REMEDIAL INVESTIGATION
PHASE 1 DATA EVALUATION REPORT

Revision 0

Southeastern Wood Preserving Superfund Site
Canton, Madison County, Mississippi

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Acronyms and Abbreviations

BaP	benzo(a)pyrene
Black & Veatch	Black & Veatch Special Projects Corp.
bls	below land surface
BOA	Basic Ordering Agreement
CDDs	chlorinated dibenzo-p-dioxins
CDFs	chlorinated dibenzofurans
CLP	Contract Laboratory Program
CMU	Canton Municipal Utilities
cPAH	carcinogenic polycyclic aromatic hydrocarbon
CSM	Conceptual Site Model
cy	cubic yard
DER	Data Evaluation Report
Dickson	Dickson Treating Company
DO	dissolved oxygen
DPT	direct push technology
DQO	data quality objectives
EPA	Environmental Protection Agency
ERRS	Emergency and Rapid Response Services
ESI	Expanded Site Investigation
FSP	field sampling plan
ft	feet/foot
gpm	gallon per minute
HMW	high molecular weight
ID	inner diameter
IP	International Paper
LDR	land disposal restriction
LMW	low molecular weight
MBPC	Mississippi Bureau of Pollution Control
MDEQ	Mississippi Department of Environmental Quality
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MNA	monitored natural attenuation
msl	mean sea level
NAPL	non-aqueous phase liquid
NFRAP	No further remedial action planned

Acronyms and Abbreviations (Continued)

ng/kg	nanograms per kilogram
NPL	National Priorities List
NRWQC	National Recommended Water Quality Criteria
ORP	oxidation reduction potential
PAH	polycyclic aromatic hydrocarbon
PCP	pentachlorophenol
PID	photoionization detector
PRG	preliminary remediation goal
QAPP	quality assurance project plan
RAC II	Remedial Action Contract
RI	Remedial Investigation
ROD	Record of Decision
RSL	Regional Screening Level
SAP	Sampling and Analysis Plan
SESD	Science and Ecosystem Support Division
SI	Site Inspection
SLERA	screening-level ecological risk assessment
SVOC	semi-volatile organic compound
SWP	Southeastern Wood Preserving Site
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TEF	toxicity equivalence factor
TEQ	toxicity equivalent
Tetra Tech	Tetra Tech EM Inc
TO	Task Order
TOC	Total organic carbon
USCS	United Soil Classification System
VOC	volatile organic compound
WHO	World Health Organization

1.0 Introduction

Black & Veatch Special Projects Corp. (Black & Veatch), under U.S. Environmental Protection Agency (EPA) Region 4 Remedial Action Contract (RAC II), has been tasked to conduct a remedial investigation (RI) under Contract Number EP-S4-09-02. The work is being conducted under specific authorization contained in Task Order (TO) 065-RICO-4ADT, Statement of Work for the Southeastern Wood Preserving (SWP) Superfund Site in Canton, Madison County, Mississippi.

The overall purpose of the RI is to define the nature and extent of contamination at the Site. Toward this end, Black & Veatch sought to gather representative data necessary to address the Data Quality Objectives (DQO) presented in the Site-specific Quality Assurance Project Plan (QAPP) (Black & Veatch, 2012a) and address the data gaps identified in the Conceptual Site Model (CSM). These data gaps prevent a complete evaluation of the nature and extent of groundwater, soil, surface water, and sediment contamination which is needed to select a remedy for the Record of Decision (ROD) for the Site.

The data collection activities for the RI are being conducted in a phased approach with results from each phase or field event interpreted prior to initiating the next phase. This Data Evaluation Report (DER) documents the findings of Phase 1 of the RI that was conducted by Black & Veatch between October 2012 and January 2013. The purpose of this DER is to compile, reduce, evaluate and summarize the results of the RI Phase 1 work. In addition, this DER includes recommendations for Phase 2 of the RI and refinement of the CSM based on the results of the RI Phase 1 activities.

1.1 Problem Definition and Background

A CSM was developed for the SWP by Black & Veatch after a thorough review of existing Site data and was presented at a technical meeting at EPA Region 4 offices on May 30, 2012. Data gaps identified in the CSM that need to be addressed during the RI include:

- An inadequate characterization of the presence or lack thereof Site-related contaminants within Batchelor Creek and its floodplains downstream of the Site. Historic reports suggest that Site-related contaminants were present downstream of the Site, but the nature and extent had not been defined. Batchelor Creek flows into Big Black River approximately 10 to 12 miles

downstream. There is evidence of fishing and recreational usage in the Big Black River.

- The nature and extent of the Yazoo Clay underneath the Site and its viability as a confining or semi-confining unit for potential Site remedies that include subsurface containment. Soil borings advanced as part of the Expanded Site Investigation (ESI) (Tetra Tech, 2009a) and by a Soil Boring Investigation conducted by Tetra Tech EM, Inc. (Tetra Tech) and the EPA Science and Ecosystem Support Division (SESD) in 2008 (Tetra Tech, 2009b) did not extend past 36 feet (ft) below land surface (bls) and did not penetrate completely through the clay into the underlying Cockfield Formation. The Cockfield Formation has been identified as one of the water sources to some domestic wells within Madison County.
- It is unclear if Site-related contamination may have penetrated through the Yazoo Clay into the underlying Cockfield Formation and impacted domestic wells in the vicinity of the Site.
- The impacts to the surrounding residential properties by Site contaminants, specifically dioxins in the surface soils and semi-volatile organic compounds (SVOCs) in subsurface soils, are not known.
- Contaminant mass distribution and characterization of the nature of the non-aqueous phase liquid (NAPL) at and near the Site are not known.
- Soil samples collected during the ESI (Tetra Tech, 2009a) suggest an area of pentachlorophenol (PCP) contamination may exist on the eastern portion of the Site. The extent and magnitude are unknown.
- The presence or lack thereof of contamination in the on-Site treated stockpile is not well known.

The objectives of Phase 1 of the RI were to collect data to address these identified data gaps:

1. Determine the presence and concentrations of surface soil/sediment contamination in Batchelor Creek and in areas affected by overflows of the creek.
2. Collection and analyses of surface and subsurface soil samples from residential properties adjacent to the SWP Site that may have been contaminated from stormwater runoff or other transport mechanisms.

3. Determine if the domestic supply wells in the vicinity of the Site are contaminated with Site-related contaminants.
4. Characterization of Site-specific geology/hydrogeology data, including geochemical analyses, in anticipation that bioremediation or monitored natural attenuation (MNA) be used as potential remedies for the Site.

1.2 Report Organization

This DER presents RI Phase 1 sampling results. Section 2.0 presents the Site background and characterizations including some of the observations made during the RI Phase 1. Section 3.0 presents the sampling approach and specifications. Section 4.0 discusses the sample results. Section 5.0 presents the summary and conclusions. Section 6.0 provides the references used in this DER.

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2.0 Site Background and Characteristics

This section presents the physical description of the SWP Site and surrounding areas. It includes a summary of the historical sampling and remedial activities that have occurred at the SWP Site. Information and observations made during the Phase 1 RI have been included to provide a better understanding of the current Site conditions and the sample results presented in Section 4.0. Much of the information in this section was excerpted from the following sources, each of which is included in its entirety on the accompanying CD:

- *Final Expanded Site Inspection* (ESI), July 2009 (Tetra Tech, 2009a)
- *Borehole Logs*, February 2009 (Tetra Tech, 2009b)
- *Final CERCLA Removal Action Report*, March 2011 (Tetra Tech, 2011).

2.1 Site Location

The SWP Site is located along Covington Drive in Canton, Madison County, Mississippi, in a predominantly agricultural and residential area. Specifically, the geographic coordinates for the SWP Site, as measured from the center of the on-Site waste stockpile, are 32.6180611° north latitude and 90.0181889° west longitude. A Site Location Map is presented as Figure 2-1.

The Site covers approximately 25 acres of land. Current Site features include a scale house presently being used by a wood chipping operation that leases property on the eastern portion of the Site; a silo which housed wood chips used for boiler fuel currently being used for storage; and a large stockpile of contaminated soil and waste. The Site is bounded to the north by Batchelor Creek, and the Illinois Central Gulf Railroad which is no longer in operation; to the east by a residential and industrial area; to the south by Covington Drive; and to the west by residential and agricultural properties. The City of Canton owns active and inactive municipal drinking water wells north, south, east, and west of Site. The Site Layout is shown on Figure 2-2.

2.2 Site Description and Background

The current Site area was originally part of a larger property owned by King Lumber, which operated the Site as a saw mill, lumber yard, and wood treating

facility beginning in 1928. Canton Treating Company leased the wood treating operation portion of the King Lumber property (currently the SWP Site property) in 1961 and later purchased the property in 1964. At an unknown time, Dickson Treating Company (Dickson) began operations on the property. Dickson operated the facility until it filed for bankruptcy in late 1979. The assets were held by bankruptcy court from 1979 until 1982, when Southeastern Wood Preserving purchased the Site. In 1984, SWP defaulted on its small business administration loan, without ever operating the facility. The Madison County Industrial Development Authority is the current owner of the property.

During former operations, southern yellow pine timbers were stripped of bark and placed in retort cylinders for drying. Coal tar creosote and PCP were used as wood preservatives. Three on-Site, unlined wastewater treatment surface impoundments were constructed for disposal of wood preserving treatment sludges and process wastewater. During the 1970s, the facility received several notices of violation and fines from the Mississippi Pollution Control Commission (currently the Mississippi Bureau of Pollution Control [MBPC]) for gross contamination of the process area; releases of hazardous substances to Batchelor Creek; and inadequate treatment of process wastewater before it was discharged into the city sewage treatment facility. Before 1977, when the Clean Water Act was enacted, the facility reportedly discharged wastewater directly into Batchelor Creek, which flowed through a city park, a residential area, and to downtown Canton before it entered Bear Creek. When operations ceased, the property included large areas of contamination in the treatment and storage areas, as well as piles of contaminated soil, creosote sludge storage tanks, and three unlined wastewater surface impoundments.

In September 1985, the MBPC conducted a preliminary assessment of the SWP Site. The MBPC observed several piles of creosote-contaminated soil and several violations concluding that a Site Investigation was warranted. In December 1985, MBPC conducted a Site Inspection (SI). Their investigation included collection of one soil sample from the process area, two collocated surface water and sediment samples from Batchelor Creek upstream of the Site, and two collocated surface water and sediment samples from Batchelor Creek downstream of the Site. The soil sample contained detected concentrations of SVOCs. No contaminants were detected in surface water upstream of the Site, and downstream of the Site the surface water contained detectable SVOC concentrations.

As a result of the MBPC SI, the EPA initiated an emergency response action (ERA) at the SWP in 1986 to stabilize three unlined surface impoundments that contained creosote sludge and water. The impoundments were excavated and sludge and soil stabilized with lime kiln dust. Approximately 8000 cubic yards (cy) of stabilized waste were stockpiled on the Site to await treatment or disposal. In 1988, oily waste was observed leaching into the creek. In response, the EPA removed contaminated soil observed leaching into the creek, installed a geofabric liner in the bed of the creek, and lined the banks with riprap to prevent further erosion.

Between 1991 and 1994, the EPA treated the on-Site stockpile using on-Site biotreatment, but the treated waste failed to reach the land disposal restriction (LDR) standards for wood preserving waste. This partially treated waste was placed within a containment cell on-Site and is referred to as the "waste stockpile" (Figure 2-2). In 1994, Mississippi Department of Environmental Quality (MDEQ) prepared a SI prioritization report using existing sample data and updated targets to include private residential wells and fisheries in Batchelor Creek, Bear Creek, and the Big Black River. In 1997, the Site did not meet the National Priorities List (NPL) threshold and the EPA gave the Site No Further Remedial Action Planned (NFRAP) status. In 2002, the EPA Region 4 NPL coordinator reevaluated the 1998 score and included dioxin contamination and soil exposure pathways in a new score, but the Site still fell below the NPL threshold.

In October 2002, the MDEQ provided the EPA with the results of an investigation of Batchelor Creek, during which polynuclear aromatic hydrocarbons (PAHs) (creosote-component compounds) were detected. On February 26, 2003, in response to the MDEQ concerns, a Site reconnaissance was conducted at the SWP Site by the EPA and the MDEQ. Based on this visit, EPA concluded that the surface water pathway was of concern and agreed that contamination was present in Batchelor Creek. The EPA also concluded that the soil exposure pathway was of some concern; however, because of the low number of targets (population on residential properties), the soil exposure pathway would not significantly add to the overall Site score. As a result, EPA maintained the Site's NFRAP status. In 2006, the MDEQ discovered new historical information when researching the Site at the Mississippi Archives and History facility located in Jackson, MS. An aerial photograph taken in 1965 revealed the approximate location of a PCP treatment area on the east end of the SWP property. MDEQ also found an old legal property description which indicated a larger Site "footprint." With the addition of this new

information and the recent population growth in Canton, the EPA agreed that further investigation of the Site was warranted.

In 2007, EPA SESD personnel advanced soil borings along the northern border of the Site, between the soil stockpile, the former lagoons, and Batchelor Creek to evaluate whether pathways for free-phase creosote to enter Batchelor Creek exist and, if so, where they enter the creek. Visible and odorous impacts (believed to be creosote) to the soil were observed in several of the borings adjacent to and west of the soil stockpile. In addition, free-phase creosote was observed in at least one boring located adjacent to the soil stockpile. SESD concluded that the presence of free-phase creosote in the subsurface soil at the Site indicated a potential for creosote to flow into Batchelor Creek.

Tetra Tech was contracted by the EPA to conduct an ESI in September 2008, to determine if the SWP Site should be added to the NPL. The NPL identifies sites where a release, or threatened release, of a hazardous substance poses enough of a risk to public health or the environment to warrant further investigation.

Tetra Tech collected 13 surface and 15 subsurface soil samples from on-Site locations; seven surface and six subsurface soil samples as well as two sediment samples were collected from residential properties; one groundwater sample was collected from an on-Site location; three ground water samples were collected from nearby municipal wells; five surface water and 10 sediment samples were collected from Batchelor Creek; three surface water and four sediment samples were collected from unnamed tributaries of Batchelor Creek; and one surface water sample was collected from the nearby waste water treatment plant effluent. Tetra Tech collected one background surface soil sample from 0 to 1 ft bls and five background subsurface soil samples from depths ranging between 1 and 20 ft bls to attribute potential contaminants detected in on-Site samples. A background temporary groundwater well was collocated with the background soil sample location. Tetra Tech also collected collocated background surface water and sediment samples from Batchelor Creek.

Surface and subsurface soil samples collected during the ESI from source areas contained benzo(a)anthracene, benzo(a)pyrene (BaP), benzo(b)fluoranthene, benzo(k)fluoranthene, PCP, and others. Analytical results for the ground water sample collected on the Site indicated the presence of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene,

indeno(1,2,3-cd)pyrene, and others at elevated concentrations. Analytical results for sediment samples collected from Batchelor Creek indicated the presence of benzo-(a)anthracene, BaP, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and other constituents at elevated concentrations. The results of the ESI are presented along with data collected during the Phase 1 RI in Section 4.0 of this report to help define the nature and extent of Site-related contamination.

In response to the ESI, in August 2009, an EPA Emergency and Rapid Response Services (ERRS) contractor, WRScompass, Inc., removed contaminated soil and sediment from the bottom and south bank of Batchelor Creek, temporarily stockpiling this material on-Site. The material was later transported and disposed of in a landfill. The creek was backfilled and lined with a geotextile liner and riprap. Approximately two to three feet of clay and clean topsoil were placed and graded over much of the Site including the Batchelor Creek Stockpile Area (Figure 2-2) and areas historically used during the wood treating operations.

The ERRS contractor also installed a slurry wall along the south bank of Batchelor Creek between February and March 2010. The wall extends approximately 1500 ft along the creek bank. It is 3-ft wide, and extends to a depth of 30 ft bls (Figure 2-2).

2.3 Geologic Setting

The following sections were primarily based on information obtained from the following: MDEQ News, V10, *Geology and Groundwater at the Southeastern Wood Preserving Superfund Site in Canton*, January 2013, observations made during the Phase 1 RI, and personal communication with the MDEQ State Geologist, Dr. David Dockery (personal communication, November 7, 2012).

Madison County lies in two physiographic districts of the Gulf Coastal Plain: North Central Plateau and Jackson Prairie. The North Central Plateau district is located in the northern quarter of the county, with elevations ranging from about 200 to 450 ft above mean sea level (msl). The Jackson Prairie district is located in the remainder of the county and is characterized by gently rolling hills, with elevations that do not exceed 400 ft above msl. The SWP Site is located in the Jackson Prairie district. Land elevation at the SWP Site ranges from 240 ft above msl on the southern portion of the Site and gradually descends to the northwest to 230 ft above msl adjacent to Batchelor Creek.

The SWP Site is located within the outcrop belt of the Jackson Group, which was deposited during the Tertiary period. The Jackson Group is composed of the Yazoo Clay and the underlying Moody's Branch Formation. The Yazoo Clay can be divided into three zones (Stover et al., 1988). Zone A, or the surface zone, generally ranges from 0.5- to 1-ft thick and consists of a highly weathered, brown, silty clay containing roots and organic material. This zone is most affected by chemical and physical weathering processes.

Zone B, the weathered zone, generally ranges from 10- to 30-ft thick. It consists of a light tan to yellowish brown stiff clay containing roots and organics. This zone usually contains numerous desiccation cracks that are often 1- to 2-inches wide (Stover et al., 1988). The Yazoo Clay is composed in large part of expansive or "fat" clay minerals that have the capability to increase in volume (swell) when saturated with water. When this expansive clay dries out or desiccates, irregular fractures or cracks form from the shrinkage of the clay. These desiccation cracks become conduits for secondary mineral growth or as potential pathways for contaminant migration.

Zone C, or the unweathered zone of the Yazoo Clay, consists of very stiff, blue-green to blue-gray, calcareous (limy), fossiliferous clay. This zone is not affected by the weathering process except where exposed in road cuts or excavations. Upon exposure, Zone C quickly assumes the characteristics of Zones A and B (Stover et al., 1988).

The Yazoo Clay gradationally transitions into the underlying Moodys Branch Formation which consists of glauconitic and fossiliferous marl and sand.

The Jackson Group is unconformably underlain by the Cockfield Formation. An unconformity is a non-depositional surface separating two lithologies indicating that deposition was not continuous. The unconformity between the Moodys Branch and Cockfield Formation represents a worldwide change in sea level 38 million years ago, where there was a major change in deposition between the organic-rich deltaic clay of the Cockfield Formation and the fossiliferous marine sand of the Moody's Branch Formation.

The Cockfield Formation is progressively underlain by the following geologic units, with depths estimated in the vicinity of the SWP Site:

- Cook Mountain Formation: clay and glauconitic fossiliferous sandstone and sandy limestone, approximately 435 ft bls and estimated 130-ft thick.
- Sparta Formation, medium-grained sand interbedded with clay and lignite, approximately 565 to 600 ft bls and estimated 400-ft thick.
- Zilpha Clay: dark gray to brown fossiliferous clay deposited during the Eocene Epoch, approximately 920 ft bls and estimated 200-ft thick.

2.4 Hydrogeologic Setting

Hydrogeologic units underlying the Site include (in descending order) the Yazoo Clay confining unit, the Cockfield aquifer, the Cook Mountain confining unit, the Sparta aquifer, and the Zilpha confining unit.

The Yazoo Clay acts as a confining layer throughout central and southern Mississippi. The underlying Moody's Branch Formation locally yields small amounts of water to rural wells, but is not recognized as an aquifer. The underlying Cockfield aquifer is the shallowest aquifer in the Canton area. Wells extracting groundwater from this aquifer are reportedly capable of producing up to 650 gallons per minute (gpm) in Madison County (USGS, 1979). Recharge to the aquifer is from rainfall on the outcrop area and from direct communication with streams. The Cockfield aquifer is progressively underlain by the following hydrogeologic units, with depths estimated in the vicinity of the SWP Site:

- The Cook Mountain confining unit consists of the Cook Mountain Formation and acts as the lower confining layer beneath the Cockfield aquifer across the region. This unit is encountered at a depth of approximately 435 ft bls and is 130-ft thick in the vicinity of the SWP Site.
- The Sparta aquifer consists of the Sparta Formation and underlies the Cook Mountain confining unit. This unit is the major source of water for industrial, municipal, and domestic users; it lies at an estimated depth of 565 ft bls. This aquifer is approximately 400-ft thick and produces water which is soft sodium-bicarbonate type commonly high in iron that is acidic in the outcrop belt and the northern quarter of the belt, but alkaline elsewhere. Aquifer recharge is from rainfall on the outcrop area and from direct communication with streams. Yields to water wells in the Sparta aquifer are as high as 1,000 gpm.

