g,h,i)perylene	720 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzo(k)fluoranthene	680 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzoic Acid	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Benzyl Alcohol	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Bis(2-Chloroethyl)ether	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
bis(2-Ethylhexyl)phthalate	1,900 280	N/A	N/A	N/A	N/A	N/A	ND 310
Butylbenzylphthalate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Carbazole	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Chlorobenzilate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Chrysene	820 280	N/A	N/A	N/A	N/A	N/A	ND 310
Di-n-butylphthalate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Di-n-octyl phthalate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Dibenz(a,h)anthracene	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Dibenzofuran	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Diethylphthalate	480 280	N/A	N/A	N/A	N/A	N/A	ND 310
Dimethyl phthalate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Dinoseb	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310
Ethyl methanesulfonate	ND 280	N/A	N/A	N/A	N/A	N/A	ND 310

**DILUTION FACTOR:** 1  
**PERCENT SOLIDS:** 86  
**DATE SAMPLED:** 09/25/08  
**DATE EXTRACTED:** 10/14/08  
**DATE ANALYZED:** 10/16/08

1  
77  
10/07/08  
10/14/08  
10/24/08

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SAMPLE NUMBER:

LABORATORY NUMBER:

S-TP1 1' West

SS-R1314 1'

SS-R0506 1'

SS-TP1 P3 South

SS-09 1' North

SS-R1112 P2 South

SS-09 2' East

R01-080805MM-0309

R01-080805MM-0314

R01-080805MM-0318

R01-080805MM-0332

R01-080805MM-0350

R01-080805MM-0353

R01-080805MM-0365

AA87690

N/A

N/A

N/A

AA87698

AA87701

AA87754

COMPOUND			RL		RL		RL		RL		RL
Fluoranthene	1,100	280	N/A	ND	310						
Fluorene	ND	280	N/A	ND	310						
Hexachlorobenzene	ND	280	N/A	ND	310						
Hexachlorobutadiene	ND	280	N/A	ND	310						
Hexachlorocyclopentadiene	ND	280	N/A	ND	310						
Hexachloroethane	ND	280	N/A	ND	310						
Hexachloropropene	ND	280	N/A	ND	310						
Indeno(1,2,3-cd)pyrene	610	280	N/A	ND	310						
Isodrin	ND	280	N/A	ND	310						
Isophorone	ND	280	N/A	ND	310						
Isosafrole	ND	280	N/A	ND	310						
Kepone	ND	550	N/A	ND	610						
Methyl methanesulfonate	ND	280	N/A	ND	310						
N-Nitrosodiphenylamine	ND	280	N/A	ND	310						
N-nitroso-di-n-propylamine	ND	280	N/A	ND	310						
N-nitrosodimethylamine	ND	280	N/A	ND	310						
Naphthalene	ND	280	N/A	ND	310						
Nitrobenzene	ND	280	N/A	ND	310						
Pentachlorobenzene	ND	280	N/A	ND	310						
Pentachloronitrobenzene	ND	280	N/A	ND	310						
Pentachlorophenol	ND	280	N/A	ND	310						
Phenacetin	ND	280	N/A	ND	310						
Phenanthrene	600	280	N/A	ND	310						
Phenol	ND	280	N/A	ND	310						
Pyrene	1,400	280	N/A	ND	310						
Pyridine	ND	280	N/A	ND	310						
Safrole	ND	280	N/A	ND	310						
bis(-2-Chloroethoxy)methane	ND	280	N/A	ND	310						

DILUTION FACTOR: 1

PERCENT SOLIDS: 86

DATE SAMPLED: 09/25/08

DATE EXTRACTED: 10/14/08

DATE ANALYZED: 10/16/08

1

77

10/07/08

10/14/08

10/24/08

**NOTES:**

µg/Kg = micrograms per Kilogram.

ND = Indicates the analyte was analyzed for

RL = Reporting Limit

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

**SITE: BIRCH SWAMP ROAD**  
**CASE: 08050006**  
**LABORATORY: OEME**

**SAMPLE LOCATION:** SS-R0708 2'    SS-R1314 P3 South 2'    SS-R1112 P3 South 6"    SS-07 2'  
**SAMPLE NUMBER:** R01-080805MM-0369    R01-080805MM-0373    R01-080805MM-0375    R01-080805MM-0385  
**LABORATORY NUMBER:** AA87866    AA88604    AA90310    AA90311

COMPOUND	RL	RL	RL	RL
1,2,4,5-Tetrachlorobenzene	ND 290	N/A	ND 390	ND 300
1,2,4-Trichlorobenzene	ND 290	N/A	ND 390	ND 300
1,2-Dichlorobenzene	ND 290	N/A	ND 390	ND 300
1,3-Dichlorobenzene	ND 290	N/A	ND 390	ND 300
1,3-Dinitrobenzene	ND 290	N/A	ND 390	ND 300
1,4-Dichlorobenzene	ND 290	N/A	ND 390	ND 300
1,4-Naphthoquinone	ND 290	N/A	ND 390	ND 300
1-Methylnaphthalene	ND 290	N/A	ND 390	ND 300
2,2'-oxybis(1-Chloropropane)	ND 290	N/A	ND 390	ND 300
2,3,4,6-Tetrachlorophenol	ND 290	N/A	ND 390	ND 300
2,4,5-Trichlorophenol	ND 290	N/A	ND 390	ND 300
2,4,6-Trichlorophenol	ND 290	N/A	ND 390	ND 300
2,4-Dichlorophenol	ND 290	N/A	ND 390	ND 300
2,4-Dinitrophenol	ND 580	N/A	ND 780	ND 600
2,4-Dinitrotoluene	ND 290	N/A	ND 390	ND 300
2,4-dimethylphenol	ND 580	N/A	ND 780	ND 600
2,6-Dichlorophenol	ND 290	N/A	ND 390	ND 300
2,6-Dinitrotoluene	ND 290	N/A	ND 390	ND 300
2-Chloronaphthalene	ND 290	N/A	ND 390	ND 300
2-Chlorophenol	ND 290	N/A	ND 390	ND 300
2-Methylnaphthalene	ND 290	N/A	ND 390	ND 300
2-Methylphenol	ND 290	N/A	ND 390	ND 300
2-Nitroaniline	ND 290	N/A	ND 390	ND 300
2-Nitrophenol	ND 290	N/A	ND 390	ND 300
3&4-Methylphenol	ND 580	N/A	ND 780	ND 600
3,3'-Dichlorobenzidine	ND 290	N/A	ND 390	ND 300
3-Methylcholanthrene	ND 580	N/A	ND 780	ND 600
3-Nitroaniline	ND 290	N/A	ND 390	ND 300
4,6-Dinitro-2-methylphenol	ND 290	N/A	ND 390	ND 300
4-Bromophenyl-phenylether	ND 290	N/A	ND 390	ND 300
4-Chloro-3-methylphenol	ND 290	N/A	ND 390	ND 300
4-Chloroaniline	ND 290	N/A	ND 390	ND 300
4-Chlorophenyl-phenylether	ND 290	N/A	ND 390	ND 300
4-Nitroaniline	ND 290	N/A	ND 390	ND 300
4-Nitrophenol	ND 290	N/A	ND 390	ND 300
4-nitroquinoline-1-oxide	ND 290	N/A	ND 390	ND 300
Acenaphthene	ND 290	N/A	ND 390	ND 300
Acenaphthylene	ND 290	N/A	ND 390	ND 300
Acetophenone	ND 290	N/A	ND 390	ND 300
Aniline	ND 290	N/A	ND 390	ND 300
Anthracene	ND 290	N/A	ND 390	ND 300
Aramite	ND 290	N/A	ND 390	ND 300
Azobenzene	ND 290	N/A	ND 390	ND 300
Benzidine	ND 290	N/A	ND 390	ND 300
Benzo(a)anthracene	ND 290	N/A	ND 390	ND 300
Benzo(a)pyrene	ND 290	N/A	ND 390	ND 300
Benzo(b)fluoranthene	ND 290	N/A	ND 390	ND 300
Benzo(g,h,i)perylene	ND 290	N/A	ND 390	ND 300
Benzo(k)fluoranthene	ND 290	N/A	ND 390	ND 300
Benzoic Acid	ND 290	N/A	ND 390	ND 300
Benzyl Alcohol	ND 290	N/A	ND 390	ND 300
Bis(2-Chloroethyl)ether	ND 290	N/A	ND 390	ND 300
bis(2-Ethylhexyl)phthalate	ND 290	N/A	ND 390	ND 300
Butylbenzylphthalate	ND 290	N/A	ND 390	ND 300
Carbazole	ND 290	N/A	ND 390	ND 300
Chlorobenzilate	ND 290	N/A	ND 390	ND 300
Chrysene	ND 290	N/A	ND 390	ND 300
Di-n-butylphthalate	ND 290	N/A	ND 390	ND 300
Di-n-octyl phthalate	ND 290	N/A	ND 390	ND 300
Dibenz(a,h)anthracene	ND 290	N/A	ND 390	ND 300
Dibenzofuran	ND 290	N/A	ND 390	ND 300
Diethylphthalate	ND 290	N/A	ND 390	ND 300
Dimethyl phthalate	ND 290	N/A	ND 390	ND 300
Dinoseb	ND 290	N/A	ND 390	ND 300
Ethyl methanesulfonate	ND 290	N/A	ND 390	ND 300