2.5 Site Specific Geology and Hydrogeology

During previous investigations, soil borings were not advanced beyond visually contaminated zones. The deepest borings were advanced in 2008 and generally were advanced to shallow depths with the deepest boring, P3, extending to 36 ft bls (Tetra Tech, 2009b). During the Phase 1 RI, soil borings were planned to be advanced below the Yazoo Clay into the upper Cockfield aquifer where monitoring wells were to be installed to evaluate potential contamination of this aquifer and characterize the Site lithology.

In November 2012, Black & Veatch advanced soil boring SWP004 (details of this activity are presented in Section 3.0). While advancing soil boring SWP004, it was discovered that the upper sand aquifer that regionally marks the top of the Cockfield Formation does not occur beneath the SWP Site. Boring SWP004 was advanced to a total depth of 180 ft bls. In January 2013, Black & Veatch advanced two additional borings, SWP001 and SWP002, to a total depth of 320 ft bls. Additional details are presented in Section 3.0 and boring logs are presented in Appendix A.

Based on these borings and information obtained in personal communication with Dr. David Dockery (personal communication, November 7, 2012), the Site geology is summarized as follows:

- Yazoo Clay: All three zones of the Yazoo Clay were encountered during RI drilling activities. Zone A generally extends to approximately 5 to 6 ft bls. It is characterized as brown to tan (locally mottled orange) sand, clayey sand, and sandy clay. Zone B is approximately 23 to 33 ft bls. It is characterized as weathered dark orange to red clay. Zone C consists of a stiff moderately plastic gray clay. It is approximately 40 to 50 ft bls.
- Moody Branch Formation: The Moody Branch Formation is characterized by a dark gray to dark green sandy clay or sand that typically contains abundant shell fragments and glauconite-enriched zones. The Moodys Branch Formation was encountered from approximately 40 to 50 ft bls to 67 to 82 bls where it unconformably transitions into the Cockfield Formation.
- Cockfield Formation: The Cockfield Formation was encountered from approximately 67 to 82 bls to the total depth of the borings (180 to 320 ft bls). The upper portion of the organic-rich Cockfield is characterized by its dark brown color, accompanied by occasional layers of lignite, wood debris, and imprints/relicts of leaves typical of the deltaic depositional environment.

In addition, small pockets of microcrystalline drusy pyrite were found indicative of a post-depositional oxygen-poor reducing environment. Frequent laminations were distinguished by alternating brown and dark brown layers with individual thickness of the layers typically less than one millimeter. The plastic clay/silty clay of the upper portion of the Cockfield Formation was stiff to very stiff to hard, most of which was difficult to split apart for the purpose of logging.

A generalize cross-section for the Site is presented in Appendix A. The lower aquifer of the Cockfield Formation was encountered at approximately 280 ft bls at SWP001 and 297.5 ft bls at SWP002. The aquifer consists of wet fine-grained sand with interbedded clay and sandy clay. Monitoring wells were installed within this aquifer as detailed in Section 3.0.

2.6 Wood Treating Terminology and Information

Figures, tables, and discussions presented in this report focus on the contaminants known to be associated with the wood treating operations that occurred on the SWP Site, including: coal tar creosote, dioxin, and PCP. Brief descriptions of these wood treatment chemicals or manufacturing by products are provided below:

- Coal tar creosote is a thick, oily liquid that is typically amber to black in color, and is a distillation product of coal tar. Coal tar creosote was the most widely used wood preservative in the United States. Coal tar creosote consists of aromatic hydrocarbons, anthracene, naphthalene, and phenanthrene derivatives. At least 75 percent of the coal tar creosote mixture is PAHs. PAHs are made up of carbon and hydrogen atoms grouped into at least two condensed aromatic ring structures. PAHs are divided into two categories: low molecular weight (LMW) compounds composed of fewer than four rings (e.g., naphthalene, the simplest PAH (a 2-ring compound], and high molecular weight [HMW] compounds of four or more rings [e.g., benzo(a)anthracene, BaP, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)-anthracene, indeno(1,2,3-cd)pyrene). As a general rule, the LMW compounds are less persistent and more mobile in the environment than the HMW compounds (ATSDR, 2002).
- PCP is a chlorinated hydrocarbon insecticide and fungicide. It is primarily used to protect timber from fungal rot and wood-boring insects. PCP is applied to wood as a liquid formulation composed of PCP dissolved in petroleum diluents such as oils, kerosene, or mineral spirits. In soils and

sediments, PCP is metabolized by acclimated microbes or is adsorbed. Adsorption of PCP in soils is pH-dependent. Adsorption decreases in neutral and basic soils and is strongest in acidic soils. Therefore, the compound is most mobile in neutral-to-basic mineral soils and least mobile in acidic organic soils (ATSDR, 2001).

- Dioxins/furans are a group of synthetic organic chemicals that contain 210 structurally related individual chlorinated dibenzo-p-dioxins (CDDs) and chlorinated dibenzofurans (CDFs). Tetra-, hexa- and octochlorodibenzo-p-dioxin are manufacturing byproducts of PCP. Dioxins strongly partition to soils and sediments. Due to their low vapor pressure, low aqueous solubility, and sorption to soil and sediments, dioxins are generally immobile in soils and sediments (ATSDR, 1998).

3.0 Sampling Approach and Specifications

Black & Veatch conducted the Phase 1 RI field study between November 6, 2012 and January 24, 2013. These activities included: characterization of sediment and surface water within Batchelor Creek; characterization of surface and subsurface soils from residential properties adjacent to the SWP Site; and characterization of geology/hydrogeology of the Yazoo Clay and Cockfield Formations under the SWP Site through soil borings, and installation and sampling of monitoring wells. Additional field activities were conducted by the EPA's SESD to locate and sample potable wells within the vicinity of the Site. All field activities were completed in accordance with the *Sampling and Analysis Plan (SAP), Volume 1 – Field Sampling Plan (FSP), Southeastern Wood Preserving Site, Canton, Madison County, Mississippi* (Black & Veatch, 2012b) with some deviations based on field conditions that will be discussed in the following sections.

3.1 Batchelor Creek Sediment and Surface Water Sampling

Sediment and surface water samples were collected from Batchelor Creek on October 27 and 28, 2012. The objective of the sampling was to confirm the presence, or absence thereof of Site-related contaminants in Batchelor Creek and its floodplain. Samples were to be collected at nine bridge crossings and just upstream of the confluence of Batchelor Creek and Bear Creek. Two additional locations within Bear Creek upstream and downstream of its confluence with Batchelor Creek were also to be collected. Samples were to be screened from four locations at each bridge crossing using an Oil-n-Soil™ field test kit prior to collecting samples for SVOC analysis.

When the field team arrived on-Site on October 25, 2012, they discovered Batchelor Creek is lined with a geotextile liner and up to one foot of riprap material, consisting of a fine gravel layer, large cobbles and boulders. This material extends from upstream of the SWP Site to approximately one-half mile outside the City of Canton city limits. This riprap material created an obstacle to being able to quickly grab samples at the proposed locations and restricted access to some of the proposed sample locations by channeling the water. For this reason, instead of screening four locations at each of the bridge crossings, a sample was collected near the center of the creek upstream of the bridge crossings at four locations (SWP101, SWP102, SWP103 and SWP107) (Table 3-1). At these locations, the field team manually moved a small amount of the riprap material and broke through the liner where it

was present to collect samples of native sediments using a stainless steel hand auger. Surface water samples were collected from the four locations (SWP101, SWP102, SWP103 and SWP107), just upstream of the sediment sampling locations.

In addition to filling the appropriate containers with sediment for SVOC analysis, a sample was collected for screening using the Oil-n-Soil™ test kits. No positive results were obtained from any of the locations. These kits were used during drilling activities (discussed in section 3.3) with soils that contained visual contaminants with no positive results. For this reason, it was concluded that these kits are not an appropriate screening technique under the field conditions encountered at the SWP Site.

At two of the proposed locations (SWP105 and SWP106), a concrete pad was encountered and high water prevented the field crew from being able to move the riprap material at locations farther from the bridge; therefore, no samples were collected. A sample also was not collected at SWP104 because the proposed location was only 500-ft downstream of SWP103..

At SWP108, no riprap lined the creek, but high water was encountered upstream of the road crossing. The field team surveyed the area approximately a tenth of a mile upstream from the road crossing; however, no access point could be found and thick brush prevented further investigation. The field team attempted to use an Ekman sediment sampler borrowed from MDEQ to collect a sediment sample from the roadway; however, debris at the base of the road crossing prevented the use of the sampler. A sample was obtained from SWP108 by combining several lengths of a hand auger. This allowed the team enough leverage to collect a sample from the roadway, reaching outside of the debris area. A surface water sample was collected at SWP108 using a disposable bailer lowered from the road crossing. At SWP109, there was limited access to the creek because of a busy interstate highway and fencing restricting access upstream of the bridge. A sediment and surface water sample were collected near the right bank just downstream of the bridge where access was possible.

A sample was not collected from proposed location SWP110 because access to the location was restricted by heavy vegetation and high water in Batchelor Creek and its tributaries. Proposed location SWP111 was relocated farther downstream of the Batchelor Creek/Bear Creek confluence because heavy vegetation and high water restricted access to the proposed location. The sediment sample was collected from

near the left bank underneath the Old Yazoo City Road Bridge using an extended auger. The surface water sample was collected by lowering a bailer from the bridge near the center of the creek. Proposed location SWP112 was relocated farther upstream of the Batchelor Creek/Bear Creek confluence because heavy vegetation and high water restricted access. Sample SWP112 was collected from near the center of the Heindl Road Bridge using an extended auger for sediment collection and bailer for surface water samples.

Sample location SWP213 was added to the sampling activities during the field investigation. The location corresponds to the end of the geotextile liner/riprap area. Sediment and surface water samples were collected near the center of the creek, just downstream of the end of the riprap to evaluate potential contamination outside of this protected zone. A photolog showing the locations and conditions at each of the Batchelor Creek sampling locations is provided in Appendix C.

A total of nine sediment and nine surface water samples were collected during Phase 1 of the RI field study and submitted to EPA Contract Laboratory Program (CLP) laboratory, KAP Technologies Inc., for SVOC analysis. Sample results will be discussed in Sections 4.1 and 4.2.

3.2 Residential Surface and Subsurface Soil Sampling

In order to evaluate if any of the private properties adjacent to the SWP Site are impacted by Site contaminants, surface and subsurface soil samples were collected from 25 locations (SWP201-SWP225) from October 24 to 29, 2012 (Table 3-1). At each location, a five-point composite surface soil sample was collected for chemical analysis from 0 to 6 inches and subsurface samples were to be collected from 6 to 12 inches bls, in an approximate 50 × 50 ft grid. Due to the nature of some of the yards, it was not possible to collect samples in a 50 × 50 ft grid and alternative configurations were used. These alternatives were documented in the field logbook (Appendix B) and in a photolog showing the location and conditions at each of the sample locations in Appendix C. At locations SWP3216 and SWP3219, only four-point composites were collected due to hard soil or the yard configuration. At location SWP3214, the sample was collected as a three-point composite sample from drainage ditch running in front of the house due to access issues and the observation that the yard probably contained fill material due to its apparent high grade.

In response to high dioxin concentration detected during the October 2012 investigation, an additional eleven locations (SWP226-SWP236) were sampled January 23 and 24, 2013 to further delineate the extent of contamination. These samples were also collected as five-point composite samples in an approximate 50 × 50 grid unless modified by the yard configuration. Surface samples (0 to 6 inches) were collected from all eleven locations, and subsurface samples (6 to 12 inches) were collected from three of the locations (SWP226, SWP229, and SWP236).

Surface and subsurface soil samples were submitted to the CLP laboratory KAP Technologies Inc. in October 2012 and the SESD Region 4 laboratory in January 2013 for SVOC analysis. Surface soil samples were submitted to CLP laboratory Cape Fear Analytical in October 2012 and ARI Laboratory in January 2013 for dioxin analysis. The sample results were presented and discussed in Section 4.3.

3.3 Onsite Soil Borings

Based on regional information and the CSM, drilling activities were initiated on November 6, 2012 with the assumption that the Yazoo Clay underlying the Site ranged in thickness between 40 to 80 ft bls, and was underlain by a sand aquifer at the top of the underlying Cockfield Formation, a potential source for domestic wells in the vicinity of the Site. The purpose of the drilling activities was to characterize the nature and competency of the Yazoo Clay as a viable confining or semi-confining unit for a potential containment remedy and to determine if Site-related contaminants are impacting the underlying Cockfield aquifer.

Drilling activities were performed using an 8140LS sonic drill rig operated by Groundwater Protection, Inc., a Mississippi-licensed drilling contractor. The drilling was supervised by a Black & Veatch geologist. Sonic drilling involves advancing a 4-inch inside diameter (ID) core barrel in 10-ft segments for soil sample removal. Upon reaching the 10-ft increment, a 6-inch ID core barrel is placed over the 4-inch ID core barrel and advanced to the same depth as the 4-inch ID core barrel. With the 6-inch ID core barrel still in place, the 4-inch core barrel is removed, and the sample is removed and placed into 5-ft or 10-ft long plastic sleeves for examination by the on-Site geologist.

The 8140LS drill rig has the capability of advancing to 157 ft bls, however, the crew was able to advance SWP004 to 180 ft bls without encountering a viable aquifer. Because the limits of the rig were reached, SWP004 was abandoned using Pure

Gold® 30 percent high-solids grout, tremie grouted from the bottom of the boring to the ground surface.

Personal communication with, Dr. David Dockery (personal communication, November 7, 2012) revealed that there are five municipal wells located north, south, east, and west of the SWP Site (Figure D-1, Appendix D), with the City of Canton Water Treatment Plant located approximately one block south of the SWP Site. Dr. Dockery was able to provide Black & Veatch with a number of well records related to these wells, including geophysical well logs (personal communication, November 7, 2012). Table D-1 in Appendix D summarizes the details of these municipal wells.

In addition, electrical logs were provided, to Black & Veatch from Dr. Dockery, (personal communication, November 7, 2012) for four of the nearby production wells, Test Well 1 (N51), WTP 5 (N2), WTP 6 (N3), and WTP 7 (N3). These logs are provided in Appendix D.

The electrical log for WTP 6 was compared to a Water Well Drillers Log (Tetra Tech, 2009a) in order to understand the general hydrogeology underlying the Site. This comparison is presented on Table D-2 in Appendix D. According to Dr. Dockery (personal communication, November 7, 2012), there is usually a producing zone within the Moody's Branch Formation at approximately 100 ft bls; however, this zone is absent from WTP 6 and as discovered at SWP004, also missing beneath the SWP Site.

At WTP 6, the first water bearing zone occurred between approximately 285 and 370 ft bls. The segment of the electrical log showing this is enlarged in Figure D-2, in Appendix D. As interpreted on Table D-2 (Appendix D), the Cockfield aquifer is underlain by the Cook Mountain confining unit, followed by the Sparta aquifer, which is the primary drinking water aquifer in the region.

The electrical log also provides a visual reference to the various confining and water bearing zones at WTP 6. Three potential water bearing zones are identified on the log segregated by confining units, the Moody's Branch Formation, the Cockfield aquifer, and the Sparta aquifer. The slight response for the electrical log for the Moody's Branch Formation from about 80 to 90 ft bls indicates higher moisture in this Site, however, based on observation made during RI Phase 1 drilling activities, this zone will not provide sufficient water to support monitoring well installation. The electrical log response from 285 to 370 bls did appear to have enough

groundwater yield for the purpose of a monitoring well. Even higher responses on the electrical log were recorded in the Sparta aquifer at depth which corresponds with the municipal well screened intervals. As shown on Table D-1, the well screen for municipal production well WTP 6 was between 800 and 900 ft bls. This well has since been decommissioned.

Using this information, two additional soil borings (SWP001 and SWP002) were advanced at the Site on January 8 to 19, 2013. A Diedrich D-120 Truck Mounted sonic drill rig capable of advancing to greater depths than the 8140LS sonic drill rig was employed. The two borings were advanced to a total depth of 320 ft bls. A sand aquifer was encountered between 290 and 300 ft bls in each of the borings. Each was completed as a monitoring well as described in Section 3.4. The boring logs for SWP001 and SWP002 are presented in Appendix A.

A sonic over-ride casing was employed at SWP001 from 0 to 40 ft to seal the boring after NAPL was encountered. The override casing was 8-inches in diameter and advanced over the 6-inch casing in 10-ft intervals. The 4-inch and 6-inch equipment was removed and decontaminated after the 8-inch core barrel was installed and the 8-inch core barrel was pumped out and flushed to prevent pushing contaminants vertically. An over-ride casing was also employed at SWP002. While no contaminant was encountered, the casing served to hold the boring open to prevent the 4 × 6 casings from getting stuck in the tight clay of the Cockfield Formation.

Soils in areas of suspected creosote contamination were field screened with a photoionization detector (PID) and Oil-n-Soil™ test kits. No positive results were shown in the test kits, even in soils with obvious visual creosote staining and product. The soil borings logs (in Appendix A) contain the results of the PID screening. A detailed photolog for SWP004 is presented in Appendix C. Additional photos showing significant features or observations from borings SWP001 and SWP002 are also presented in Appendix C.

Three samples per boring were collected for SVOC analysis, with the sample depths determined by the field geologist based on field observations. SVOC samples were submitted to KAP Technologies Inc. in October 2012 and the EPA SESD Region 4 laboratory in January 2013. In addition, soil samples for dioxins and total metals analyses were collected at each boring from underneath the fill material. The samples were submitted to the CLP laboratory Cape Fear Analytical in October 2012 and ARI Laboratory in January 2013 for dioxin analysis and SESD Region 4

laboratory for metals analysis. The sample results are presented and discussed in Section 4.5.

Soil samples were collected for geotechnical from all three soil borings. Analyses included:

- Unified Soil Classification System (USCS) description per ASTM standard D2487
- Bulk density
- Soil pH determined by EPA Method 9045
- Atterberg limits determined by ASTM D4318
- Moisture content determined by ASTM D2216
- Grain size distribution determined by ASTM D422
- Hydraulic conductivity determined by ASTM D5084.

In addition, total organic carbon (TOC) was tested using the Walkley Black method. Sample intervals were determined based on observations made by the Site geologist in consultation with the project engineer. The samples were submitted to Kemron Environmental Services for analyses. Geotechnical results are presented and discussed in Section 4.5.3.

3.4 Monitoring Well Installation

Upon reaching total depth at two borings (SWP001 and SWP002), monitoring wells were installed January 8 to 18, 2013. The purpose of the wells is to evaluate whether or not Site contaminants have penetrated into the Cockfield aquifer. Decontaminated riser pipe and well screen constructed of 2-inch diameter, 403 stainless steel with vee-wire wrapped screens of 0.010-inch continuous openings were assembled and placed in the boreholes. Well screens were 10-ft in length and fitted with a threaded stainless steel bottom plug. The filter pack material consisted of 20/30 washed silica sand. The filter pack was installed to at least 12 inches under the bottom of the well plug and extends up to approximately, but no less than 2 ft above the top of the well screen. Fine grained 30/60 silica sand was placed 2 feet above the sand pack and uncoated bentonite pellets were then placed down the annular space to provide a primary seal 5-ft thick above the sand pack. The remaining annular space was grouted by tremie pipe to within approximately 2 ft of

the surface with a bentonite grout composed of Pure Gold® 30 percent high-solids grout and potable water. After the grout cured, the monitoring wells were sealed to the ground surface with concrete and a minimum 2-ft by 2-ft by 6-inch thick concrete surface pad and an aluminum protective cover. Protective bollards were placed around each well. Well installation diagrams are presented in Appendix A.

3.5 Monitoring Well Development

The newly installed groundwater monitoring wells were developed no sooner than 24 hours after completion of the surface pad. Well development involved manual surging using a Wattera™ pump, and pumping to remove fines and stimulate yield. The monitoring wells were developed until well water was free of visible sediment and the pH, temperature, turbidity, and specific conductivity stabilized and a minimum of five well volumes were removed. Monitoring well development records, including recorded parameters, are included in Appendix B.

3.6 Monitoring Well Sampling

The two newly installed monitoring wells were sampled January 22, 2013. The wells were purged using a Geotech™ Geosub 12-volt DC stainless steel submersible pump equipped with single-use Teflon® tubing. The pump intake line was placed slightly below the top of the water surface in order to pull water from the entire length of the water column. Field measurements of pH, temperature, turbidity, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were collected during groundwater sampling. Groundwater purge logs are included in Appendix B. Samples were submitted for SVOC, volatile organic compound (VOC), total metals and select MNA parameters analysis to the EPA SESD Region 4 laboratory and Black & Veatch's Basic Ordering Agreement (BOA) laboratory, Shealy Environmental. Groundwater sample results are presented and discussed in Section 4.6.

3.7 Potable Well Sampling

Potable well sampling was completed by the EPA SESD in January 2013, with the intention to sample wells within a one-mile radius of the Site. Upon arrival, an extensive discussion was conducted between SESD and personnel at Canton Municipal Utilities (CMU) pertaining to the status of planned wells to sample. One industrial well located at International Paper (IP) approximately one-quarter mile west of the Site was the only active well within the CMU service area, and no domestic wells are known to exist in the vicinity of the Site.

The IP well was not available for sampling due to access issues at the time of the investigation. The sampling event became limited to wells in the CMU system. Six municipal wells in the CMU system were sampled including a background well in Camden, MS located approximately 18 miles to the northeast. Three of the wells were within a one-mile radius of the Site. The wells were sampled for dioxins SVOCs, pesticides, polychlorinated biphenyls, VOCs, metals, and cyanide. The complete SESD report is provided in Attachment B.

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4.0 Sample Results and Discussion

Results from the Phase 1 RI field study conducted between November 6, 2012 and January 24, 2013 will be discussed in the following sections. In addition, data collected from previous Site investigations, including the 2008 ESI, will be included to provide a more complete description of the current Site conditions. A summary of all samples included in this discussion is presented in Table 3-1.

Two data management conventions are being utilized to describe the sample results. For dioxin/furan congeners, collectively referred to as "dioxin-like compounds," a dioxin toxicity equivalent (TEQ) value was calculated for each sample. The TEQ normalizes the toxicity of the detected dioxins and dioxin-like compounds to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), the most widely studied and most toxic of the dioxins. Each dioxin-like compound is assigned a toxicity equivalence factor (TEF) and the TEQ is the sum of the concentrations of the dioxin-like compounds multiplied by their respective TEFs. The EPA Region 4 has adopted TEFs based on the work of van den Burg et al. in 1998 (Van den Burg, 1998) and recommended by the World Health Organization (WHO). The resultant TEQs were referred to as TEQ-WHO98. In 2005, the WHO reevaluated the TEFs for dioxin-like compounds and made changes that affect the calculation of the TEQ. The current TEQs are referred to as WHO TEQ-2005.

Second, to simplify the discussion of PAH contamination, a TEF methodology analogous to the method used to evaluate dioxins and furans was adopted for carcinogenic polycyclic aromatic hydrocarbons (cPAHs). These TEFs, shown below, are based on the relative potency of each compound to that of BaP as recommended in the EPA's *Provisional Guidance for Quantitative Assessment of Polycyclic Aromatic Hydrocarbons* (EPA, 1993). The resulting value is referred to as a BaP TEQ. Non-detects were treated as zero.

TEFs for cPAH Compound	TEF
Benzo(a)pyrene	1.0
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001

Dibenzo(a,h)anthracene	1.0
Indeno(1,2,3-c,d)pyrene	0.1

For all contaminants, except for dioxin, tables presented in the DER include EPA's Regional Screening Levels (RSLs), equivalent to preliminary remediation goals (PRGs), for comparison purposes (EPA, 2012). RSLs are risk-based concentrations, derived from standardized equations that combine exposure assumptions with EPA toxicity data. If the exposure assumptions that form the basis of the RSL calculation are the same as the Site conditions, they are considered by EPA to be protective for humans (including sensitive groups), over a lifetime. Exceeding a RSL suggests that further evaluation of the potential risks that may be posed by Site contaminants is appropriate. For dioxin, the draft recommended interim PRG for residential soil of 50 nanograms per kilogram (ng/kg) is listed (EPA, 2009). Since the terms are equivalent and interchangeable, and since the EPA 2009 dioxin document uses the term PRG, PRG is used in tables, figures, and text.

The comparison of the Site data to the PRG is intended to provide a reference point to gauge the relative magnitude of contaminant concentrations. Presentation of the data in this way is not intended to eliminate contaminants from consideration or to evaluate the risk of any contaminant. Exceeding the PRG suggests that further evaluation of the potential risk is necessary. That evaluation will be presented in the Baseline Risk Assessment, a part of the RI process and will be included in the RI report.

4.1 Batchelor Creek Sediment

Sediment samples were collected from nine locations within Batchelor Creek during Phase 1 RI and the 18 locations within Batchelor Creek and its tributaries during the 2008 ESI (Figure 4-1). During the 2008 ESI, seven locations were sampled for dioxin analysis, and dioxin was detected at two of these locations SWP-SD-01 and SWP-SD-02 with concentrations of 30 and 16 ng/kg (i.e., parts per trillion, ppt) respectively. These concentrations are below the residential soil PRG of 50 ng/kg which was used as the screening value for dioxin TEQ. Location SWP-SD-02 was excavated during the ERA that occurred in Batchelor Creek in 2009. None of the Batchelor Creek sediment samples collected during the 2012 RI Phase 1 sampling event were analyzed for dioxin. A summary of the dioxin laboratory analytical data for the sediment samples collected from Batchelor Creek is presented in Table 4-1. Three locations sampled during the 2008 ESI (SWP-SD-01, SWPBC04, and SWPT03) are not shown on Figure 4-1 because these locations were within the area of Batchelor

Creek that was excavated during the 2009 ERA (Tetra Tech, 2011). However, the sample results are provided on Table 4-1.

During the 2008 ESI, 19 locations were sampled for SVOCs. Except one location (SWPRSD01), all exceeded the residential soil PRG of 15 micrograms per kilogram (µg/kg) for BaP TEQ, which is used as the screening value. During the 2012 sampling event, nine locations were sampled for SVOCs. Four of these locations (SWP101, SWP102, SWP103, and SWP107) exceeded the residential soil PRG of 15 µg/kg for BaP TEQ. A summary of the SVOC laboratory analytical data for the sediment samples collected from Batchelor Creek is presented in Table 4-2.

At several of the sample locations, there was an overlap between the data collected during the 2008 ESI and the Phase 1 RI samples. At these locations, concentrations of BaP TEQ were significantly decreased. For example, in 2008 a BaP TEQ of 1316 µg/kg was detected at SWPBC05; however, during the 2012 Phase 1 RI, a sample was collected in the same vicinity at SWP101 and had a BaP TEQ concentration of 469 µg/kg. Similarly during the 2008 ESI, a BaP TEQ of 968 µg/kg was detected at SWPBC06 and in 2012 a sample from SWP102 showed a detection of 19 µg/kg; and in 2008 a BaP TEQ was detected at a concentration of 4974 µg/kg at SWPBC08 and the 2012 sample from SWP103 showed a detection of 336 µg/kg.

These decreases can be attributed to several factors including the ERA of Batchelor Creek sediments adjacent to the SWP Site and the installation of the slurry wall in 2009/2010 (Tetra Tech, 2011). Additionally, during high water stages, Batchelor Creek becomes a fast moving stream which aids in the dispersion and attenuation of contaminated sediments. For these reasons, the 2012 data provide a better representation of the current relevant extent of contaminants within the Batchelor Creek sediments. Samples collected in 2012 downstream of the riprap area did not contain detectable concentrations of BaP TEQ.

4.2 Batchelor Creek Surface Water

Surface water samples were collected from nine locations in Batchelor Creek during Phase 1 of the RI and eight locations in Batchelor Creek and its tributaries during the 2008 ESI (Figure 4-2). All samples were analyzed for SVOCs and the data were screened against the National Recommended Water Quality Criteria (NRWQC) (Table 4-3).

A few SVOCs were detections in the 2008 ESI data, but not at significant levels. During the 2012 investigation, only bis (2-ethylhexly)phalatate was detected above its NRWQC. It was detected at 11 micrograms per liter (µg/L) in a duplicate sample from location SWP113. This is above the NRWQC screening level of 1.2 µg/L. Because Batchelor Creek is a perennial creek that responds to rain events with a high flow volume, the 2012 data better represent current surface water conditions. In addition, just upstream of the soil stockpile, the City of Canton dispenses treated waste water to the creek on a regular basis. This all aids in the dispersion and attenuation any contaminants that may enter the creek.

4.3 Residential Surface Soil

Residential surface soil samples (0 to 0.5 ft bls) were collected from 36 locations between October 24, 2012 and January 24, 2013 as part of the Phase 1 RI (Table 3-1), and at six locations (0 to 1 ft bls) during the 2008 ESI. Figure 4-3 illustrates the BaP TEQ, dioxin TEQ, and PCP results obtained from these sampling events. Locations where one or more of these analytes exceeded its PRG (15 µg/kg BaP TEQ, 50 ng/kg dioxin TEQ, and 890 µg/kg PCP) are indicated in red. Locations where all analytes were less than the PRGs are shown in green. Summaries of the dioxin and SVOC laboratory analytical data for the residential surface soil samples are presented in Tables 4-4 and 4-5.

With a few exceptions, the locations that had one or more exceedances of a PRG are defined by Covington Dr. to the north, Barfield St. on the east and south, and Miller St. on the west. Sample SWP235, collected at 535 Barfield St., had the highest concentrations of BaP TEQ (5491 µg/kg) and dioxin TEQ (1000 ng/kg). In most cases, BaP TEQ is collocated with dioxin. Interestingly, there are two locations that were non-detect for BaP TEQ but had high concentrations of dioxin. These are SWP008 (600 ng/kg dioxin) located near the intersection of Barfield and Miller Sts. and SWP223 (820 ng/kg dioxin) located near the intersection of Covington Dr. and Miller St. In most cases, PCP was non-detect and in no sample location was it found at a concentration greater than its PRG (890 µg/kg).

4.4 Residential Subsurface Soil

Residential subsurface soil samples (0.5 to 1 ft bls) were collected from 28 locations between October 24, 2012 and January 24, 2013 as part of the Phase 1 RI (Table 3-1), and at six locations during the 2008 ESI. Figure 4-4 illustrates the BaP TEQ, dioxin TEQ, and PCP results obtained from these sampling events. During the 2012

Phase 1 RI, subsurface residential soil samples were sampled for SVOCs only. Locations where one or more of these analytes exceeded its PRG (15 µg/kg BaP TEQ, 50 ng/kg dioxin TEQ, and 890 µg/kg PCP) are indicated in red. Locations where all analytes were less than the PRGs are shown in green. Summaries of the dioxin and SVOC laboratory analytical data for the residential subsurface soil samples are presented in Tables 4-6 and 4-7.

Similar to the residential surface soil samples, the subsurface samples that exceeded one or more PRGs are defined by Covington Dr. on the north, Barfield St. on the east and south, and Miller St. to the west. Sample SWP226, collected at a property adjacent to Covington Drive, had the highest concentrations of BaP TEQ (2392 µg/kg); this location corresponds with SWPR04 that was sampled in 2008 with a BaP TEQ concentration of 29 µg/kg. It should be noted that the sample method during the 2008 investigation was completed by grab sampling, while the Phase 1 RI sampling was completed in a 50 × 50 ft composite grid as discussed in Section 3.2.

4.5 Onsite Soil Borings

Three on-Site soil boring were advanced on the SWP Site between October 24, 2012 and January 24, 2013 as part of the RI Phase 1 investigation, and at thirteen locations during the 2008 ESI (Table 3-1). During the Phase 1 RI, subsurface soil and geotechnical samples were collected from the three borings in addition to characterization of the subsurface geology and visible contamination. During the 2008 ESI, 13 surface and 15 subsurface soil samples were collected and 29 boreholes were advanced to characterize sediment and evaluate the nature of free product on the Site (Tetra Tech, 2009b).

4.5.1 Onsite Surface Soil

Sample results for the surface soil samples collected during the 2008 ESI are presented on Figure 4-5. Summaries of the dioxin and SVOC laboratory analytical data for the on-Site surface soil samples are presented in Tables 4-4 and 4-5. Locations where one or more of these analytes exceeded the residential PRG (15 µg/kg BaP TEQ, 50 ng/kg dioxin TEQ, and 890 µg/kg PCP) are again indicated in red. All of the on-Site surface soil samples exceeded the residential BaP TEQ with the highest concentration found at SWP09 at a concentration of 27,670 µg/kg. This sample was collected from a depth of 0 to 1 ft bls. The dioxin TEQ only exceeded the residential PRG at two location. At SWP02, it was discovered at 3,000 ng/kg and at SWP11 it was found at a concentration of 77 ng/kg. Concentrations of PCP were detected at 12 of the 13 sample locations, with three exceeding the residential PRG.

The highest concentration of PCP (7500 µg/kg) was detected at SWP04. Visible creosote or other indications of contamination were observed in many of the borings.

All of the PCP samples that exceeded the PRG are located in the eastern portion of the Site. The PCP treatment system may have been located in this area during the wood treating operations. The fact that the high dioxin detection is in this area is consistent with the fact that dioxin is known to be associated with PCP.

4.5.2 Onsite Subsurface Soil

During the Phase 1 RI, a total of nine subsurface samples were collected from three on-Site locations ranging in depth between 5 to 300 ft bls. During the 2008 ESI, 14 subsurface samples were collected from 13 locations at depths of 1 to 20 ft bls (Table 3-1).

Four dioxin samples were collected from on-Site locations during the ESI from depths of 1 to 2 ft bls. During the Phase 1 RI, three additional dioxin samples were collected from depths between 5 to 12 ft bls. (This depth was interpreted as being just below fill material). Dioxins were detected in all of the on-Site subsurface soils; however, none exceeded the residential PRG. The highest concentration was detected at SWP001 (23 ng/kg) at a depth of 9 to 10 ft bls. A summary of dioxins detected in on-Site subsurface soil is presented as Table 4-6.

SVOC samples were collected from 14 locations during the 2008 ESI, and nine samples were collected from three locations during the Phase 1 RI. A summary of the SVOC laboratory analytical data for the on-Site subsurface soil samples is presented in Table 4-6. Onsite subsurface soils were screened against industrial PRGs consistent with EPA Region 4 policy. Figure 4-6 illustrates the BaP TEQ and PCP results obtained from these sampling events. Those samples exceeding industrial PRGs (210 µg/kg BaP TEQ and 2700 µg/kg PCP) shown in red. The sample results indicate that subsurface soils that exceed PRGs are widely distributed across the central portion of the Site; however, they were only detected vertically to a depth of approximately 20 ft bls. The highest BaP TEQ was detected in subsurface soil at SWP11 (68,920 µg/kg) from a depth of 16 to 20 ft bls. PCP was detected in many of the on-Site subsurface borings; however, it only exceeded its PRG at SWP09 (80,000 µg/kg). During the 2008 ESI, three samples were collected from within the soil stockpile (Figure 4-6). These samples exceeded the PRGs for

dioxin and BaP TEQ. Summaries of dioxins and SVOCs detected in the on-Site soil pile are presented on Tables 4-8 and 4-9.

Figure 4-6 also depicts visual observations made in soil boring investigation subsequent to the 2008 ESI (Tetra Tech, 2009b). Soils that were described as stained are shown in yellow. Stained soils are discolored with either no or slight odor that suggest SVOCs have moved through the soil or with a strong odor that might suggest residual NAPL is still present in the soils. Borings where soils were encountered containing NAPL either as residual or free flowing product are shown in purple. Observations made for each boring during the 2008 ESI and the 2008 soil boring investigation are presented in the reports provided in Attachment A (Tetra Tech, 2009a, and 2009b).

During the 2012/2013 Phase 1 RI, NAPL or evidence of NAPL was observed to exist to a depth of about 30 ft bls in SWP001 and SWP004. This depth is consistent with the 2008 soil boring investigation (Tetra Tech, 2009b).

In soil boring SWP001, the stiff Yazoo Clay transitions from a mottled orange/gray/brown color to a greenish gray color around 32.5 ft bls. This color change is believed to represent a transition between a weathered (Zone B) and unweathered (Zone C) Yazoo Clay. The occurrence of the orange/gray/brown colors is the result of oxidation, indicating exposure to air.

As discussed in section 2.3, Zone B of the Yazoo Clay typically contains a number of dessication fractures (Stover et al., 1988). These fractures act as conduits allowing for the migration of NAPL through the clay. In contrast, the unweathered portion, Zone C, below approximately 30 ft bls, is more coherent and competent, and is serving as a confining unit that prevents vertical contaminant migration. Detailed descriptions of these soil borings are presented on the boring logs in Appendix A and photologs are presented in Appendix C.

During the 2012/2013 RI Phase 1 investigations, subsurface samples were collected for metals from depths between 5 to 12 ft bls, a depth that was interpreted as being just below fill material. A summary of subsurface soil sample results for metals is presented on Table 4-10. Results were screened against industrial soil PRG. Arsenic was the only constituent that exceeded its PRG of 1.6 milligrams per kilogram (mg/kg). The highest concentration was detected from 6 to 12 ft bls at SWP002 with a concentration of 8.4 mg/kg.

4.5.3 Geotechnical Samples

A summary of the geotechnical sample results is presented in Table 4-11, with the complete laboratory report presented in Appendix E. The grain size distribution of sand, silt-, and clay-sized particles in the nine samples analyzed is highly variable from one sample to the next and displays characteristics of variable depositional environments (e.g., marine and deltaic) as expected based on regional geology and field observations made at the Site. A trace of gravel was found at SWP004 (68 to 69 ft bls) and most likely represents a shell fragment from the Moody's Branch Formation.

USCS descriptions were completed for each soil sample per ASTM standard D2487. The comparison of boring logs to the USCS description is shown in Table 4-11. Field soil descriptions were in close agreement with the results of the grain sieve tests and UCSC classification with only SWP001 (17.5 to 18 ft bls) and SWP002 (117.5 to 118 ft bls) in variance. Table 4-11 includes a breakdown of sand grain into coarse-medium-fine percentages. The majority of sand falls under the fine-grained size classification.

Soil moisture tests were completed for each soil sample per ASTM standard D2216. The values ranged from 29.1 (coarse sand) to 52.9 (stiff clay). The moisture content is indicative of the soil type and indicates interstitial water. For SWP001 at 17.5 to 18.5 ft bls, this pore water was contaminated and/or partially displaced with creosote. The limited moisture analyses (four samples) ranged from 27- to 53-percent. Interpretation of samples collected near the top of each 20-ft core run is potentially compromised because the driller activated water to force the core out of the collection barrel. Dry bulk density ranged from 116.7 to 119.9 pounds per cubic feet.

Atterberg limits were completed for each soil sample per ASTM standard D4318. The comparison of boring logs to the test results is shown on Table 4-11 along with the test interpretation. Atterberg limits can be used to distinguish between different types of silt and clay. As illustrated in Figure E-1 in Appendix E, the four samples are all clay, and plot in the field qualified as either a fat clay (CH) or an organic clay (OH); the 'H' denotes high plasticity in all samples. All the clay soil tested had very high plasticity (plasticity index > 40). Based on the high organic fraction in the dark-colored sediment from the Cockfield Formation, the clay should be classified as OH whereas the green sediment from the Yazoo Clay would fall under the CH classification.

Soil pH from two samples SWP001 (30 to 31 ft bls) and SWP004 (20 to 21 ft bls) ranged from 7.65 to 8.40. Four samples of clay were also tested for hydraulic conductivity (Table 4-11). As indicated, the results were very low in all four samples ranging from 1.40E-08 to 8.40E-09 centimeters per second.

There were 10 samples tested for organic carbon. Soil organic content is used for equilibrium partitioning calculations and is proportional to the degree of contamination that will adsorb to soil. Soil organic content ranged from 300 to 12,100 mg/kg with an average of 3,000 mg/kg. These levels are generally moderate. The highest value, 12,100 mg/kg from SWP002, represents the brown silty clay of the Cockfield Formation. The log for SWP002 indicates higher organic content immediately below this sample, namely an 'organic rich zone' from 118 to 120 ft bls.