<b>DILUTION FACTOR:</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>PERCENT SOLIDS:</b>	<b>81</b>	<b>77</b>	<b>87</b>
<b>DATE SAMPLED:</b>	<b>10/10/08</b>	<b>11/24/08</b>	<b>11/24/08</b>
<b>DATE EXTRACTED:</b>	<b>10/21/08</b>	<b>12/03/08</b>	<b>12/03/08</b>
<b>DATE ANALYZED:</b>	<b>11/17/08</b>	<b>12/05/08</b>	<b>12/05/08</b>

TABLE 5

**SEMIVOLATILE ORGANIC COMPOUND SOIL ANALYSIS**  
(micrograms/Kilogram)

SITE: BIRCH SWAMP ROAD

CASE: 08050006

LABORATORY: OEME

SAMPLE LOCATION:

SS-R0708 2'    SS-R1314 P3 South 2'    SS-R1112 P3 South 6"    SS-07 2'

SAMPLE NUMBER:

R01-080805MM-0369    R01-080805MM-0373    R01-080805MM-0375    R01-080805MM-0385

LABORATORY NUMBER:

AA87866    AA88604    AA90310    N/A

COMPOUND	RL	RL	RL	RL
Fluoranthene	ND 290	N/A	ND 390	ND 300
Fluorene	ND 290	N/A	ND 390	ND 300
Hexachlorobenzene	ND 290	N/A	ND 390	ND 300
Hexachlorobutadiene	ND 290	N/A	ND 390	ND 300
Hexachlorocyclopentadiene	ND 290	N/A	ND 390	ND 300
Hexachloroethane	ND 290	N/A	ND 390	ND 300
Hexachloropropene	ND 290	N/A	ND 390	ND 300
Indeno(1,2,3-cd)pyrene	ND 290	N/A	ND 390	ND 300
Isodrin	ND 290	N/A	ND 390	ND 300
Isophorone	ND 290	N/A	ND 390	ND 300
Isosafrole	ND 290	N/A	680 390	ND 300
Kepone	ND 580	N/A	ND 780	ND 600
Methyl methanesulfonate	ND 290	N/A	ND 390	ND 300
N-Nitrosodiphenylamine	ND 290	N/A	ND 390	ND 300
N-nitroso-di-n-propylamine	ND 290	N/A	ND 390	ND 300
N-nitrosodimethylamine	ND 290	N/A	ND 390	ND 300
Naphthalene	ND 290	N/A	ND 390	ND 300
Nitrobenzene	ND 290	N/A	ND 390	ND 300
Pentachlorobenzene	ND 290	N/A	ND 390	ND 300
Pentachloronitrobenzene	ND 290	N/A	ND 390	ND 300
Pentachlorophenol	ND 290	N/A	ND 390	ND 300
Phenacetin	ND 290	N/A	ND 390	ND 300
Phenanthrene	ND 290	N/A	ND 390	ND 300
Phenol	ND 290	N/A	ND 390	ND 300
Pyrene	ND 290	N/A	ND 390	ND 300
Pyridine	ND 290	N/A	ND 390	ND 300
Safrole	ND 290	N/A	ND 390	ND 300
bis(-2-Chloroethoxy)methane	ND 290	N/A	ND 390	ND 300

DILUTION FACTOR:	1	1	1
PERCENT SOLIDS:	81	77	87
DATE SAMPLED:	10/10/08	11/24/08	11/24/08
DATE EXTRACTED:	10/21/08	12/03/08	12/03/08
DATE ANALYZED:	11/17/08	12/05/08	12/05/08

## NOTES:

µg/Kg = micrograms per Kilogram.