4.6 Groundwater Samples

Two monitoring wells were sampled as part of the RI Phase 1 investigation for SVOCs, VOCs, metals and select MNA parameters. Sample results are summarized in Table 4-12. Groundwater results were compared to tap water PRG. Trace SVOC constituents were detected in MW001, and VOC constituents above PRGs were detected in MW002. It is believed that the SVOCs may have been introduced into the screened interval through the drilling process. Surface casings were used in both borings that should have prevented this from occurring but a good seal might not have occurred due to the nature of the Site lithology. If future drilling occurs at the Site a permanent surface casing may need to be installed to prevent this from occurring. Trace VOCs are likely laboratory contaminants. Figure 4-7 displays the total SVOCs detected in the monitoring wells.

Potable well sample results are presented in Attachment B. Low levels of dioxin were detected in one Canton well at levels comparable to those found in the background well. A single sample from a potable well located approximately ¼-mile from the Site contained naphthalene at a level of 0.11 µg/l, slightly below the RSL of 0.14 µg/l. Other than metals at non-harmful levels, no other analytes were detected.

4.7 Data Usability

This section provides information on the usability of sample analytical data and field data generated during 2012/2013 RI Phase 1 investigations. The data usability evaluates the quality of the data and the implication of a qualifier applied to the

sample result. The EPA Region 4 SESD applies qualifiers to the sample results in accordance with the criteria and parameters listed in the EPA CLP National Functional Guidelines for Inorganic Data Review (EPA, 2004), and the EPA Region 4 SESD Office of Quality Assurance Data Validation Standard Operating Procedures for CLP Routine Analytical Services, Revision 2.1 (EPA, 1999).

4.8 Analytical Data Qualifiers and Sample Identification

The analytical results presented in tables presented in this report show concentrations of constituents that may have been assigned a lab qualifier. Qualifiers are defined as:

J Result is an approximate value
U Analyte not detected
O Other (non-standard qualifier)

The sample results from were validated by SESD and were reviewed for usability by Black & Veatch; the usability reports are provided in Appendix E. Duplicate samples are identified on the summary tables presented in Section 4.0. The parent samples were compared to the duplicates in order to ensure that the data obtained were consistent and usable for the intended purposes. Laboratory data are presented in Appendix F.

4.8.1 Field Data

The temperature, pH, conductivity, ORP, DO and turbidity data are considered to be of sufficient quality and have been deemed acceptable for their intended use. The instrumentation was properly calibrated before and after the groundwater sampling event in accordance with the SESD Standard Operating Procedures. Field data collected during groundwater sampling are included on Table 4-12, and on purge forms in Appendix B.

5.0 Summary and Recommendations

Black & Veatch conducted Phase 1 of the RI between November 6, 2012 and January 24, 2013. Phase 1 included characterization of sediment and surface water within Batchelor Creek; characterization of surface and subsurface soils from residential properties adjacent to the SWP Site; and characterization of geology/hydrogeology of the Yazoo Clay and Cockfield formations under the SWP Site through soil borings, and installation and sampling of monitoring wells. These investigations were undertaken to address these specific data gaps:

1. The concentrations of contaminants in surface soil/sediment and surface water in the creek and in areas linked to overflows of Batchelor Creek.
2. The concentrations of contaminants in surface and subsurface soil samples from residential properties adjacent to the SWP Site.
3. The concentrations of contaminants in the domestic supply wells in the vicinity of the Site.
4. The nature of the Site's geology/hydrogeology including Yazoo Clay and Cockfield Formation, including geochemical analyses in anticipation of bioremediation or MNA remedies.

With respect to Data Gap No. 1, sediment and surface water samples from within Batchelor Creek showed a decrease in overall concentrations of BaP TEQ compared to the 2008 ESI findings. These decreases are believed to be a result of prior remedial activities including excavation of sediment in the creek and installation of a slurry wall on the northern portion of the Site. Additionally, discharge of treated wastewater and high flow conditions have aided in the dispersion and attenuation of Site-related contaminants that may have entered the creek. The data collected in Phase 1 are sufficient to conduct a screening-level ecological risk assessment (SLERA). The conclusions drawn in the SLERA will dictate whether the ecological characterization (Phase 3) is warranted.

With respect to Data Gap No. 2, sampling in the residential neighborhood south of the Site showed several locations that exceeded the residential PRGs for BaP TEQ and dioxin in both surface and subsurface soils. Most of the locations were defined by Covington Dr. on the north, Barfield St. on the east and south, and Miller St. to the west. Sample results are pending for nine additional properties. Depending in part on these results, additional characterization may be warranted.

With respect to Data Gap No. 3, EPA's SESD was tasked with sampling wells within a one-mile radius of the Site. Upon arrival, an extensive discussion was conducted with personnel at Canton Municipal Utilities pertaining to the status of planned wells to sample. Other than an industrial well at an International Paper facility approximately one-quarter mile west of the Site, they knew of no active wells within their service area. Therefore there are no receptors at risk due to contamination of their domestic water supply.

With respect to Data Gap No. 4, the Phase 1 findings alter the previous understanding of the geology/hydrogeology significantly. Based on data available prior to the investigation, the Yazoo Clay was understood to range in thickness between 40 to 80 ft bls. The Cockfield Formation, a source of water for domestic supply wells in the Site vicinity, was expected to be encountered at 40 to 80 ft bls. In order to characterize the nature and competency of the Yazoo Clay, soil borings were planned at four locations with penetrations of 20 ft into the Cockfield Formation, or total depths of 60 to 100 ft bls. Further, monitoring wells were to be installed in the borings to evaluate if contaminants had penetrated the Yazoo Clay and impacted the underlying Cockfield Aquifer.

As described in Section 2.5, while advancing soil boring SWP004, it was discovered that the upper sand aquifer that regionally marks the top of the Cockfield Formation does not occur beneath the SWP Site. Instead it was found that the three distinct zones of the Yazoo Clay extend to a depth of approximately 40 to 50 ft bls. Underneath the Yazoo Clay is the Moodys Branch Formation which extends to approximately 82 ft bls where it unconformably transitions into the Cockfield Formation.

The scope of work for monitoring well installation was subsequently changed from four wells to maximum depths of 100 ft bls to two monitoring wells to about 300 ft bls. The findings of the soil boring investigation indicate that the NAPL and adsorbed phase contamination is largely confined to the zone from ground surface to about 30 ft bls. Borings SWP001 and SWP004 showed NAPL or evidence of NAPL to about 30 ft bls contained within the B zone of the Yazoo Clay, similar to what was found in the 2008 soil boring investigation where NAPL was discovered to depths of about 30 ft bls (Tetra Tech, 2009b). No phreatic or perched water was noted in the borings completed in the Phase 1 investigation although some of the soils were deemed moist to wet. Thus, the Site conceptual model appears to be limited to NAPL and adsorbed phase contamination.

Groundwater collected from monitoring wells MW001 and MW002 indicates that the groundwater is not impacted by Site-related contaminants. (The trace detection of phenanthrene in MW001 is likely attributable to drag down during well construction). Thus, the clay layer at the Site appears to be functioning as an effective barrier to vertical contaminant migration. Groundwater beneath the Site has not been impacted by Site-related contamination and the Cockfield Formation aquifer is not at risk from contamination in the future despite the existence of high levels of contamination trapped in the upper 30 ft of soil.

5.1 Recommendations

1. *Batchelor Creek and its tributaries*. Further investigations under Phase 2 of the RI may need to be completed to characterize sediment and surface water conditions within Batchelor Creek upstream of the SWP Site because contamination detected during the 2008 ESI suggests there may be another source of contamination upstream of the Site. If the SLERA concludes that the Phase 3 ecological characterization is warranted, additional characterization of sediment quality downstream of the Site can be conducted at that time.

2. *Residential properties adjacent to the SWP Site*. An additional nine locations were sampled in the residential neighborhood south of the Site in March/April 2013 to better define areas where high concentrations of dioxin and BaP TEQ were found; the results of this sampling are pending. Additional residential sampling during Phase 2 may be warranted.

3. *Former facility*. The unexpected findings of the soil boring investigation fundamentally change a key element of our CSM for the Site. Instead of the Cockfield Formation aquifer being impacted or at risk, it is neither. Potential remedies such as *in situ* chemical oxidation, *in situ* bioremediation, or solidification/stabilization that may have been considered were this not the case, are no longer potentially viable. The likely remedy is consolidation and containment/isolation of contaminated soil. That said, additional characterization is needed on the eastern and western sides of the Site so that quantities can be determined and the ultimate height of the containment cell can be approximated. The most economical approach to gather this data will be either DPT or a small sonic rig such as was used in the initial mobilization. Dakota Technology's Tar-specific Green Optical Screening Tool or TarGOST®, a valuable but expensive tool to delineate contaminant mass, is not needed. The reason for this is the distribution of the contaminant mass

is not expected to be as important a factor in remedy selection as it would be were an *in situ* technology such as those cited above be considered. A systematic investigation to depths of 12 ft bls spaced 100 ft apart as depicted in Figure 5-1 is proposed. This depth is based on the assumption that future use of the Site may result in excavations for building foundations, but the excavations would not exceed 12 ft bls.

4. *North of Site*. There are no soil data from north of Batchelor Creek. The former King's Lumber operations area has never been investigated. A modest DPT or sonic drilling investigation is proposed as shown in Figure 5-1. Should significant contamination be discovered, the investigation could be expanded in real time or in a separate mobilization.

6.0 References

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TABLES

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Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWPB01	SWP-SS-01A1	0-1	9/22/2008	Grab	Background sample collected off site, north of the former SWP property
	SWP-SB-01A2	1-4			
	SWP-SB-01B	4-8			
	SWP-SB-01C	8-12			
	SWP-SB-01D	12-16			
	SWP-SB-01E	16-20			
SWP02	SWP-SS-02A1	0-1	9/25/2008	Grab	On site, eastern portion of the former SWP property
	SWP-SB-02B	4-8			
SWP03	SWP-SS-03A1	0-1	9/25/2008	Grab	On site, central portion of the former SWP property, east of waste stockpile
	SWP-SB-03B	4-8			
SWP04	SWP-SS-04A1	0-1	9/25/2008	Grab	On site, in area of former PCP wood treating operations
	SWP-SB-04C	8-12			
	SWP-SB-04C-DUP				
SWP05	SWP-SS-05A1	0-1	9/24/2008	Grab	On site, north of Covington Dr, southeast of waste stockpile
	SWP-SB-05D	12-16			
SWP06	SWP-SS-06A1	0-1	9/24/2008	Grab	Southeastern corner of on-site waste stockpile
	SWP-SB-06B	4-8			
SWP07	SWP-SS-07A1	0-1	9/23/2008	Grab	Northeastern corner of on-site waste stockpile
	SWP-SB-07A2	1-4			
	SWP-SB-07A2-DUP				
SWP08	SWP-SS-08A1	0-1	9/24/2008	Grab	Southwestern corner of on-site waste stockpile
	SWP-SB-08C	8-12			

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Summary of Sample Types and Locations-2008, 2012, and 2013
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Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWP09	SWP-SS-09A1	0-1	9/24/2008	Grab	Northwestern corner of on-site waste stockpile
	SWP-SB-09C	8-12			
SWP10	SWP-SS-10A1	0-1	9/25/2008	Grab	On site, between waste stockpile and Batchelor Creek
	SWP-SB-10B	4-8			
SWP11	SWP-SS-11A1	0-1	9/24/2008	Grab	On site, west of waste stockpile and south of Batchelor Creek
	SWP-SB-11E	16-20			
SWP12	SWP-SS-12A1	0-1	9/23/2008	Grab	On site, north of Covington Dr, south of waste stockpile
	SWP-SB-12C	8-12			
SWP13	SWP-SS-13A1	0-1	9/22/2008	Grab	On site, north of Covington Dr, southwest of waste stockpile
	SWP-SB-13B	4-8			
SWP14	SWP-SS-14A1	0-1	9/24/2008	Grab	On site, western portion of the former SWP property
	SWP-SB-14D	2-4			
SWPR01	SWP-RSS-01	0-0.5	9/24/2008	Grab	Residential property located at 459 Barfield St
	SWP-RSB-01	1-2			
SWPR02	SWP-RSS-02	0-0.5	9/24/2008	Grab	Residential property located at 464 Covington Dr
	SWP-RSB-02	1-2			
SWPR03	SWP-RSS-03	0-0.5	9/25/2008	Grab	Residential property located at 364 Miller St
	SWP-RSS-03-DUP				
	SWP-RSB-03	1-2			

Table 3-1
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Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWPR04	SWP-RSS-04	0-0.5	9/24/2008	Grab	Residential property located at 543 Barfield St
	SWP-RSB-04	1-2			
SWPR05	SWP-RSS-05	0-0.5	9/24/2008	Grab	Residential property located at 605 Barfield St
	SWP-RSB-05	1-2			
SWPR06	SWP-RSS-06	0-0.5	9/24/2008	Grab	Residential property located at 359 Miller St
	SWP-RSB-06	1-2			
SWP201	SWP201_0.5	0-0.5	10/24/2012	Composite	Residential property located at 364 Miller St (Parcel #093D-19A-245/00.00)
	SWP201_1.0	0.5-1			
	SWP9201_1.0 (dup)	0.5-1			
SWP202	SWP202_0.5	0-0.5	10/29/2012	Composite	Property located at 464 Covington St (Parcel #093D-19A-266/00.00)
	SWP202_1.0	0.5-1			
	SWP9202_1.0 (dup)	0.5-1			
SWP203	SWP203_0.5	0-0.5	10/29/2012	Composite	Property located at 464 Covington St (Parcel #093D-19A-279/01.00)
	SWP9203_0.5 (dup)	0-0.5			
	SWP203_1.0	0.5-1			
SWP204	SWP204_0.5	0-0.5	10/26/2012	Composite	Property located southside of Covington Dr (Parcel #093D-19A-279/02.00)
	SWP204_1.0	0.5-1			
SWP205	SWP205_1.0	0.5-1	10/25/2012	Composite	Property located southside of Covington Dr (Parcel #093D-20B-235/00.00)
	SWP205_1.5	1-1.5			
SWP206	SWP206_0.5	0-0.5	10/25/2012	Composite	Property located southside of Covington Dr (Parcel #093D-20B-229/00.00)
	SWP206_1.0	0.5-1			

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWP207	SWP207_0.5	0-0.5	10/25/2012	Composite	Property located southside of Covington Dr (Parcel #093D-20B-127/00.00)
	SWP9207_0.5 (dup)	0-0.5			
	SWP207_1.0	0.5-1			
SWP208	SWP208_0.5	0-0.5	10/26/2012	Composite	Residential property located at 340 Miller St (Parcel #093D-19A-241/00.00)
	SWP208_1.0	0.5-1			
SWP209	SWP209_0.5	0-0.5	10/24/2012	Composite	Residential property located at 435 Barfield Ave (Parcel #093D-19A-249/00.00)
	SWP209_1.0	0.5-1			
SWP210	SWP210_0.5	0-0.5	10/24/2012	Composite	Residential property located at 465 Barfield Ave (Parcel #093D-19A-250/00.00)
	SWP9210_0.5 (dup)	0-0.5			
	SWP210_1.0	0.5-1			
SWP211	SWP211_0.5	0-0.5	10/24/2012	Composite	Residential property located at 543 Barfield St (Parcel #093D-19A-256/00.00)
	SWP211_1.0	0.5-1			
SWP212	SWP212_0.5	0-0.5	10/26/2012	Composite	Residential property located at 563 Barfield St (Parcel #093D-20B-227/00.00)
	SWP212_1.0	0.5-1			
	SWP9212_1.0 (dup)	0.5-1			
SWP213	SWP213_0.5	0-0.5	10/24/2012	Composite	Property located at 605 Barfield St (Parcel #093D-20B-240/03.00)
	SWP213_1.0	0.5-1			

Table 3-1
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Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWP214	SWP214_0.5	0-0.5	10/29/2012	Composite	Property located at 562 Barfield St (Parcel #093D-20B-221/00.00)
	SWP214_1.0	0.5-1			
SWP215	SWP215_0.5	0-0.5	10/24/2012	Composite	Residential property located at 522 Barfield St (Parcel #093D-19A-212/00.00)
	SWP215_1.0	0.5-1			
SWP216	SWP216_0.5	0-0.5	10/24/2012	Composite	Residential property located at 456 Barfield St (Parcel #093D-19A-218/00.00)
	SWP216_1.0	0.5-1			
SWP217	SWP217_0.5	0-0.5	10/24/2012	Composite	Residential property located at 328 Miller St (Parcel #093D-19A-219/00.00)
	SWP217_1.0	0.5-1			
SWP218	SWP218_0.5	0-0.5	10/24/2012	Composite	Residential property located at 362 North St E (Parcel #093D-19A-187/01.00)
	SWP218_1.0	0.5-1			
SWP219	SWP219_0.5	0-0.5	10/24/2012	Composite	Residential property located at 335 Miller St (Parcel #093D-19A-239/00.00)
	SWP219_1.0	0.5-1			
SWP220	SWP220_0.5	0-0.5	10/24/2012	Composite	Residential property located at 353 Miller St (Parcel #093D-19A-236/00.00)
	SWP220_1.0	0.5-1			
SWP221	SWP221_0.5	0-0.5	10/26/2012	Composite	Residential property located at 367 Miller St (Parcel #093D-19A-227/00.00)
	SWP221_1.0	0.5-1			
SWP222	SWP222_0.5	0-0.5	10/27/2012	Composite	Property located at 381 Miller St (Parcel #093D-19A-266/00.00)
	SWP222_1.0	0.5-1			

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWP223	SWP223_0.5	0-0.5	10/25/2012	Composite	Property located at 388 Miller St (Parcel #093D-19A-229/00.00)
	SWP223_1.0	0.5-1			
SWP224	SWP224_0.5	0-0.5	10/25/2012	Composite	International Paper Industrial Property (Parcel #093D-19A-224/00.00)
	SWP224_1.0	0.5-1			
	SWP9224_1.0 (dup)	0.5-1			
SWP225	SWP225_0.5	0-0.5	10/25/2012	Composite	Property at 329 East North St. (Parcel #093D-19A-222/02.00)
	SWP225_1.0	0.5-1			
SWP226	SWP226_0.5	0-0.5	1/23/2013	Composite	Property located southside of Covington Dr (Parcel #093D-19A-263/00.00)
	SWP226_1.0	0.5-1			
SWP227	SWP227_0.5	0-0.5	1/23/2013	Composite	Property located at 548 Covington Dr (Parcel #093D-19A-262/00.00)
	SWP9227_0.5 (dup)	0-0.5			
SWP228	SWP228_0.5	0-0.5	1/23/2013	Composite	Residential property located southside of Covington Dr (Parcel #093D-20B-236/00.00)
SWP229	SWP229_0.5	0-0.5	1/23/2013	Composite	Residential property located at 605 Barfield St (Parcel #093D-20B-226/00.00)
	SWP229_1.0	0.5-1			
SWP230	SWP230_0.5	0-0.5	1/23/2013	Composite	Property located at 464 Covington Dr (Parcel #093D-19A-265/02.00)
SWP231	SWP231_0.5	0-0.5	1/23/2013	Composite	Residential Property located at 435 Barfield St (Parcel #093D-19A-249/00.00)
SWP232	SWP232_0.5	0-0.5	1/23/2013	Composite	Residential property located at 340 Miller St (Parcel #093D-19A-242/00.00)
SWP233	SWP233_0.5	0-0.5	1/23/2013	Composite	Residential property located at 525 Barfield (Parcel #093D-19A-253/00.00)

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Soil Samples					
SWP234	SWP234_0.5	0-0.5	1/24/2013	Composite	Residential property located at 519 Barfield St (Parcel # 093D-19A-252/00.00)
SWP235	SWP235_0.5	0-0.5	1/24/2013	Composite	Residential property located at 535 Barfield St (Parcel # 093D-19A-255/00.00)
SWP236	SWP236_0.5	0-0.5	1/24/2013	Composite	Property located at 605 Barfield St (Parcel # 093D-20B-228/00.00)
	SWP236_1.0	0.5-1			
SWP001	SWP001_19	18-19	1/8/2013	Grab	Onsite near northwest edge of stockpile; soil boring became monitoring well MW001
	SWP001_69	68-69			
	SWP9001_69 (dup)	68-69			
	SWP001_296	295-296	1/10/2013	Grab	
SWP002	SWP002_12	6-12	1/12/2013	Grab	Onsite, southeastern portion of site near scale house and silo; soil boring became monitoring well MW002
	SWP002_67.5	66.5-67.5			
	SWP002_300	298-300	1/15/2013	Grab	
SWP004	SWP004_15	15-15.5	11/6/2012	Grab	Onsite, northwest portion of site near Batchelor Creek; soil boring abandoned
	SWP004_60	60-60.5		Grab	
	SWP004_70	70-70.5		Grab	
Contaminated Soil Stockpile Samples					
SWP-WS-01	SWP-WS-01	3	2/28/2008	Composite	Contaminated Soil Stockpile
SWP-WS-02	SWP-WS-02	0.5-2			
	SWP-WS-02D (dup)	0.5-2			
SWP-WS-03	SWP-WS-03	1.7-2			
Surface Water Samples					
SWPBC01	SWP-SW-01		9/23/2008	Grab	Batchelor Creek, upstream of SWP site
SWPBC05	SWP-SW-05		9/23/2008	Grab	Batchelor Creek, at the confluence of the ditch located southwest of the historical SWP property boundary
	SWP-SW-05-DUP				