ND = Indicates the analyte was analyzed for

RL = Reporting Limit

**Table 6**  
**Waste Disposal Summary Table**  
**Birch Swamp Road Site**  
**TDD NO.: 08-05-0006, TASK NO.: 0416**

Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	21.44 T	003432851	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	21.21 T	003432852	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.02 T	003432853	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	25.42 T	003432854	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	22.42 T	003432855	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/04/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.83 T	003432856	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	24.21 T	003432862	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.13 T	003432861	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.85 T	003432860	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.96 T	003432857	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	24.84 T	003432858	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032

RQ = Reportable Quantity.  
ppm = parts per million  
DT = Dump Truck  
T = tons

**Table 6**  
**Waste Disposal Summary Table**  
**Birch Swamp Road Site**  
**TDD NO.: 08-05-0006, TASK NO.: 0416**

Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
11/05/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.25 T	003432859	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	21.51 T	003432872	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.46 T	003432873	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	22.88 T	003432874	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	24.68 T	003432869	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	22.60 T	003432870	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/06/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	25.33 T	003432871	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/07/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	24.49 T	003432877	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/07/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	25.36 T	003432878	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/07/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	23.59 T	003432879	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-001	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307

RQ = Reportable Quantity  
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DT = Dump Truck  
T = tons

**Table 6  
Waste Disposal Summary Table  
Birch Swamp Road Site  
TDD NO.: 08-05-0006, TASK NO.: 0416**

Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-002	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-003	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-004	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-005	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-006	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-007	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/17/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-008	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-009	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-010	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-011	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-012	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307

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ppm = parts per million  
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**Table 6**  
**Waste Disposal Summary Table**  
**Birch Swamp Road Site**  
**TDD NO.: 08-05-0006, TASK NO.: 0416**

Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-013	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-014	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-015	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/18/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-016	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-017	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	22.80 T	003432875	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-018	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-019	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-020	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-021	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-022	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307

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**Table 6**  
**Waste Disposal Summary Table**  
**Birch Swamp Road Site**  
**TDD NO.: 08-05-0006, TASK NO.: 0416**

Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-023	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/19/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-024	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/20/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-025	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/20/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-026	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/20/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-027	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/20/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-028	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/21/2008	RQ, Hazardous Waste Solid, N.O.S. (Lead), 9, NA3077, PG III, D008	1	DT	25.73 T	003432876	American Waste	Clean Earth, Inc. 115 Jacobus Avenue South Kearny, NJ 07032
11/21/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	35 T	Birch-ESMINH-029	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/21/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-030	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
11/21/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-031	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
12/02/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-032	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307

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 ppm = parts per million  
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**Table 6  
Waste Disposal Summary Table  
Birch Swamp Road Site  
TDD NO.: 08-05-0006, TASK NO.: 0416**