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Surface Water Samples					
SWPBC06	SWP-SW-06		9/23/2008	Grab	Batchelor Creek, downstream of SWP property and east of U.S. Highway 51
SWPBC08	SWP-SW-08		9/22/2008	Grab	Batchelor Creek, downstream of SWP property, and the park located near Union Street
SWPT01	SWP-SW-12		9/24/2008	Grab	Tributary 1 of Batchelor Creek, northeast of SWP
SWPT03	SWP-SW-14		9/23/2008	Grab	Tributary 3 of Batchelor Creek, north of SWP
SWPT04	SWP-SW-15		9/23/2008	Grab	Tributary 4 of Batchelor Creek, northwest of SWP
SWPBC12	SWP-PIPE-01		9/24/2008	Grab	Outfall from pipe leading from the water treatment facility directly south of SWP
SWP101	SWP101SW		10/27/2012	Grab	Batchelor Creek at the Miller Street Bridge; Downstream of SWP Site (Parcel # 093D-19A-266/00.00)
SWP102	SWP102SW		10/28/2012	Grab	Batchelor Creek at the Dobson Avenue Bridge; Downstream of the SWP Site (Parcel # 093D-19B-317/00.00)
SWP103	SWP103SW		10/27/2012	Grab	Batchelor Creek at the Liberty Avenue Bridge; Downstream of the SWP Site (Parcel # 093D-19B-295/00.00)
SWP107	SWP107SW		10/28/2012	Grab	Batchelor Creek at the Martin Luther King Street Bridge; Downstream of the SWP Site (Parcel # 092F-13D-158/00.00)
SWP108	SWP108SW		10/27/2012	Grab	Batchelor Creek at the Kings Ranch Road Crossing; Downstream of the SWP Site (Parcel # 092A-12-004/01.00 (sampled from road/city right-of-way, parcel is closest to sample point))
SWP109	SWP109SW		10/28/2012	Grab	Batchelor Creek at the I-55 Road Crossing; Downstream of the SWP Site (Parcel # 092A-11-004/01.00)
SWP111	SWP111SW		10/28/2012	Grab	Bear Creek at the Old Yazoo City Road Bridge; Downstream of confluence with Batchelor Creek (Parcel #102H-34-001/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point)

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Surface Water Samples					
SWP112	SWP112SW		10/28/2012	Grab	Bear Creek at the Heindl Road Bridge; Upstream of confluence with Batchelor Creek (Parcel # 092B-01-008/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point))
SWP113	SWP113SW		10/27/2012	Grab	Batchelor Creek; At the edge of the edge of the riprap lining; Downstream of the SWP Site (Parcel #092F-13B-001/01.00 (cross property to access creek, sampled within City of Canton right-of way))
	SWP9113SW (dup)		10/27/2012		
Sediment Samples					
SWP-SD-01	SWP-SD-01	0-0.5	2/28/2008	Grab	Batchelor Creek, near the western edge of the on-site waste stockpile (Location excavated in 2009)
SWP-SD-02	SWP-SD-02	0-0.5	2/28/2008	Grab	Batchelor Creek, downstream of the on-site waste stockpile and east of the intersection of Miller Street and Batchelor Creek
SWPBC01	SWP-SD-01	0-0.25	9/23/2008	Grab	Batchelor Creek, upstream of SWP site
SWPBC02	SWP-SD-02	0-0.25	9/23/2008	Grab	Batchelor Creek, adjacent eastern portion of the SWP property
SWPBC03	SWP-SD-03	0-0.25	9/23/2008	Grab	Batchelor Creek, adjacent to central portion of the SWP property
SWPBC04	SWP-SD-04	0-0.33	9/23/2008	Grab	Batchelor Creek, immediately west of the SWP property (Location excavated in 2009)
SWPBC05	SWP-SD-05	0-0.5	9/23/2008	Grab	Batchelor Creek, at the confluence of the ditch located southwest of the historical SWP property boundary
SWPBC06	SWP-SD-06	0-0.25	9/23/2008	Grab	Batchelor Creek, downstream of SWP property and east of U.S. Highway 51
SWPBC07	SWP-SD-07	0-0.25	9/23/2008	Grab	Batchelor Creek, downstream of SWP property, immediately upstream of U.S. Highway 51
SWPBC08	SWP-SD-08	1-1.2	9/22/2008	Grab	Batchelor Creek, downstream of SWP property, and the park located near Union Street
SWPBC09	SWP-SD-09	0-0.25	9/22/2008	Grab	Batchelor Creek, downstream of SWP property, immediately upstream of the railroad
SWPBC10	SWP-SD-10	0-0.25	9/22/2008	Grab	Batchelor Creek, downstream of SWP property
SWPBC11	SWP-SD-11	0-0.25	9/22/2008	Grab	Batchelor Creek, downstream of SWP property
SWPRSD01	SWP-RSD-01	0-0.25	9/24/2008	Grab	Ditch, south of SWP, within a residential area
SWPRSD02	SWP-RSD-02	0-0.25	9/24/2008	Grab	Ditch, south of SWP, within a residential area

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Sediment Samples					
SWPT01	SWP-SD-12	0-0.25	9/24/2008	Grab	Unnamed tributary of Batchelor Creek, northeast of SWP
SWPT03	SWP-SD-14	0-0.25	9/23/2008	Grab	Unnamed tributary of Batchelor Creek, north of SWP
	SWP-SD-14-DUP	0-0.25			
SWPT04	SWP-SD-15	0-0.33	9/23/2008	Grab	Unnamed tributary of Batchelor Creek, northwest of SWP
SWP101	SWP101	0-0.5	10/27/2012	Grab	Batchelor Creek at the Miller Street Bridge; Downstream of SWP Site (Parcel # 093D-19A-266/00.00)
SWP102	SWP102	0-0.5	10/28/2012	Grab	Batchelor Creek at the Dobson Avenue Bridge; Downstream of the SWP Site (Parcel # 093D-19B-317/00.00)
SWP103	SWP103	0-0.5	10/27/2012	Grab	Batchelor Creek at the Liberty Avenue Bridge; Downstream of the SWP Site (Parcel # 093D-19B-295/00.00)
SWP107	SWP107	0-0.5	10/28/2012	Grab	Batchelor Creek at the Martin Luther King Street Bridge; Downstream of the SWP Site (Parcel # 092F-13D-158/00.00)
SWP108	SWP108	0-0.5	10/27/2012	Grab	Batchelor Creek at the Kings Ranch Road Crossing; Downstream of the SWP Site (Parcel # 092A-12-004/01.00 (sampled from road/city right-of-way, parcel is closest to sample point))
SWP109	SWP109	0-0.5	10/28/2012	Grab	Batchelor Creek at the I-55 Road Crossing; Downstream of the SWP Site (Parcel # 092A-11-004/01.00)
SWP111	SWP111	0-0.5	10/28/2012	Grab	Bear Creek at the Old Yazoo City Road Bridge; Downstream of confluence with Batchelor Creek (Parcel #102H-34-001/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point)
SWP112	SWP112	0-0.5	10/28/2012	Grab	Bear Creek at the Heindl Road Bridge; Upstream of confluence with Batchelor Creek (Parcel # 092B-01-008/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point))
	SWP9112 (dup)	0-0.5	10/28/2012		

Table 3-1
Summary of Sample Types and Locations-2008, 2012, and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Station ID	Sample ID	Depth (ft bls)	Date Collected	Sample Type	Sample Location
Sediment Samples					
SWP113	SWP113	0-0.5	10/27/2012	Grab	Batchelor Creek; At the edge of the edge of the riprap lining; Downstream of the SWP Site (Parcel #092F-13B-001/01.00 (cross property to access creek, sampled within City of Canton right-of way))
Groundwater Samples					
MW001	MW001	290-300	1/22/2013	Grab	Onsite monitoring well near northwest edge of stockpile
MW002	MW002	300-310	1/22/2013	Grab	Onsite monitoring well in southeastern portion of site near scale house and silo

Notes
Data collected in 2012/2013 RI phase one by Black & Veatch and 2008 ESI by TetraTech
During the 2012/2013 investigation residential soils, surface water, and sediment sample locations were identified by parcel number

Abbreviations:

bls	Below land surface
dup	Duplicate
SWP	Southeastern Wood Preserving site

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Table 4-1
Dioxin in Batchelor Creek Sediment - 2008
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID						
			SWP-SD-01 (excavated)	SWP-SD-02	SWPBC01	SWPBC02	SWPBC03	SWPBC04 (excavated)	SWPBC05
			Sample Date						
			2/28/2008	2/28/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008
Dioxins (ng/kg)									
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	650	350	71000 J,O	12	5 U,J,O	5 U,J,O	5 U,J,O
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	380	200	890 J,O	5 U	5 U	5 U	5 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	14	8	50 U,J,O	5 U	5 U	5 U	5 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	2.8 J	2.2 J	50 U,J,O	5 U	5 U	5 U	5 U
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	5.3 O	3.7 O	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	25	11	50 U,J,O	5 U	5 U	5 U	5 U
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	4.7	3.1	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	7.4	4.5	7300 J,O	1.1 J,O	5 U	5 U	5 U
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	1.7 J	1.2 J	100 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	1.6 J	1.2 J	50 U,J,O	5 U	5 U	5 U	5 U
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	1.3 J	0.58 O	50 U,J,O	5 U	5 U	5 U	5 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	5.7	4.6	50 U,J,O	5 U	5 U	5 U	5 U
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	6.3	2.8 J	50 U,J,O	5 U	5 U	5 U	5 U
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.99 U	0.41 U	100 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.8 U	1.3	5100 J,O	1.6	0.1 U	0.1 U	0.1 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	2200	1200	24000 J,O	4.9 J,O	5 U	5 U	5 U
Heptachlorodibenzofuran (Total)	38998-75-3	--	1300	660	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	180	98	50 U,J,O	5 U	5 U	5 U	5 U
Hexachlorodibenzofuran (Total)	55684-94-1	--	280	150	50 U,J,O	5 U	5 U	5 U	5 U
Octachlorodibenzodioxin	3268-87-9	--	10000	5600	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O
Octachlorodibenzofuran	39001-02-0	--	1100	510	50 U,J,O	5 U	5 U	5 U	5 U
Pentachlorodibenzodioxin (Total)	36088-22-9	--	15	10	50 U,J,O	5 U	5 U	5 U	5 U
Pentachlorodibenzofuran (Total)	30402-15-4	--	48	31	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O
TEQ89 - mammalian	R4-8000953	50	30	16	50 U,J,O	5 U	5 U	5 U	5 U
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	3.4	15	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	6.9	6.3	100 U,J,O	10 U	10 U	10 U	10 U,J,O

Notes:

Value exceeds Residential Soil PRG

CAS - Chemical Abstract Service

PRG - preliminary remedial goals

ng/kg - nanograms per kilogram

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

(excavated) - Location excavated in 2009 during the CERCLA Remedial Action

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Table 4-2
Detected Semi-Volatile Organic Compounds in Batchelor Creek Sediment - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID						
			SWP-SD-01 (excavated)	SWP-SD-02	SWPBC01	SWPBC02	SWPBC03	SWPBC04 (excavated)	SWPBC05
			Sample Date						
			2/28/2008	2/28/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008
Semi-Volatile Organic Compound (SVOC) (µg/kg)									
(3-and/or 4-)Methylphenol	1319-77-3	--	13300 U	5040 U	240 U	3600 U	3200 U	4300 U	3100 U
1,1-Biphenyl	92-52-4	--	6660 U	2520 U	240 U	3600 U	3200 U	2900 J,O	3100 U
2-Methylnaphthalene	91-57-6	--	15600	2520 U	4.6 U	140 U	130 U	5900 U,J,O	400 U,J,O
Acenaphthene	83-32-9	3400000	14000	3030	4.6 U	140 U	130 U	20000	2000 J,O
Acenaphthylene	208-96-8	--	6660 U	2520 U	3.3 J,O	140 U	130 U	310	120 J,O
Anthracene	120-12-7	17000000	4410 J	1610 J	6.3	140 U	130 U	11000	1300 J,O
Benzo(a)anthracene	56-55-3	150	3580 J	1910 J	40	120 J,O	130 U	8000	2500
Benzo(a)pyrene	50-32-8	15	1200 J	706 J	32	77 J,O	110 J,O	1500	810
Benzo(b)fluoranthene	205-99-2	150	3000 J	1540 J	40	85 J,O	120 J,O	1700	900
Benzo(g,h,i)perylene	191-24-2	--	6660 U	2520 U	44	140 U	120 J,O	440	330
Benzo(k)fluoranthene	207-08-9	1500	6660 U	499 J	33	140 U	110 J,O	1700	850
Benzyl butyl phthalate	85-68-7	--	6660 U	2520 U	240 U	3600 U	3200 U	4300 U	3100 U
Carbazole	86-74-8	--	1580 J	2520 U	240 U	3600 U	3200 U	1600 J,O	3100 U
Chrysene	218-01-9	15000	3720 J	1860 J	60	140 U	99 J,O	7400	1400 J,O
Dibenzo(a,h)anthracene	53-70-3	15	6660 U	2520 U	8.5 J,O	140 U	130 U	170 U	110 J,O
Dibenzofuran	132-64-9	--	13100	1230 J	240 U	3600 U	3200 U	16000	1300 J,O
Fluoranthene	206-44-0	2300000	19400	9410	160	120 J,O	120 J,O	46000	14000
Fluorene	86-73-7	2300000	11300	3050	4.6 U	140 U	130 U	19000	1600 J,O
Indeno (1,2,3-cd) pyrene	193-39-5	150	6660 U	2520 U	30	84 J,O	150	740	460
Naphthalene	91-20-3	3600	35000	2520 U	2.6 J,O	140 U	130 U	6400	420
Pentachlorophenol	87-86-5	890	6660 U	2520 U	9.3 U,J,O	290 U	260 U	350 U	250 U
Phenanthrene	85-01-8	--	39100	14100	19	140 U	130 U	79000	10000
Pyrene	129-00-0	1700000	12200	6350	150	130 J,O	140	36000	7000
Benzo(a)pyrene TEQ	NA	15	1862	1058	52	106	138	2568	1316

Notes:

Value exceeds residential Soil PRG

-- - Not established

CAS - Chemical Abstract Service

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

(excavated) - Location excavated in 2009 during the CERCLA Remedial Action

Table 4-2
Detected Semi-Volatile Organic Compounds in Batchelor Creek Sediment - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID						
			SWPBC06	SWPBC07	SWPBC08	SWPBC09	SWPBC10	SWPBC11	SWPRSD01
			Sample Date						
			9/23/2008	9/23/2008	9/22/2008	9/22/2008	9/22/2008	9/22/2008	9/24/2008
Semi-Volatile Organic Compound (SVOC) (µg/kg)									
(3-and/or 4-)Methylphenol	1319-77-3	--	5600 U	5300 U	3400 U	3800 U	3900 U	4600 U	3100 U,J,O
1,1-Biphenyl	92-52-4	--	5600 U	5300 U	3400 U	3800 U	3900 U	4600 U	3100 U
2-Methylnaphthalene	91-57-6	--	220 U	210 U	140 U	150 U	150 U	180 U	120 U
Acenaphthene	83-32-9	3400000	180 J,O	210 U	140 U	150 U	150 U	180 U	120 U
Acenaphthylene	208-96-8	--	190 J,O	210 U	780	86 J,O	97 J,O	200	120 U
Anthracene	120-12-7	17000000	1100	440	1100	200	230	650	120 U
Benzo(a)anthracene	56-55-3	150	1400	1500	3500	530	730	2700	120 U
Benzo(a)pyrene	50-32-8	15	690	810	3700	370	460	960	120 U
Benzo(b)fluoranthene	205-99-2	150	810	1100	7400	420	500	1100	120 U
Benzo(g,h,i)perylene	191-24-2	--	340	360	1300	210	240	350	86 J,O
Benzo(k)fluoranthene	207-08-9	1500	700	820	3800	340	430	950	120 U
Benzyl butyl phthalate	85-68-7	--	5600 U	5300 U	3400 U	3800 U	3900 U	4600 U	3100 U
Carbazole	86-74-8	--	5600 U	5300 U	3400 U	3800 U	3900 U	4600 U	3100 U
Chrysene	218-01-9	15000	2100	2000	5600	740	1100	1200	120 U
Dibenzo(a,h)anthracene	53-70-3	15	220 U	210 U	140	150 U	150 U	180 U	120 U
Dibenzofuran	132-64-9	--	5600 U	5300 U	3400 U	3800 U	3900 U	4600 U	3100 U
Fluoranthene	206-44-0	2300000	1700	1300	2700	550	620	4200 J,O	64 J,O
Fluorene	86-73-7	2300000	260	140 J,O	320	150 U	150 U	160 J,O	120 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	480	530	140 U	290	330	530	76 J,O
Naphthalene	91-20-3	3600	130 J,O	210 U	140 U	150 U	150 U	6300	150
Pentachlorophenol	87-86-5	890	450 U	420 U	100 J,O	300 U	310 U	370 U	250 U
Phenanthrene	85-01-8	--	960	540	460	160	200	380	120 U
Pyrene	129-00-0	1700000	1900	1400	3300	610	680	2200	99 J,O
Benzo(a)pyrene TEQ	NA	15	968	1133	4974	498	621	1404	8

Notes:

Value exceeds residential Soil PRG

-- - Not established

CAS - Chemical Abstract Service

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain quali

(excavated) - Location excavated in 2009 during the CERCLA Rem

Table 4-2
Detected Semi-Volatile Organic Compounds in Batchelor Creek Sediment - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID							
			SWPRSD02	SWPT01	SWPT03 (excavated)	SWPT03 (dup, excavated)	SWPT04	SWP101	SWP102	SWP103
			Sample Date							
			9/24/2008	9/24/2008	9/23/2008	9/23/2008	9/23/2008	10/27/2012	10/28/2012	10/27/2012
Semi-Volatile Organic Compound (SVOC) (µg/kg)										
(3-and/or 4-)Methylphenol	1319-77-3	--	220 U	3300 U,J,O	2500 U	3300 U	3300 U	210 U	230 U	730
1,1-Biphenyl	92-52-4	--	220 U	3300 U	2500 U	3300 U	3300 U	210 U	230 U	250 U
2-Methylnaphthalene	91-57-6	--	4.2 U	130 U	99 U	130 U	130 U	210 U	230 U	250 U
Acenaphthene	83-32-9	3400000	4.2 U	130 U	99 U	130 U	130 U	210 U	230 U	250 U
Acenaphthylene	208-96-8	--	3.7 J,O	130 U	99 U	100 J,O	130 U	210 U	230 U	250 U
Anthracene	120-12-7	17000000	4.9	130 U	99 U	190	130 U	210 U	230 U,J,O	1400 J,O
Benzo(a)anthracene	56-55-3	150	16	130 U	460	1500	110 U	500	190 J,O	700
Benzo(a)pyrene	50-32-8	15	21	160	330	800	92 U	350	230 U	240 J,O
Benzo(b)fluoranthene	205-99-2	150	24	190	430	1100	120 U	470	230 U	230 J,O
Benzo(g,h,i)perylene	191-24-2	--	20	66 J,O	150	500	130 U	180 J,O	230 U	250 U
Benzo(k)fluoranthene	207-08-9	1500	20 J,O	190	410	1100	89 U	390	230 U	250
Benzyl butyl phthalate	85-68-7	--	220 U	3300 U	2500 U	3300 U	3300 U	210 U	390	250 U
Carbazole	86-74-8	--	220 U	3300 U	2500 U	3300 U	3300 U	210 U	230 U	250 U
Chrysene	218-01-9	15000	23	70 J,O	430	1500	160	590	160 J,O	840
Dibenzo(a,h)anthracene	53-70-3	15	4.2 J,O	130 U	71 J,O	200	130 U	210 U	230 U	250 U
Dibenzofuran	132-64-9	--	220 U	3300 U	2500 U	3300 U	3300 U	210 U	230 U	250 U
Fluoranthene	206-44-0	2300000	38	100 J,O	370	650	140	990	710 J,O	2100 J,O
Fluorene	86-73-7	2300000	4.2 U	130 U	99 U	130 U	130 U	210 U	230 U	140 J,O
Indeno (1,2,3-cd) pyrene	193-39-5	150	22 J,O	96 J,O	230	880	84 J,O	180 J,O	230 U	250 U
Naphthalene	91-20-3	3600	3.6 J,O	150	57 J,O	88 J,O	130 U	230	230 U	250 U
Pentachlorophenol	87-86-5	890	4.1 J,O	260 U,J,O	200 U	270 U,J,O	260 U	410 U	440 U	490 U
Phenanthrene	85-01-8	--	11	150	99 U	120 J,O	130 U	260	92 J,O	1000
Pyrene	129-00-0	1700000	40	110 J,O	490	690	140	680	490 J,O	1300 J,O
Benzo(a)pyrene TEQ	NA	15	32	191	518	1361	124	469	19	336

Notes:

Value exceeds residential Soil PRG

-- - Not established

CAS - Chemical Abstract Service

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain quali

(excavated) - Location excavated in 2009 during the CERCLA Rem

Table 4-2
Detected Semi-Volatile Organic Compounds in Batchelor Creek Sediment - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID						
			SWP107	SWP108	SWP109	SWP111	SWP112	SWP112 (dup)	SWP113
			Sample Date						
			10/28/2012	10/27/2012	10/28/2012	10/28/2012	10/28/2012	10/28/2012	10/27/2012
Semi-Volatile Organic Compound (SVOC) (µg/kg)									
(3-and/or 4-)Methylphenol	1319-77-3	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
1,1-Biphenyl	92-52-4	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
2-Methylnaphthalene	91-57-6	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Acenaphthene	83-32-9	3400000	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Acenaphthylene	208-96-8	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Anthracene	120-12-7	17000000	270 J,O	240 U	220 U	200 U	230 U,J,O	180 U	210 U
Benzo(a)anthracene	56-55-3	150	730	240 U	220 U	200 U	230 U	180 U	210 U
Benzo(a)pyrene	50-32-8	15	430	240 U	220 U	200 U	230 U	180 U	210 U
Benzo(b)fluoranthene	205-99-2	150	580	240 U	220 U	200 U	230 U	180 U	210 U
Benzo(g,h,i)perylene	191-24-2	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Benzo(k)fluoranthene	207-08-9	1500	550	240 U	220 U	200 U	230 U	180 U	210 U
Benzyl butyl phthalate	85-68-7	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Carbazole	86-74-8	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Chrysene	218-01-9	15000	1000	240 U	220 U	200 U	230 U	180 U	210 U
Dibenzo(a,h)anthracene	53-70-3	15	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Dibenzofuran	132-64-9	--	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Fluoranthene	206-44-0	2300000	1300	240 U	220 U	200 U	230 U,J,O	180 U	210 U
Fluorene	86-73-7	2300000	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Naphthalene	91-20-3	3600	300 U	240 U	220 U	200 U	230 U	180 U	210 U
Pentachlorophenol	87-86-5	890	580 U	470 U	430 U	390 U	440 U	350 U	410 U
Phenanthrene	85-01-8	--	270 J,O	240 U	220 U	200 U	230 U	180 U	210 U
Pyrene	129-00-0	1700000	870	240 U	220 U	200 U	230 U,J,O	180 U	210 U
Benzo(a)pyrene TEQ	NA	15	568	ND	ND	ND	ND	ND	ND

Notes:

Value exceeds residential Soil PRG

-- - Not established

CAS - Chemical Abstract Service

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain quali

(excavated) - Location excavated in 2009 during the CERCLA Rem

Table 4-3
Detected Semi-Volatile Organic Compounds in Surface Water - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	NRWQC (ug/L)	Sample ID						
			SWPBC01 (Background)	SWPBC03	SWPBC05	SWPBC05 (dup)	SWPBC06	SWPBC08	SWPBC12
			Sample Date						
			9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/23/2008	9/22/2008	9/24/2008
Semi-Volatile Organic Compound (SVOC) (µg/L)									
2-Methylnaphthalene	91-57-6	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1.4
Acenaphthene	83-32-9	670	0.1 U	0.1 U	0.081 J,O	0.089 J,O	0.12 U	0.12	0.1 U
Benzo(a)pyrene	50-32-8	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.15
Benzo(b)fluoranthene	205-99-2	0.0038	0.1 U	0.1 U	0.1 U	0.052 J,O	0.1 U	0.1 U	0.1 U
Bis(2-ethylhexyl) phthalate	117-81-7	1.2	5 U	5 U	5 U	5 U	5 U,J,O	5 U,J,O	5 U,J,O
Caprolactam	105-60-2	--	5 U,J,O	5 U,J,O	5 U,J,O	5 U,J,O	5 U,J,O	5 U,J,O	5 U
Chrysene	218-01-9	0.0038	0.1 U	0.1 U	0.08 J,O	0.08 J,O	0.1 U	0.1 U	0.1 U
Fluoranthene	206-44-0	130	0.1 U	0.1 U	0.37 U	0.4 U	0.079 J,O	0.11	0.1 U
Fluorene	86-73-7	1100	0.1 U	0.1 U	0.1 U	0.1 U	0.062 J,O	0.059 J,O	0.1 U
Naphthalene	91-20-3	--	0.15 U,J,O	0.11 U	0.11 U	0.13 U	0.13 U	0.12	0.43
Pentachlorophenol	87-86-5	0.27	0.2 U,J,O	0.073 J,O	0.061 J,O	0.075 J,O	0.065 J,O	0.2 U,J,O	0.2 U,J,O
Phenanthrene	85-01-8	--	0.1 U	0.1 U	0.1 U	0.1 U	0.07 J,O	0.1 U	0.052 J,O
Pyrene	129-00-0	830	0.1 U	0.1 U	0.46 U	0.51 U	0.1 U	0.1 U	0.09 J,O
Total SVOCs	NA	NA	ND	0.073	0.141	0.296	0.276	0.289	2.122

Notes:

Value exceeds NRWQC

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

µg/L - micrograms per liter

NA - Not Applicable

ND - Not Detected

NRWQC - National Recommended Water Quality Criteria for human health (consumption of water and organisms)

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-3
Detected Semi-Volatile Organic Compounds in Surface Water - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	NRWQC (ug/L)	Sample ID						
			SWPT01	SWPT03	SWPT04	SWP101	SWP102	SWP103	SWP107
			Sample Date						
			9/24/2008	9/23/2008	9/23/2008	10/27/2012	10/28/2012	10/27/2012	10/28/2012
Semi-Volatile Organic Compound (SVOC) (µg/L)									
2-Methylnaphthalene	91-57-6	--	0.1 U	0.1 U	0.1 U	0.32	0.12	0.12	0.13
Acenaphthene	83-32-9	670	0.1 U	0.1 U	0.1 U	0.063 J,O	0.12	0.1 U	0.1 U
Benzo(a)pyrene	50-32-8	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	205-99-2	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bis(2-ethylhexyl) phthalate	117-81-7	1.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Caprolactam	105-60-2	--	5 U,J,O	5 U,J,O	5 U,J,O	5 U	5 U	5 U	5 U
Chrysene	218-01-9	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	206-44-0	130	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.11	0.1 U
Fluorene	86-73-7	1100	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	91-20-3	--	0.17	0.089 J,O	0.1	0.33	0.094 J,O	0.09 J,O	0.099 J,O
Pentachlorophenol	87-86-5	0.27	0.2 U,J,O	0.14 J,O	0.08 J,O	0.2 U	0.2 U	0.2 U	0.2 U,J,O
Phenanthrene	85-01-8	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.13	0.1 U
Pyrene	129-00-0	830	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total SVOCs	NA	NA	0.17	0.229	0.18	0.713	0.434	0.45	0.229

Notes:

Value exceeds NRWQC

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

µg/L - micrograms per liter

NA - Not Applicable

ND - Not Detected

NRWQC - National Recommended Water Quality Criteri

U - The analyte was not detected at or above the report

J - Estimated Value

O - Other qualifiers, provided from the laboratory to exp

Table 4-3
Detected Semi-Volatile Organic Compounds in Surface Water - 2008, 2012
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	NRWQC (ug/L)	Sample ID					
			SWP108	SWP109	SWP111	SWP112	SWP113	SWP113 (dup)
			Sample Date					
			10/27/2012	10/28/2012	10/28/2012	10/28/2012	10/27/2012	10/27/2012
Semi-Volatile Organic Compound (SVOC) (µg/L)								
2-Methylnaphthalene	91-57-6	--	0.1 U	0.1 U	0.1 U	0.1 U	0.11	0.12
Acenaphthene	83-32-9	670	0.1 U	0.1 U	0.21	0.1 U	0.1 U	0.1 U
Benzo(a)pyrene	50-32-8	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Benzo(b)fluoranthene	205-99-2	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Bis(2-ethylhexyl) phthalate	117-81-7	1.2	5 U	5 U	5 U	5 U	5 U	11
Caprolactam	105-60-2	--	5 U	5 U	5 U	5.1	5 U	5 U
Chrysene	218-01-9	0.0038	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluoranthene	206-44-0	130	0.1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Fluorene	86-73-7	1100	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Naphthalene	91-20-3	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Pentachlorophenol	87-86-5	0.27	0.2 U,J,O	0.2 U,J,O	0.2 U,J,O	0.2 U,J,O	0.2 U,J,O	0.2 U,J,O
Phenanthrene	85-01-8	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Pyrene	129-00-0	830	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total SVOCs	NA	NA	0.1	ND	0.21	5.1	0.11	11.12

Notes:

Value exceeds NRWQC

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

µg/L - micrograms per liter

NA - Not Applicable

ND - Not Detected

NRWQC - National Recommended Water Quality Criteri

U - The analyte was not detected at or above the report

J - Estimated Value

O - Other qualifiers, provided from the laboratory to exp

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Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWPB01 (Background)	SWP02	SWP03	SWP04	SWP05	SWP06	SWP07	SWP08	SWP09
			Sample Date								
			9/22/2008	9/25/2008	9/25/2008	9/25/2008	9/24/2008	9/24/2008	9/23/2008	9/24/2008	9/24/2008
			Depth Interval (ft bls)								
			0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	200 U	4500 U	3000 U	2600 U	2800 U	2600 U	2900 U	850 J,O	2600 U
2-Methylnaphthalene	91-57-6	--	3.9 U	170 J,O	460	560 U	160 U	650 U	80 J,O	2800 J,O	430
Acenaphthene	83-32-9	3400000	3.9 U	94 J,O	470 U	390 U	85 J,O	6400 U	260	5900	500
Acenaphthylene	208-96-8	--	3.9 U	320 J,O	320 J,O	3800 U,J,O	280 U,J,O	950 U,J,O	2600	310	5000
Anthracene	120-12-7	17000000	2.1 J,O	760 J,O	3800	7400	1700 J,O	34000 J,O	5100	4300	6600
Benzaldehyde	100-52-7	--	200 U	4500 U	3000 U	2600 U	2800 U,J,O	2600 U,J,O	2900 U	2300 U	2600 U
Benzo(a)anthracene	56-55-3	150	11	220 U,J,O	3200 U	19000 U	2000 U	14000 U	10000	1400	22000
Benzo(a)pyrene	50-32-8	15	12	360 U,J,O	2200 J,O	27000 U,J,O	1800 U,J,O	7900 J,O	13000	610	17000
Benzo(b)fluoranthene	205-99-2	150	12	710 J,O	2600	40000 U	2500 U	20000 U	20000	850	26000
Benzo(g,h,i)perylene	191-24-2	--	5.7	980 J,O	900	24000 U	1200 U	5400 U	5700	690	8900
Benzo(k)fluoranthene	207-08-9	1500	11 J,O	520 J,O	2500	30000 U	2200 U	9900 U	13000	690	24000
Chrysene	218-01-9	15000	13	390	4500	23000	3300	19000	15000	1900	30000
Dibenzo(a,h)anthracene	53-70-3	15	3.9 U,J,O	140 J,O	270	8100	360	1500	3100	140	4400
Dibenzofuran	132-64-9	--	200 U	4500 U	1300 J,O	750 J,O	2800 U	3300	2900 U	4100	2600 U
Diethyl phthalate	84-66-2	--	200 U	4500 U	3000 U	2600 U	2800 U	2600 U	2900 U	2300 U	2600 U
Fluoranthene	206-44-0	2300000	21	560	11000	22000	7300	79000	6200	9000	14000
Fluorene	86-73-7	2300000	3.9 U	170 J,O	890	420	120	6800	940	5300	3400
Indeno (1,2,3-cd) pyrene	193-39-5	150	7.3 J,O	870	1800	24000	1500	5400	7800	780	12000
Naphthalene	91-20-3	3600	3.1 J,O	210	680	990	210	690	300	5200	1500
Pentachlorophenol	87-86-5	890	7.9 U,J,O	370	250 U	7500 J,O	370 J,O	900 J,O	910 J,O	340	820 J,O
Phenanthrene	85-01-8	--	6.8	460	7400	3100	790	33000	1700 J,O	17000	6600
Pyrene	129-00-0	1700000	23	670	7900	27000	5000	69000	10000	6800	14000
Benzo(a)pyrene TEQ	NA	15	15	304	2940	10523	513	9959	20025	1062	27670

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP10	SWP11	SWP12	SWP13	SWP14	SWPR01	SWPR02	SWPR03	SWPR03 (dup)
			Sample Date								
			9/25/2008	9/24/2008	9/23/2008	9/22/2008	9/24/2008	9/24/2008	9/24/2008	9/25/2008	9/25/2008
			Depth Interval (ft bls)								
			0-1	0-1	0-1	0-1	0-1	0-0.5	0-0.5	0-0.5	0-0.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	25000 J,O	2300 U	2200 U	2900 U	3200 U	190 U	190 U	220 U	110 U
2-Methylnaphthalene	91-57-6	--	49000	830	89 U	120 U	130 U	3.8 U	3.6 U	3.4 J,O	80 J,O
Acenaphthene	83-32-9	3400000	46000	1200	89 U	120 U	130 U	3.8 U	3.6 U	4.3 U	180
Acenaphthylene	208-96-8	--	2500	1400	89 U	220	85 J,O	3.8 U	7.4	14	99 J,O
Anthracene	120-12-7	17000000	70000	3100	80 J,O	650	200	3.8 U	12	19	220
Benzaldehyde	100-52-7	--	2300 U	2300 U	2200 U	2900 U	3200 U,J,O	190 U	190 U	220 U	110 U
Benzo(a)anthracene	56-55-3	150	35000	7100	120	700	360	2.2 J,O	18	19	320
Benzo(a)pyrene	50-32-8	15	9500	6900	100	510	560	3.9	33	43	290
Benzo(b)fluoranthene	205-99-2	150	23000	12000	220	1100	910	4.8	23	59 J,O	400
Benzo(g,h,i)perylene	191-24-2	--	3300	5800	97	580	300	4	27	29	180
Benzo(k)fluoranthene	207-08-9	1500	11000	7500	160	780	690	4	36 J,O	43 J,O	330
Chrysene	218-01-9	15000	33000	9600	290	1400	620	3.5 J,O	32	43	430
Dibenzo(a,h)anthracene	53-70-3	15	1100	2800	89 U	130	100 J,O	2 J,O	6.7 J,O	7.8 J,O	110 U
Dibenzofuran	132-64-9	--	64000	940 J,O	2200 U	2900 U	3200 U	190 U	190 U	220 U	110 U
Diethyl phthalate	84-66-2	--	2300 U,R,O	2300 U	2200 U	2900 U	3200 U	190 U	190 U	220 U	110 U
Fluoranthene	206-44-0	2300000	120000	16000	340	1400	450	3.6 J,O	41	110 J,O	660
Fluorene	86-73-7	2300000	54000	1800	89 U	120 U	130 U	3.8 U	3.6 U	4.3 U	84 J,O
Indeno (1,2,3-cd) pyrene	193-39-5	150	4300	5800	140	730	460	4.7	37 J,O	39 J,O	250
Naphthalene	91-20-3	3600	65000	2300	89 J,O	110 J,O	180	5	4.6	7.3	250
Pentachlorophenol	87-86-5	890	740 J,O	640	79 J,O	550	150 J,O	7.7 U	7 J,O	8.2 J,O	280
Phenanthrene	85-01-8	--	210000	8000	190	290	180	2.3 J,O	19	80 J,O	320
Pyrene	129-00-0	1700000	82000	13000	300	1500	590	4.4	46	2.8 J,O	930
Benzo(a)pyrene TEQ	NA	15	16973	12275	150	902	841	7	48	63	391

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWPR04	SWPR05	SWPR06	SWP201	SWP202	SWP203	SWP203 (dup)	SWP204	SWP205
			Sample Date								
			9/24/2008	9/24/2008	9/24/2008	10/24/2012	10/29/2012	10/29/2012	10/29/2012	10/26/2012	10/25/2012
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0.5-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	220 U	200 U	210 U	200 U	190 U	210 U	200 U	230 U	190 U
2-Methylnaphthalene	91-57-6	--	3.1 J,O	2 J,O	4.2 U	200 U	190 U	210 U	200 U	230 U	190 U
Acenaphthene	83-32-9	3400000	11	3.9 U	4.2 U	200 U	190 U	210 U	200 U	230 U	190 U
Acenaphthylene	208-96-8	--	230	22	5.6	200 U	190 U	210 U	200 U	95 J,O	190 U
Anthracene	120-12-7	17000000	410	24	6.7	200 U,J,O	190 U,J,O	160 J,O	230	200 J,O	190 U,J,O
Benzaldehyde	100-52-7	--	220 U	200 U	210 U	200 U,J,O	190 U	210 U	200 U	230 U,J,O	190 U,J,O
Benzo(a)anthracene	56-55-3	150	1400	60	8	200 U	190 U	370	570	640	190 U
Benzo(a)pyrene	50-32-8	15	1300	68	14	200 U	190 U	410	560	690	97 J,O
Benzo(b)fluoranthene	205-99-2	150	2500	130	19	200 U	190 U	800	1200	1200	180 J,O
Benzo(g,h,i)perylene	191-24-2	--	860	48	13	200 U	190 U	220	400	560	81 J,O
Benzo(k)fluoranthene	207-08-9	1500	2000	97	13 J,O	200 U	190 U	610	760	1100	120 J,O
Chrysene	218-01-9	15000	2800	140	12	200 U	190 U	840	1100	1200	160 J,O
Dibenzo(a,h)anthracene	53-70-3	15	300 J,O	20	3.4 J,O	200 U	190 U	110 J,O	200	270	190 U
Dibenzofuran	132-64-9	--	220 U	200 U	210 U	200 U	190 U	210 U	200 U	230 U	190 U
Diethyl phthalate	84-66-2	--	220 U	200 U	210 U	200 U	190 U	210 U	200 U	230 U	190 U
Fluoranthene	206-44-0	2300000	3400	110	12	83 J,O	190 U,J,O	960 J,O	930	910 J,O	210 J,O
Fluorene	86-73-7	2300000	12	4	4.2 U	200 U	190 U	210 U	200 U	230 U	190 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	1300	68	17 J,O	200 U	190 U	230	420	590	190 U
Naphthalene	91-20-3	3600	13	5.4	3.6 J,O	200 U	190 U	210 U	200 U	230 U	190 U
Pentachlorophenol	87-86-5	890	340 J,O	21 J,O	3.5 J,O	390 U	370 U	400 U	390 U	440 U	380 U
Phenanthrene	85-01-8	--	300 J,O	12	3.9 J,O	200 U	190 U	140 J,O	200 U	230 U	190 U
Pyrene	129-00-0	1700000	2800	140	15	200 U,J,O	190 U,J,O	900 J,O	890	870 J,O	180 J,O
Benzo(a)pyrene TEQ	NA	15	2143	115	22	ND	ND	667	988	1215	116