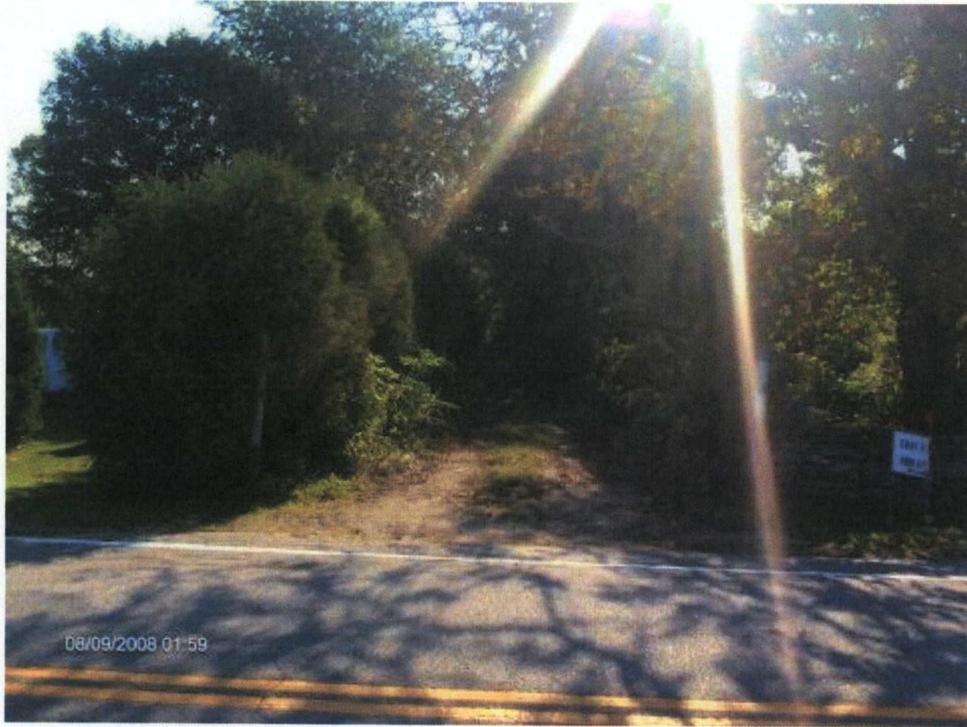
Date	Description	Containers		Total Quantity	Manifest No.	Transporter	Facility
		No.	Type				
12/02/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-033	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307
12/02/2008	Lead and PCB-contaminated soils; PCBs less than 50 ppm	1	DT	30 T	Birch-ESMINH-034	American Waste	Environmental Soil Management, Inc. 67 International Drive Loudon, NH 03307

RQ = Reportable Quantity  
ppm = parts per million  
DT = Dump Truck  
T = tons

## Appendix C

### Photodocumentation Log

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the entrance to the site from Birch Swamp Road before any brush was cleared. Photograph taken facing east. **Note: Disregard Date and Time stamp on all photographs due to fault on camera at time of origination.**