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP206	SWP207	SWP207 (dup)	SWP208	SWP209	SWP210	SWP210 (dup)	SWP211	SWP212
			Sample Date								
			10/25/2012	10/25/2012	10/25/2012	10/26/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/26/2012
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	190 U	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
2-Methylnaphthalene	91-57-6	--	190 U	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Acenaphthene	83-32-9	3400000	380	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Acenaphthylene	208-96-8	--	190 U	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Anthracene	120-12-7	17000000	660	210 U	210 U,J,O	190 U	190 U	190 U,J,O	190 U,J,O	170 J,O	220 U
Benzaldehyde	100-52-7	--	190 U	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Benzo(a)anthracene	56-55-3	150	2500	210 U	210 U	190 U	190 U	190 U	190 U	300	220 U
Benzo(a)pyrene	50-32-8	15	2100	210 U	210 U	190 U	190 U	190 U	190 U	350	220 U
Benzo(b)fluoranthene	205-99-2	150	2800	210 U	210 U	190 U	190 U	190 U	190 U	730	230
Benzo(g,h,i)perylene	191-24-2	--	1700	210 U	210 U	190 U	190 U	190 U	190 U	240	220 U
Benzo(k)fluoranthene	207-08-9	1500	1400	210 U	210 U	190 U	190 U	190 U	190 U	480	220 U
Chrysene	218-01-9	15000	2600	210 U	210 U	190 U	190 U	190 U	190 U	620	220 U
Dibenzo(a,h)anthracene	53-70-3	15	570	210 U	210 U	190 U	190 U	190 U	190 U	91 J,O	220 U
Dibenzofuran	132-64-9	--	150 J,O	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Diethyl phthalate	84-66-2	--	190 U	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Fluoranthene	206-44-0	2300000	5900	210 U	210 U,J,O	190 U	190 U	190 U,J,O	190 U,J,O	510	220 U
Fluorene	86-73-7	2300000	250	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	1600	210 U	210 U	190 U	190 U	190 U	190 U	260	220 U
Naphthalene	91-20-3	3600	90 J,O	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Pentachlorophenol	87-86-5	890	370 U,J,O	410 U,J,O	410 U	370 U,J,O	380 U	370 U	370 U	410 U,J,O	420 U,J,O
Phenanthrene	85-01-8	--	2700	210 U	210 U	190 U	190 U	190 U	190 U	210 U	220 U
Pyrene	129-00-0	1700000	4000	210 U	210 U,J,O	190 U	190 U	190 U,J,O	190 U,J,O	500	220 U
Benzo(a)pyrene TEQ	NA	15	3377	ND	ND	ND	ND	ND	ND	575	23

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP213	SWP214	SWP215	SWP216	SWP217	SWP218	SWP219	SWP220	SWP221
			Sample Date								
			10/24/2012	10/29/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/26/2012
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
2-Methylnaphthalene	91-57-6	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Acenaphthene	83-32-9	3400000	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Acenaphthylene	208-96-8	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Anthracene	120-12-7	17000000	210 U	210 U	220 U,J,O	190 U,J,O	220 U,J,O	220 U	200 U,J,O	200 U,J,O	200 U
Benzaldehyde	100-52-7	--	210 U	210 U	220 U	190 U,J,O	220 U,J,O	220 U	200 U,J,O	200 U,J,O	200 U
Benzo(a)anthracene	56-55-3	150	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Benzo(a)pyrene	50-32-8	15	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Benzo(b)fluoranthene	205-99-2	150	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Benzo(g,h,i)perylene	191-24-2	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Benzo(k)fluoranthene	207-08-9	1500	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Chrysene	218-01-9	15000	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Dibenzo(a,h)anthracene	53-70-3	15	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Dibenzofuran	132-64-9	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Diethyl phthalate	84-66-2	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Fluoranthene	206-44-0	2300000	210 U	210 U	220 U,J,O	190 U,J,O	220 U,J,O	220 U	200 U,J,O	200 U,J,O	200 U
Fluorene	86-73-7	2300000	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Naphthalene	91-20-3	3600	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Pentachlorophenol	87-86-5	890	400 U,J,O	410 U	420 U	370 U	420 U	420 U	380 U	390 U	390 U,J,O
Phenanthrene	85-01-8	--	210 U	210 U	220 U	190 U	220 U	220 U	200 U	200 U	200 U
Pyrene	129-00-0	1700000	210 U	210 U	220 U,J,O	190 U,J,O	220 U,J,O	220 U	200 U,J,O	200 U,J,O	200 U
Benzo(a)pyrene TEQ	NA	15	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP222	SWP223	SWP224	SWP225	SWP226	SWP227	SWP227 (dup)	SWP228	SWP229
			Sample Date								
			10/27/2012	10/25/2012	10/25/2012	10/25/2012	1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)											
1,1-Biphenyl	92-52-4	--	230 U	190 U,J,O	200 U	190 U	45 U	41 U	41 U	46 U	45 U
2-Methylnaphthalene	91-57-6	--	230 U	190 U	200 U	190 U	45 U	87	41 U	46 U	45 U
Acenaphthene	83-32-9	3400000	230 U	190 U	200 U	190 U	45 U	41 U	41 U	46 U	45 U
Acenaphthylene	208-96-8	--	230 U	190 U	200 U	190 U	85	94	41 U	46 U	45 U
Anthracene	120-12-7	17000000	230 U	190 U	200 U	190 U	200	230	85	75	47
Benzaldehyde	100-52-7	--	230 U	190 U	200 U	190 U	450 U	410 U	410 U	460 U	58 J,O
Benzo(a)anthracene	56-55-3	150	230 U	190 U,J,O	200 U	190 U	1300	1100	480	430	250
Benzo(a)pyrene	50-32-8	15	230 U	190 U	200 U	190 U	1500	1300	550	490	410
Benzo(b)fluoranthene	205-99-2	150	220 J,O	190 U	200 U	190 U	3700	3400	1400	1100 J,O	880
Benzo(g,h,i)perylene	191-24-2	--	230 U	190 U	200 U	190 U	730	890	280	210	220
Benzo(k)fluoranthene	207-08-9	1500	200 J,O	190 U	200 U	190 U	2800	2400	1000	820	640
Chrysene	218-01-9	15000	230 U	190 U,J,O	200 U	190 U	2600	2400	1000	900	600
Dibenzo(a,h)anthracene	53-70-3	15	230 U	190 U	200 U	190 U	230	220	73	81	68
Dibenzofuran	132-64-9	--	230 U	190 U	200 U	190 U	68	93	41 U	46 U	45 U
Diethyl phthalate	84-66-2	--	230 U	190 U,J,O	230	190 U	450 U	410 U	410 U	460 U	450 U
Fluoranthene	206-44-0	2300000	230 U	190 U,J,O	200 U	190 U	2300	1700	720	790	540
Fluorene	86-73-7	2300000	230 U	190 U	200 U	190 U	45 U	42	41 U	46 U	45 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	230 U	190 U	200 U	190 U	820	890	280	240	230
Naphthalene	91-20-3	3600	230 U	190 U	200 U	190 U	100	130	44	46 U	45 U
Pentachlorophenol	87-86-5	890	440 U	370 U,J,O	390 U,J,O	370 U,J,O	120 J	140 J,O	58 J,O	67 J,O	73 J,O
Phenanthrene	85-01-8	--	230 U	190 U	200 U	190 U	330	340	110	95	130
Pyrene	129-00-0	1700000	230 U	190 U,J,O	200 U	190 U	2200	1800	720	770	560
Benzo(a)pyrene TEQ	NA	15	24	ND	ND	ND	2343	2085	850	757	621

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

Table 4-4
Detected Semi-Volatile Organic Compounds in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID						
			SWP230	SWP231	SWP232	SWP233	SWP234	SWP235	SWP236
			Sample Date						
			1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/24/2013	1/24/2013	1/24/2013
			Depth Interval (ft bls)						
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)									
1,1-Biphenyl	92-52-4	--	46 U	45 U	44 U	46 U	43 U	92 U	40 U
2-Methylnaphthalene	91-57-6	--	53	45 U	44 U	53	43 U	92 U	40 U
Acenaphthene	83-32-9	3400000	46 U	45 U	44 U	46 U	43 U	92 U	40 U
Acenaphthylene	208-96-8	--	94	45 U	44 U	46 U	43 U	180	40 U
Anthracene	120-12-7	17000000	310	45 U	79	110	43 U	700	40 U
Benzaldehyde	100-52-7	--	460 U	250 J,O	52 J,O	460 U	430 U	920 U	400 U
Benzo(a)anthracene	56-55-3	150	1800	45 U	170	400	46	4500	40 U
Benzo(a)pyrene	50-32-8	15	1800	45 U	180	550	62	3800	40 U
Benzo(b)fluoranthene	205-99-2	150	4800	45 U	200	1300	120	10000	40 U
Benzo(g,h,i)perylene	191-24-2	--	730	45 U	81	250	43 U	92 U	40 U
Benzo(k)fluoranthene	207-08-9	1500	3500	45 U	160	970	91	6300	40 U
Chrysene	218-01-9	15000	3700	45 U	200	910	96	8200	40 U
Dibenzo(a,h)anthracene	53-70-3	15	250	45 U	44 U	91	43 U	92 U	40 U
Dibenzofuran	132-64-9	--	83	45 U	44 U	69	43 U	120	40 U
Diethyl phthalate	84-66-2	--	460 U	450 U	440 U	460 U	430 U	920 U	400 U
Fluoranthene	206-44-0	2300000	3200	45 U	440	650	88	8800	40 U
Fluorene	86-73-7	2300000	46 U	45 U	44 U	46 U	43 U	92 U	40 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	850	45 U	81	290	43 U	1700	40 U
Naphthalene	91-20-3	3600	130	45 U	44 U	160	43 U	190	40 U
Pentachlorophenol	87-86-5	890	180 J,O	450 U	440 U	120 J	430 U	500 J,O	400 U
Phenanthrene	85-01-8	--	460	45 U	360	220	43 U	890	40 U
Pyrene	129-00-0	1700000	3400	45 U	360	680	72	6800	40 U
Benzo(a)pyrene TEQ	NA	15	2834	ND	227	851	80	5491	ND

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting li

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain

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Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWPB01 (Background)	SWP02	SWP03	SWP04	SWP05	SWP06	SWP11	SWP13	SWPR01
			Sample Date								
			9/22/2008	9/25/2008	9/25/2008	9/25/2008	9/24/2008	9/24/2008	9/24/2008	9/22/2008	9/24/2008
			Depth Interval (ft bls)								
			0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	18	71000 J,O	12	14 U,J,O	5 U,J,O	5 U,J,O	13	14	14
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	81	890 J,O	5 U	9500 U	5 U	5 U	2600	6600	79
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	170	50 U,J,O	5 U	14000 U	5 U	5 U	1500	4500	69
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	2.4 J,O	50 U,J,O	5 U	510 U	5 U	5 U	56	240	1.2 J,O
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	1.2 J,O	50 U,J,O	5 U	59 U,J,O	5 U,J,O	5 U,J,O	8.5	38	0.76 J,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	6.8	50 U,J,O	5 U	240 U	5 U	5 U	33	170	1.9 J,O
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	7	50 U,J,O	5 U	650 U,J,O	5 U,J,O	5 U,J,O	94	250	2.8 J,O
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	2.9 J,O	7300 J,O	1.1 J,O	62 U	5 U	5 U	7.7	69	1.2 J,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	3.1 J,O	100 U,J,O	10 U,J,O	140 U,J,O	10 U,J,O	10 U,J,O	19	80	2 J,O
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	0.94 J,O	50 U,J,O	5 U	30 J,O	5 U	5 U	4.9	22	0.28 J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	0.63 J,O	50 U,J,O	5 U	12 J,O	5 U	5 U	3.6 J,O	20 J,O	0.56 J,O
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	0.55 U,O	50 U,J,O	5 U	6.1 J,O	5 U	5 U	1.2 J,O	4.2 J,O	0.27 J,O
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	3.4 J,O	50 U,J,O	5 U	120 U	5 U	5 U	14	100	1.6 J,O
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	5.4	100 U,J,O	10 U,J,O	27 J,O	10 U,J,O	10 U,J,O	7.8 J,O	35 J,O	1.1 J,O
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.28 J,O	5100 J,O	1.6	1.5 U,J,O	0.1 U	0.1 U	0.27 U,J,O	0.85 J,O	0.1 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.5 U	24000 J,O	4.9 J,O	3.2 U,J,O	5 U	5 U	0.64 U,J,O	1.6 U,O	0.34 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	140 J,O	100 U,J,O	10 U	24000 J,O	10 U,J,O	10 U,J,O	7400 J,O	15000 J,O	150 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	280 J,O	50 U,J,O	5 U	51000 J,O	5 U	5 U	6200 J,O	15000 J,O	130 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	34 J,O	50 U,J,O	5 U	2700 J,O	5 U	5 U	470 J,O	1100 J,O	22 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	160 J,O	100 U,J,O	10 U	9700 J,O	10 U,J,O	10 U,J,O	1200 J,O	4600 J,O	45 J,O
Octachlorodibenzodioxin	3268-87-9	--	600	50 U,J,O	5 U	100000 U	5 U	5 U	32000 J,O	65000 J,O	1200
Octachlorodibenzofuran	39001-02-0	--	54	50 U,J,O	5 U	20000 U	5 U	5 U	3400	14000	82
Pentachlorodibenzodioxin (Total)	36088-22-9	--	6.5 J,O	50 U,J,O	5 U	160 J,O	5 U,J,O	5 U,J,O	26 J,O	94 J,O	3.2 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	37 J,O	50 U,J,O	5 U	120 J,O	5 U	5 U	34 J,O	210 J,O	12 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	11 J,O	100 U,J,O	10 U	280 U,J,O	10 U,J,O	10 U,J,O	44 J,O	170	3.8 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	7.7 J,O	100 U,J,O	10 U	280 U	10 U	10 U,J,O	41 J,O	160	3.1 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	7.9 J,O	3000 J,O	1	430 U	0.1 U	0.1 U	77 J,O	240	4 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	0.95 J,O	67 J,O	0.1 U,J,O	25 J,O	0.1 U	0.1 U	6.7 J,O	20 J,O	0.76 J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	1.4 J,O	50 U,J,O	5 U	22 J,O	5 U	5 U	7.2 J,O	32 J,O	3.4 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWPR02	SWPR03	SWPR04	SWPR05	SWPR06	SWP201	SWP202	SWP203	SWP203 (dup)
			Sample Date								
			9/24/2008	9/25/2008	9/24/2008	9/24/2008	9/24/2008	10/24/2012	10/29/2012	10/29/2012	10/29/2012
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	10	23	20	17	20	18	9.8	17	NA
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	580	1400	8800	1600	600	1300	820	13000	NA
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	220	470	5500	1400	640	650	380	8700 J,O	NA
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	8.7	21	280	44	14	22	13	280	NA
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	4 J,O	14	81 J,O	9	8	13	7	50 J,O	NA
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	4 J,O	12	94 J,O	17	25	17	7.8	100	NA
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	16	44	390 J,O	65	24	38	25	380 J,O	NA
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	2.4 J,O	11	35 J,O	7.4	11	13	5.4	51 J,O	NA
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	9	30	87 J,O	16	12	27	14	110 J,O	NA
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	0.61 U,O	2.1 U	15 J,O	2.4 J,O	2.5 J,O	3.7 J,O	1.4 J,O	25 J,O	NA
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	1.4 J,O	5.4	11	2.1 J,O	2.3 J,O	4.4 J,O	2.5 J,O	6.4	NA
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	0.28 J,O	0.89 J,O	1.6 J,O	0.45 J,O	1.2 J,O	1.6 U	0.6 J,O	2.8 J,O	NA
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	4.7 J,O	16	82 J,O	17	13	21	9.7	110 J,O	NA
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	1.1 J,O	5.2	11	1.7 J,O	13	9.7	3.2 J,O	8.7 J,O	NA
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.11 U	1.5	0.14 U,J,O	0.11 U	0.28 U,O	0.33 U	0.32 J,O	0.24 J,O	NA
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.2 U,O	0.51 U	0.31 U,J,O	0.27 U,O	0.81 J,O	0.68 J,O	0.41 U	0.39 U	NA
Heptachlorodibenzodioxin (Total)	37871-00-4	--	1200 J,O	2500 J,O	25000 J,O	4400 J,O	1600 J,O	2500 J,O	1700 J,O	36000 J,O	NA
Heptachlorodibenzofuran (Total)	38998-75-3	--	700 J,O	1200 J,O	22000 J,O	5300 J,O	1400 J,O	1800 J,O	1000 J,O	31000 J,O	NA
Hexachlorodibenzodioxin (Total)	34465-46-8	--	110 J,O	290 J,O	2700 J,O	410 J,O	260 J,O	270 J,O	180 J,O	2800 J,O	NA
Hexachlorodibenzofuran (Total)	55684-94-1	--	150 J,O	380 J,O	5500 J,O	900 J,O	480 J,O	620 J,O	280 J,O	6200 J,O	NA
Octachlorodibenzodioxin	3268-87-9	--	6600 J,O	12000 J,O	74000 J,O	13000	5100 J,O	12000 J,O	8100 J,O	110000 J,O	NA
Octachlorodibenzofuran	39001-02-0	--	740	1000	23000	4300	890	1300	1000	38000	NA
Pentachlorodibenzodioxin (Total)	36088-22-9	--	7.6 J,O	30 J,O	100 J,O	19 J,O	34 J,O	29 J,O	18 J,O	100 J,O	NA
Pentachlorodibenzofuran (Total)	30402-15-4	--	18 J,O	81 J,O	240 J,O	50 J,O	120 J,O	110 J,O	40 J,O	58 J,O	NA
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	8.9 J,O	29	140 J,O	30	31 J,O	34 J,O	16 J,O	180 J,O	NA
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	9.2 J,O	29	160 J,O	31	26 J,O	32 J,O	16 J,O	190 J,O	NA
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	16 J,O	45	270 J,O	53	30 J,O	44 J,O	26 J,O	360 J,O	NA
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	0.29 J,O	5.2 J,O	19 J,O	2.4 J,O	5.4 J,O	3.9 J,O	2.5 J,O	13 J,O	NA
Tetrachlorodibenzofuran (Total)	30402-14-3	--	2.2 J,O	10 J,O	28 J,O	4.2 J,O	20 J,O	19 J,O	7.1 J,O	30 J,O	NA