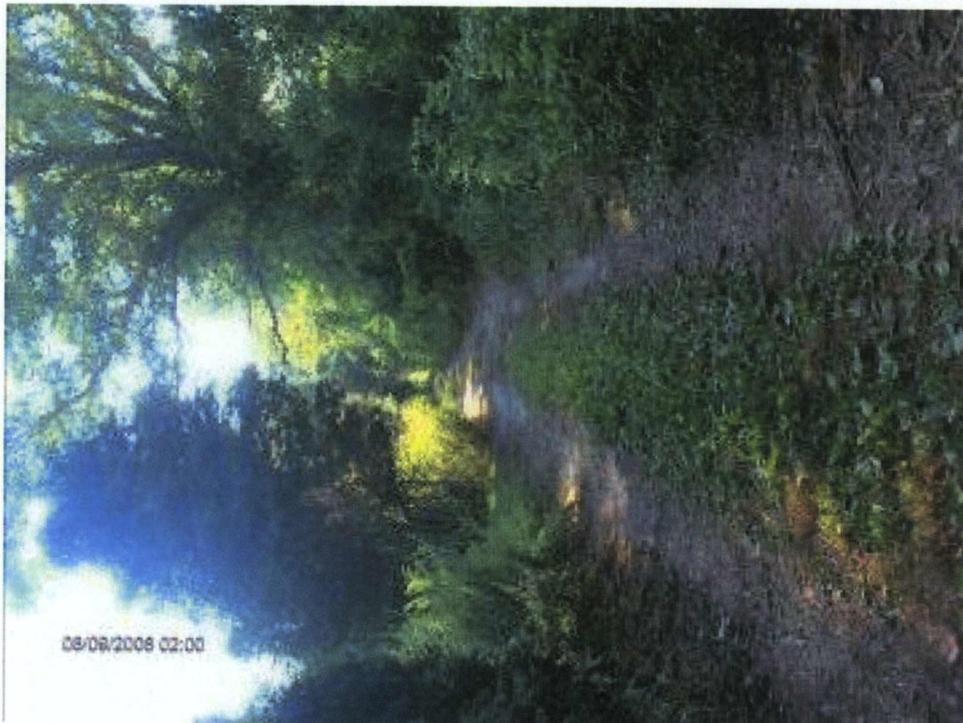
**DATE:** 26 August 2008

**TIME:** 0900 hours

**PHOTOGRAPHER:** D. Willette

**CAMERA:** Nikon CoolPix 3100

TOP



**SCENE:** View of the access road leading to the site before any brush was cleared. Photograph taken facing east.

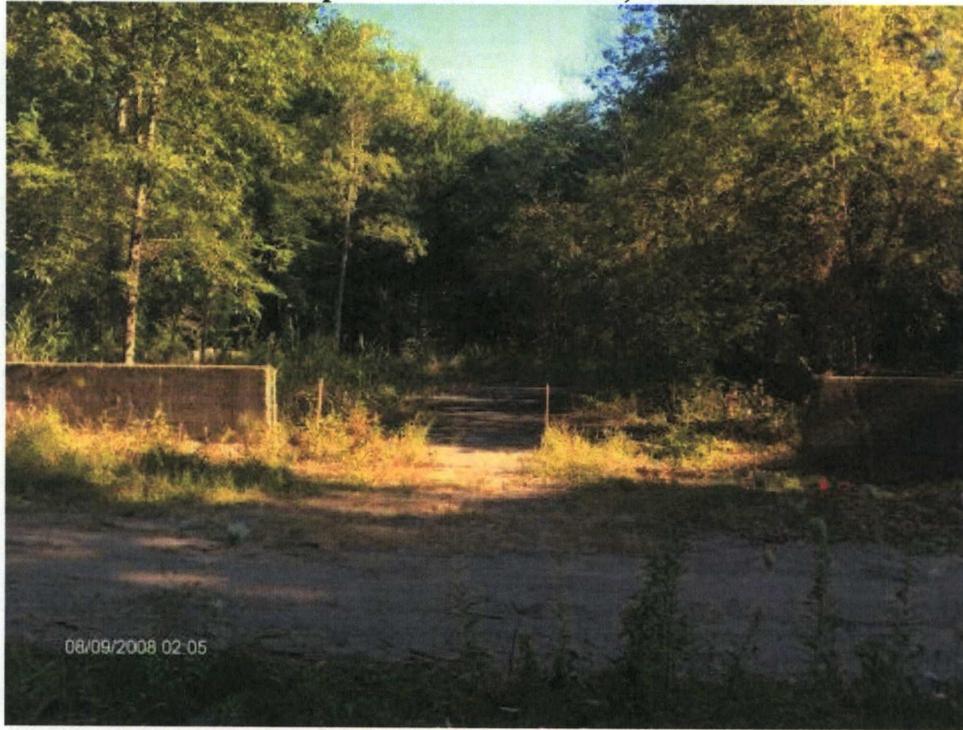
**DATE:** 26 August 2008

**TIME:** 0905 hours

**PHOTOGRAPHER:** D. Willette

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the onsite foundation of the building that had historically been used as an ice packing house. Photograph taken prior to any brush being cleared. Photograph taken facing north.

**DATE:** 26 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 0920 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of the area to the east of the foundation prior to any brush being cleared. Photograph was taken facing north.

**DATE:** 26 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 0923 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



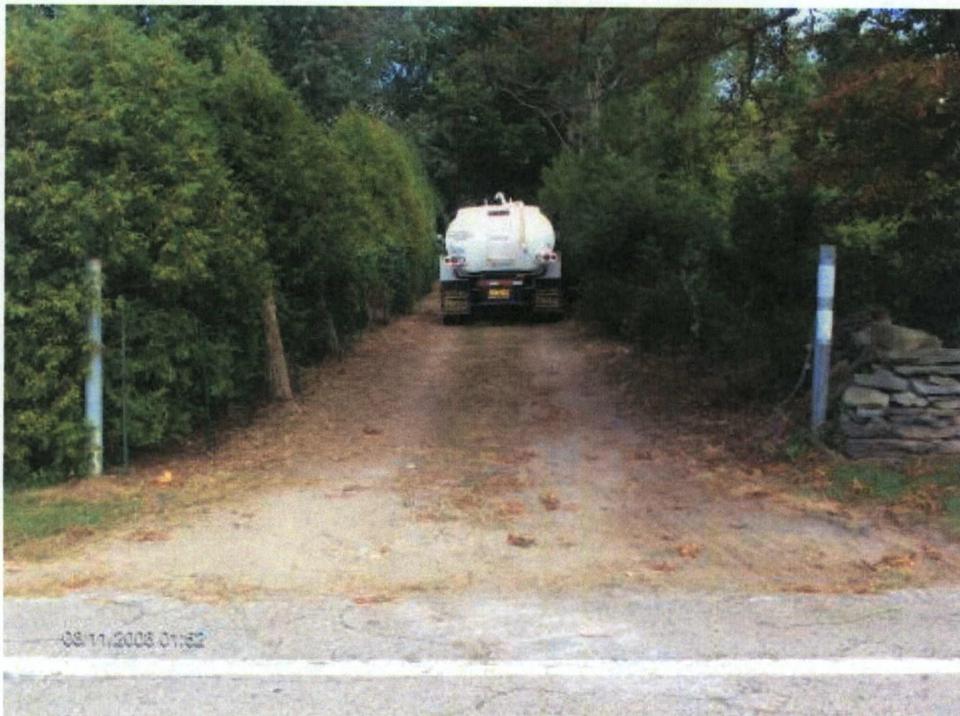
**SCENE:** View of the staging area and site office (box-truck), located further east of the foundation along the access road. Photograph taken facing north.

**DATE:** 26 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1200

**CAMERA:** Nikon CoolPix 3100



**SCENE** View of the entrance to the site from Birch Swamp Road after the brush had been cleared and fencing installed was installed. Photograph taken facing east.

**DATE:** 29 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1530 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the fence installed along the north side of the access road, where it borders the Fortin property, to help prevent animals from crossing the roadway. Photograph taken facing north.

**DATE:** 29 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1535 hours

**CAMERA:** Nikon CoolPix 3100

TOP



**SCENE:** View of the access road leading to the site after being cleared of brush and debris. Photograph taken facing east.

**DATE:** 29 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1520 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of SS-13 (left), and 11 and 12 combined (right) prior to excavation. Photograph taken facing south.

**DATE:** 29 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1500 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of SS-14 prior to excavation. Photograph taken facing north.

**DATE:** 29 August 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1505 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of SS-19 after being excavated to a depth of 6 inches. Photograph taken facing east.

**DATE:** 08 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1300 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of SS-18 after being excavated to a depth of 6 inches. Photograph taken facing north.

**DATE:** 08 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1305 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of SS-53 after being excavated to a depth of 6 inches. Photograph taken facing south.

**DATE:** 08 September 2008  
**PHOTOGRAPHER:** D. Willette

**TIME:** 1310 hours  
**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of SS-14 after it was excavated to a depth of 6 inches. Photograph taken facing north.

**DATE:** 08 September 2008  
**PHOTOGRAPHER:** D. Willette

**TIME:** 1325 hours  
**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of SS-76 after being excavated to a depth of 6 inches. Photograph taken facing south.

**DATE:** 08 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1320 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of Test Pit No. 1 being excavated to an initial depth of 6 inches under the supervision of Shaw UXO experts. Photograph taken facing southeast.

**DATE:** 17 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1030 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of Test Pit No. 1 excavated to a depth of 3 feet under the supervision of Shaw UXO experts. Photograph taken facing southeast.

**DATE:** 17 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1105 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of Test Pit No. 2/ SS-76 being excavated to 1 foot under the supervision of Shaw UXO experts. Photograph taken facing southeast.

**DATE:** 17 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1320 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the dirt, tires, and metal debris stockpile from Test Pit No. 2. Note: Shaw UXO Experts in the background monitoring excavation activities. Photograph taken facing north.

**DATE:** 17 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1405 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of a large metal turbine exhumed from SS-14 approximately 2 feet below the surface. Photograph taken facing east.

**DATE:** 23 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1135 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the access road being excavated to a depth of 1 foot. Photograph taken facing east.

**DATE:** 29 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1400 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of metal rimmed tire and windmill being exhumed from the roadway at a depth of 2 feet. Photograph taken facing northeast.

**DATE:** 30 September 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1100 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the expansion of SS-14 to the east and excavated to a depth of 3 feet. Photograph taken facing north.

**DATE:** 03 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1100 hours

**CAMERA:** Nikon CoolPix 3100



TOP

**SCENE:** View of a second metal turbine exhumed from SS-14 from a depth of approximately 3 feet. Photograph taken facing northeast.

**DATE:** 3 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1110 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the lead-contaminated soil stockpiled in the southwest corner of the foundation. Photograph taken facing northeast.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1030 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of the lead- and PCB-contaminated soil stockpile in the southeast corner of the foundation. Photograph taken facing northeast.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1042 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the lead- and PCB-contaminated soil (left) in the northwest corner of the foundation and the lead-contaminated soil (right) in the north east corner of the foundation. Photograph taken facing north.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1050 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of the stockpile of metal and tire debris exhumed from the area to the east of the foundation. Photograph taken facing east.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1055 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of SS-11, -12, and -13 after being excavated to 1 foot, clean, and then backfilled with road-base fill material. Photograph taken facing south.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1105 hours

**CAMERA:** Nikon CoolPix 3100

TOP



**SCENE:** View of SS-R1112 and R1314 excavated to a depth of 1 foot. Photograph taken facing east.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1130 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**

TOP



**SCENE:** View of the access road being backfilled with road-base fill material after being excavated to a depth of 2 feet. Photograph taken facing west.

**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1145 hours

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of metal rimmed tires exhumed from Test Pit No. 1 at a depth of 3 feet. Photograph taken facing north.

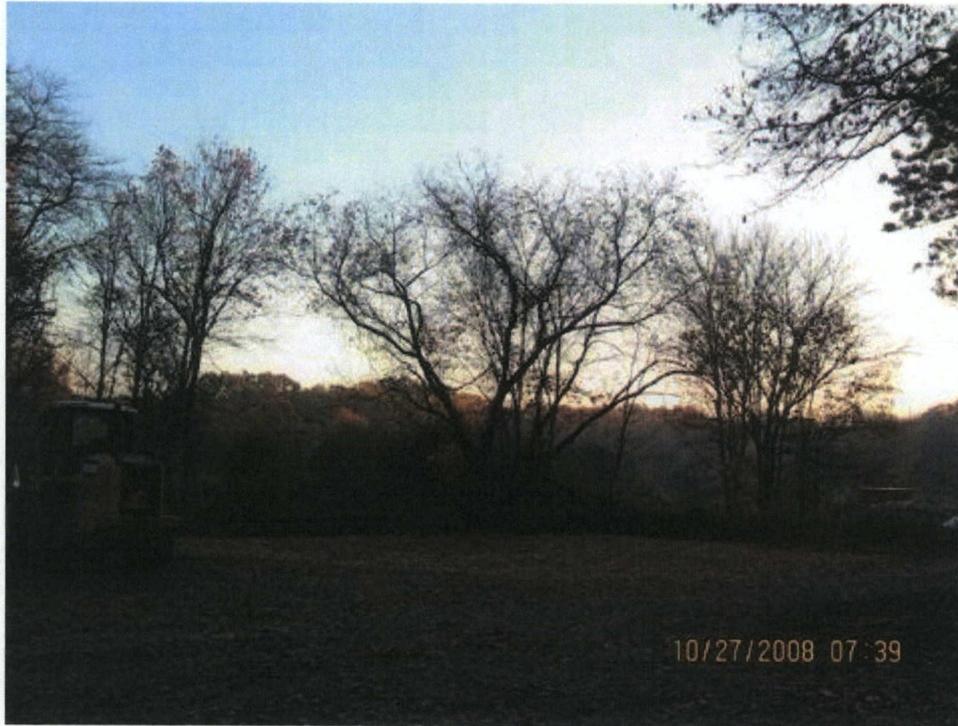
**DATE:** 08 October 2008

**PHOTOGRAPHER:** D. Willette

**TIME:** 1330 hours

**CAMERA:** Nikon CoolPix 3100

**PHOTOGRAPHY LOG SHEET**  
**Birch Swamp Road Site • Warren, Rhode Island**



**SCENE:** View of the finalized roadway and the area to the east of the foundation backfilled with loam. Hay and seed can be seen on top of the area. Photograph taken facing northeast.

**DATE:** 27 October 2008

**PHOTOGRAPHER:** M. Morash

**TIME:** 1939

**CAMERA:** Nikon CoolPix 3100



**SCENE:** View of the inside and outside of the foundation area completely backfilled. Photograph taken facing northeast.

**DATE:** 11 December 2008

**PHOTOGRAPHER:** M. Morash

**TIME:** 0902 hours

**CAMERA:** Nikon CoolPix 3100