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP204	SWP205	SWP206	SWP207	SWP207 (dup)	SWP208	SWP209	SWP210	SWP210 (dup)
			Sample Date								
			10/26/2012	10/25/2012	10/25/2012	10/25/2012	10/25/2012	10/26/2012	10/24/2012	10/24/2012	10/24/2012
			Depth Interval (ft bls)								
			0-0.5	0.5-1	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	25	18	15	19	19	12	14	14	13
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	18000	820	820	120	110 J,O	1400	360	240	230
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	11000	520	580	30	21	30000	340	200	230
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	300	17	17 J,O	1.5 J,O	1.1 U,O	320	13	5.8	6.6
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	41 J,O	3.1 U,O	7.2 J,O	0.94 U	1.1 J,O	44	2.4 J,O	1.7 J,O	1.9 J,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	120 J,O	6.7	17 J,O	1 U,O	0.93 J,O	760	17	5.3	6.8
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	410	21	24 J,O	2.9 J,O	2.9 J,O	230	13	8.2	8.8
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	36 J,O	2.3 J,O	10 J,O	0.58 U,O	0.58 J,O	360	8.3	3.1 J,O	3.5 J,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	110	6.6	4.4 J,O	2 J,O	1.7 J,O	60	6.6	4.4 J,O	4.9 J
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	41 J,O	1.2 J,O	4.3 J,O	0.56 U	0.26 U	87	2.5 J,O	0.76 U	0.9 J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	19	0.84 J,O	3.5 U,O	0.42 U,O	0.3 U,O	24	1.4 U,O	1 J,O	0.96 U
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	2.8 J,O	0.32 U,O	1.9 U	0.2 U	0.15 U	20	1.9 U	0.39 U	0.55 J,O
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	120	5.7	13 J,O	1 U,O	0.91 J,O	340	9.5	4.6 J,O	5.2
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	26 J,O	0.98 U	11 J,O	0.45 U	0.27 U	190	6.2	2.7 J,O	2.6 J,O
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.46 U	0.14 U	0.47 U	0.17 U	0.081 U	4.7	0.34 U	0.12 U	0.16 U,O
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.33 U,O	0.3 U	0.75 U	0.24 J,O	0.18 U,O	6 J,O	1.3 J,O	0.57 U,O	0.46 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	54000 J,O	2200 J,O	1900 J,O	320 J,O	270 J,O	2600 J,O	680 J,O	530 J,O	480 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	44000 J,O	2000 J,O	1400 J,O	89 J,O	57 J,O	50000 J,O	860 J,O	480 J,O	520 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	3300 J,O	160 J,O	230 J,O	38 J,O	34 J,O	1500 J,O	96 J,O	64 J,O	65 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	8000 J,O	370 J,O	450 J,O	24 J,O	20 J,O	15000 J,O	240 J,O	140 J,O	140 J,O
Octachlorodibenzodioxin	3268-87-9	--	180000 J,O	10000 J,O	8800	1400	1300	8000	3200	2600	2400
Octachlorodibenzofuran	39001-02-0	--	52000	2200	1600	86	54	13000	820	400	420
Pentachlorodibenzodioxin (Total)	36088-22-9	--	81 J,O	6.3 J,O	48 J,O	5.8 J,O	4 J,O	230 J,O	21 J,O	9.9 J,O	9.3 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	81 J,O	17 J,O	34 J,O	4.6 J,O	4.7 J,O	1400 J,O	64 J,O	26 J,O	25 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	250 J,O	12 J,O	30 J,O	2.5 J,O	1.8 J,O	700	18 J,O	9 J,O	9.4 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	250 J,O	12 J,O	26 J,O	2.3 J,O	1.9 J,O	610	14 J,O	7.5 J,O	8.1 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	480 J,O	23 J,O	33 J,O	3.6 J,O	3 J,O	600	18 J,O	10 J,O	11 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	17 J,O	1.2 J,O	6.3 J,O	0.73 J,O	0.28 J,O	52 J,O	11 J,O	2.5 J,O	3.1 J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	27 J,O	1.6 J,O	16 J,O	1 J,O	1.4 J,O	120 J,O	28 J,O	8.5 J,O	8 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP211	SWP212	SWP213	SWP214	SWP215	SWP216	SWP217	SWP218	SWP219
			Sample Date								
			10/24/2012	10/26/2012	10/24/2012	10/29/2012	10/24/2012	10/29/2012	10/24/2012	10/24/2012	10/24/2012
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	21	24	20	19	23	20	23	20	15
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	19000	7600	120	59	1600	150	140	150	320
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	13000	4300	56	38	890	620	190	680	380
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	440	130	1.8 U,O	1.5 J,O	27	7.7	3.5 J,O	9.4	9.5
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	52 J,O	24	1.2 U,O	0.7 J,O	8.5	1.8 J,O	1.6 J,O	2.2 J,O	4.1 J,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	110 J,O	47	1.5 J,O	1.1 J,O	14	22	7.3	25	21
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	430	190	4 J,O	1.9 J,O	42	18	5.9	21	12
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	45 J,O	22	1.4 J,O	1 U,O	6.3	12	4.3 J,O	14	12
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	120 J,O	56	2.7 J,O	1.4 J,O	19	8.6	3.8 J,O	8	12
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	13 J,O	8.3 J,O	1.1 U	0.31 U	2.4 J,O	2.5 J,O	0.91 U	3.3 J,O	3.1 J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	5	6.6	0.8 J,O	0.3 U,O	2.5 J,O	1.8 J,O	0.76 J,O	1.9 J,O	2.2 J,O
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	2.4 J,O	1.6 U	0.41 U	0.13 U	0.52 U	1.3 U	0.49 U	1.6 U	1.1 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	120 J,O	49	1.6 J,O	1.4 J,O	12	16	5.6	19	15
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	13 J,O	7.9	0.41 U	0.34 U	3.9 J,O	14	5.6	18	16
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.29 U	0.29 U	0.16 U	0.1 U	0.25 U	0.32 U	0.11 U	0.36 U,O	0.39 U,O
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.47 J,O	0.67 U	0.21 U	0.16 U	0.5 J,O	1.1 J,O	0.52 J,O	1.2 J,O	0.58 J,O
Heptachlorodibenzodioxin (Total)	37871-00-4	--	57000 J,O	20000 J,O	260 J,O	130 J,O	3800 J,O	290 J,O	250 J,O	270 J,O	710 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	54000 J,O	17000 J,O	130 J,O	92 J,O	3100 J,O	1000 J,O	330 J,O	1100 J,O	740 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	3400 J,O	1200 J,O	41 J,O	18 J,O	290 J,O	140 J,O	51 J,O	160 J,O	140 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	9400 J,O	3200 J,O	45 J,O	32 J,O	600 J,O	470 J,O	190 J,O	560 J,O	450 J,O
Octachlorodibenzodioxin	3268-87-9	--	190000	71000 J,O	1700	590	18000 J,O	1000	1400	1000	4000 J,O
Octachlorodibenzofuran	39001-02-0	--	64000	21000	100	84	3400	250	140	270	320
Pentachlorodibenzodioxin (Total)	36088-22-9	--	54 J,O	60 J,O	5.8 J,O	1.7 J,O	30 J,O	24 J,O	8 J,O	27 J,O	31 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	50 J,O	140 J,O	6.7 J,O	6.4 J,O	44 J,O	130 J,O	54 J,O	170 J,O	160 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	250 J,O	98 J,O	3.4 J,O	2 J,O	26 J,O	31 J,O	12 J,O	36 J,O	31 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	250 J,O	100 J,O	3.3 J,O	1.9 J,O	26 J,O	22 J,O	8.7 J,O	26 J,O	23 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	500 J,O	200 J,O	4.8 J,O	2.5 J,O	46 J,O	23 J,O	9.4 J,O	26 J,O	24 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	10 J,O	9 J,O	0.71 J,O	3.1 J,O	7.8 J,O	6.4 J,O	1.8 J,O	8.4 J,O	5.7 J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	16 J,O	26 J,O	1.7 J,O	0.43 J,O	9.5 J,O	34 J,O	11 J,O	46 J,O	24 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP220	SWP221	SWP222	SWP223	SWP224	SWP225	SWP226	SWP227	SWP227 (dup)
			Sample Date								
			10/24/2012	10/26/2012	10/27/2012	10/25/2012	10/25/2012	10/25/2012	1/23/2013	1/23/2013	1/23/2013
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	17	16	19	16	19	12	23	16	16
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	260	640	1500	32000	280	370	11000 J,O	5100 J,O	5600 J,O
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	530	320	570	5000	200	360	9200 J,O	3900 J,O	4300 J,O
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	8.1	12	23	380	6.7	12	270 J,O	120 J,O	130 J,O
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	2.2 J,O	6.7	9.7	320	2.4 J,O	2 J,O	47	17	22
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	21	11	13	130	7.1	11	120	43	59
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	14	22	44	750	8.6	13	350	160	170
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	10	5.6	6.9	180	4.1 J,O	4.4 J,O	43	18	25
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	6.6	11	22	650	5.9	4.3 J,O	86	36	43
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	3.4 J,O	1.5 J,O	2.1 J,O	22 J,O	1 J,O	1.6 J,O	22	6.4 J,O	10
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	1.8 U,O	2.7 J,O	4.1 J,O	79	0.92 J,O	0.72 J,O	17	5 U,O	8.4 U,O
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	1 U	0.4 J,O	0.53 U	13	0.61 U	0.49 U	2.7 U,O	2.6 U	2.2 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	16	7.5	12	380	6.2	5.2	110 J,O	45 J,O	58 J,O
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	25	5	4.1 J,O	55	3.3 J,O	4.1 J,O	7.6 U,O	5.1 U,O	8.2 U,O
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.28 U,O	0.43 J,O	0.18 J,O	6	0.29 U	0.13 U	1.2 U	1.3 U	1.1 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.74 U,O	0.17 U	0.22 U	2.7 J,O	0.24 U	0.29 U	2 U	1.4 U	1.9 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	550 J,O	1400 J,O	3600 J,O	52000 J,O	770 J,O	1100 J,O	32000 J,O	15000 J,O	16000 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	930 J,O	890 J,O	1900 J,O	15000 J,O	510 J,O	1000 J,O	35000 J,O	15000 J,O	16000 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	98 J,O	160 J,O	320 J,O	4600 J,O	91 J,O	100 J,O	2500 J,O	1100 J,O	1200 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	610 J,O	260 J,O	480 J,O	8300 J,O	160 J,O	240 J,O	5200 J,O	2300 J,O	2600 J,O
Octachlorodibenzodioxin	3268-87-9	--	4000 J,O	10000 J,O	15000 J,O	340000	7700 J,O	5500 J,O	110000 J,O	58000 J,O	69000 J,O
Octachlorodibenzofuran	39001-02-0	--	290	750	2100	14000	380	860	34000 J,O	14000 J,O	16000 J,O
Pentachlorodibenzodioxin (Total)	36088-22-9	--	15 J,O	20 J,O	22 J,O	670 J,O	13 J,O	7.9 J,O	140 J,O	64 J,O	97 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	220 J,O	42 J,O	43 J,O	1600 J,O	30 J,O	28 J,O	340 J,O	180 J,O	230 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	39 J,O	18 J,O	24 J,O	430	11 J,O	13 J,O	190 J,O	83 J,O	100 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	27 J,O	17 J,O	24 J,O	480	9.2 J,O	11 J,O	200 J,O	83 J,O	100 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	26 J,O	24 J,O	43 J,O	820	13 J,O	16 J,O	350 J,O	150 J,O	180 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	6.3 J,O	3.7 J,O	1.8 J,O	52 J,O	2.9 J,O	1.3 J,O	6.3 J,O	2.8 J,O	1.3 J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	33 J,O	4.9 J,O	5.6 J,O	210 J,O	5.4 J,O	2.4 J,O	18 J,O	13 J,O	12 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-5
Dioxin in Surface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID								
			SWP228	SWP229	SWP230	SWP231	SWP232	SWP233	SWP234	SWP235	SWP236
			Sample Date								
			1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/24/2013	1/24/2013	1/24/2013
			Depth Interval (ft bls)								
			0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Dioxins (ng/kg)											
% Moisture	E1644012	--	26	25	22	23	24	26	23	27	17
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	5700 J,O	7700 J,O	15000 J,O	370 J,O	440 J,O	15000 J,O	750 J,O	31000 J,O	850 J,O
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	5400 J,O	6600 J,O	14000 J,O	490 J,O	1100 J,O	13000 J,O	960 J,O	30000 J,O	220 U,O
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	170 J,O	210 J,O	480 J,O	17 U,O	18 J,O	360 J,O	26 U,O	1000 J,O	17 J,O
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	26	35 U,O	76	3.9 U,O	4.2 U,O	50	3 U	120	13 U,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	66	62	160	14 U,O	34	120	28 U,O	300	6.2 J,O
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	210	260	540	19	28	500	34 U,O	1200	38
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	28	30	66	9.5 J,O	18 U,O	45	19	130	8 U,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	55	66 U,O	130	9 U,O	8.9 J,O	110	11	270	34
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	11	16 U,O	27 U,O	1.6 U	3.5 U,O	23	4.9 U,O	51	1.7 J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	9.4 U,O	12	20	1.5 J,O	2 U	9.4 U,O	1.7 U	35	4.5 U,O
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	1.7 U	2.2 U	7.5 J,O	2.8 U	2 U	1.8 U	1.9 U	4.2 J,O	1.6 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	64 J,O	61 J,O	160 J,O	13 U,O	24 J,O	110 J,O	19 U,O	280 J,O	7.1 U,O
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	2.9 U,O	3.8 U,O	3.2 U,O	4.3 J,O	16	5.8 U,O	9.3 J,O	6 U,O	1.7 U
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	2.2 U	0.94 U	1.1 U	0.95 U	1.4 U	0.88 U	0.95 U	1.5 U	0.81 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	6.2 U,J,O	1.4 U	2.4 U	1.4 U,O	1.8 U	1.4 U	1.8 U	2.6 U	1 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	15000 J,O	23000 J,O	40000 J,O	860 J,O	980 J,O	42000 J,O	1900 J,O	78000 J,O	1400 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	21000 J,O	26000 J,O	58000 J,O	1200 J,O	2200 J,O	52000 J,O	2600 J,O	120000 J,O	520 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	1300 J,O	1900 J,O	3300 J,O	120 J,O	180 J,O	3100 J,O	210 J,O	6200 J,O	260 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	3300 J,O	4000 J,O	8100 J,O	330 J,O	880 J,O	7300 J,O	660 J,O	16000 J,O	210 J,O
Octachlorodibenzodioxin	3268-87-9	--	59000 J,O	83000 J,O	150000 J,O	4100 J,O	4500 J,O	180000 J,O	8600 J,O	310000 J,O	7500 J,O
Octachlorodibenzofuran	39001-02-0	--	22000 J,O	27000 J,O	54000 J,O	1000 U,O	1300 U,O	60000 J,O	2400 J,O	98000 J,O	410 U,J,O
Pentachlorodibenzodioxin (Total)	36088-22-9	--	51 J,O	77 J,O	140 J,O	8.7 J,O	17 J,O	92 J,O	9.1 J,O	190 J,O	21 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	170 J,O	230 J,O	470 J,O	140 J,O	320 J,O	420 J,O	160 J,O	740 J,O	55 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	120 J,O	130 J,O	270 J,O	19 J,O	42 J,O	240 J,O	34 J,O	540 J,O	19 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	120 J,O	140 J,O	290 J,O	17 J,O	34 J,O	250 J,O	28 J,O	570 J,O	20 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	200 J,O	240 J,O	500 J,O	21 J,O	37 J,O	460 J,O	38 J,O	1000 J,O	30 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	2.2 U,J,O	1.3 J,O	4.2 J,O	3.9 J,O	17 J,O	6.3 J,O	1.2 J,O	13 J,O	0.81 U,J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	6.5 J,O	13 J,O	26 J,O	38 J,O	78 J,O	18 J,O	16 J,O	36 J,O	5.1 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWPB01 (Background)	SWPB01 (Background)	SWPB01 (Background)	SWPB01 (Background)	SWPB01 (Background)	SWP02	SWP03	SWP04	SWP04 (dup)
				Sample Date								
				9/22/2008	9/22/2008	9/22/2008	9/22/2008	9/22/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008
				Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
				Depth Interval (ft bls)								
				2-4	4-8	8-12	12-16	16-20	4-8	4-8	8-12	8-12
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	210 U	210 U	200 U	200 U	2600 U,J,O	2800 U	3100 U	3100 U	3100 U
1,1-Biphenyl	92-52-4	--	--	210 U	210 U	200 U	200 U	2600 U	6700 U,J,O	3100 U	19000 U	18000 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	210 U	210 U	200 U	200 U	2600 U	2800 U	3100 U	3100 U	3100 U
2,4-Dimethylphenol	105-67-9	--	--	210 U	210 U	200 U	200 U	2600 U	2800 U	3100 U	3100 U	3100 U
2-Methylnaphthalene	91-57-6	--	--	4.2 U	4 U	3.9 U	4 U	81 J,O	20000 J,O	300	42000 U	40000 U
2-Methylphenol	95-48-7	--	--	210 U	210 U	200 U	200 U	2600 U,J,O	2800 U,J,O	3100 U,J,O	3100 U,J,O	3100 U,J,O
Acenaphthene	83-32-9	3400000	33000000	4.2 U	4 U	3.9 U	4 U	96 J,O	31000 U,J,O	270 U	22000 U	27000 U
Acenaphthylene	208-96-8	--	--	4.2 U	4 U	3.9 U	4 U	110 U	820 J,O	120 U	1100 U,J,O	1900 U,J,O
Acetophenone	98-86-2	--	--	210 U	210 U	200 U	200 U	2600 U	2800 U	3100 U	3100 U	3100 U
Anthracene	120-12-7	17000000	170000000	4.2 U	4 U	3.9 U	4 U	100 J,O	12000 J,O	210	24000	26000 J,O
Benzo(a)anthracene	56-55-3	150	2100	4.2 U	4 U	3.9 U	4 U	65 J,O	10000 U,J,O	420 U	16000 U	13000 U
Benzo(a)pyrene	50-32-8	15	210	4.2 U	4 U	3.9 U	4 U	110 U	2000 U,J,O	290 J,O	4500 U,J,O	4200 U,J,O
Benzo(b)fluoranthene	205-99-2	150	2100	2.6 J,O	4 U	3.9 U	4 U	53 J,O	1800 J,O	310	4800 U	4400 U
Benzo(g,h,i)perylene	191-24-2	--	--	4.2 U	4 U	3.9 U	4 U	70 J,O	470 J,O	170	890 U	960 U
Benzo(k)fluoranthene	207-08-9	1500	21000	4.2 U	4 U	3.9 U	4 U	56 J,O	2000 J,O	270	4900 U	4500 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	210 U	210 U	200 U	200 U	2600 U	2800 U	3100 U	3100 U	3400
Carbazole	86-74-8	--	--	210 U	210 U	200 U	200 U	2600 U	7700	660 J,O	13000	6100
Chrysene	218-01-9	15000	210000	4.2 U	4 U	3.9 U	4 U	130	8500	480	13000	12000
Dibenzo(a,h)anthracene	53-70-3	15	210	4.2 U,J,O	4 U,J,O	3.9 U,J,O	4 U,J,O	110 U	190	120 U	310	360
Dibenzofuran	132-64-9	--	--	210 U	210 U	200 U	200 U	2600 U	25000	3100 U	65000	60000
Diethyl phthalate	84-66-2	--	--	210 U	210 U	200 U	200 U	2600 U	2800 U	3100 U	3100 U	3100 U
Fluoranthene	206-44-0	2300000	22000000	4.2 U	4 U	3.9 U	3.2 J,O	400	49000	5300	99000	100000
Fluorene	86-73-7	2300000	22000000	4.2 U	4 U	3.9 U	4 U	120	30000	300	25000	33000
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	4.2 U,J,O	4 U,J,O	3.9 U,J,O	4 U,J,O	77 J,O	740	250	1900	1700
Naphthalene	91-20-3	3600	18000	4 J,O	3.1 J,O	2.4 J,O	2.8 J,O	110 J,O	60000	1100	140000	130000
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	2.9 J,O	8.1 U,J,O	7.9 U,J,O	6.2 J,O	210 U	650	250 U	470	1100
Phenanthrene	85-01-8	--	--	4.2 U	4 U	3.9 U	4 U	640	88000	580	230000	220000
Phenol	108-95-2	--	--	210 U	210 U	200 U	200 U	2600 U,J,O	2800 U	3100 U	3100 U	3100 U
Pyrene	129-00-0	1700000	17000000	4.2 U	4 U	3.9 U	3.3 J,O	330	32000	4600	80000	69000
Benzo(a)pyrene TEQ	NA	15	210	ND	ND	ND	ND	20	473	349	513	542

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP05	SWP06	SWP07	SWP07	SWP08	SWP09	SWP10	SWP11	SWP12
				Sample Date								
				9/24/2008	9/24/2008	9/23/2008	9/23/2008	9/24/2008	9/24/2008	9/25/2008	9/24/2008	9/23/2008
				Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
				Depth Interval (ft bls)								
				12-16	4-8	1-4	1-4	8-12	8-12	4-8	16-20	8-12
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	2700 U,J,O	2500 U,J,O	2800 U	2400 U	2500 U	65000	2700 U,J,O	69000	2700 U
1,1-Biphenyl	92-52-4	--	--	2700 U	2500 U	2800 U	2400 U	2500 U	460000 J,O	13000	150000	2700 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	2700 U,J,O	2500 U,J,O	2800 U	2400 U	2500 U	29000	2700 U	2600 U	2700 U
2,4-Dimethylphenol	105-67-9	--	--	2700 U	2500 U	2800 U	2400 U	2500 U	92000	2700 U	33000	2700 U
2-Methylnaphthalene	91-57-6	--	--	110 U	100 U	2800 U	63 J,O	710	1700000	4100	420000	110 U
2-Methylphenol	95-48-7	--	--	2700 U,J,O	2500 U,J,O	2800 U,J,O	2400 U,J,O	2500 U,J,O	31000 J,O	2700 U,J,O	25000 J,O	2700 U,J,O
Acenaphthene	83-32-9	3400000	33000000	110 U	100 U	16000	230	340	2300000	110000	720000	110 U
Acenaphthylene	208-96-8	--	--	110 U	100 U	2800 U	670	100 U	610000 U	1000 J,O	21000	110 U
Acetophenone	98-86-2	--	--	2700 U	2500 U	2800 U	2400 U	2500 U	9400	2700 U	5300	2700 U
Anthracene	120-12-7	17000000	170000000	200 J,O	81 J,O	8900	46000	380	970000	100000	190000	110 U
Benzo(a)anthracene	56-55-3	150	2100	520 U	320	14000	3500	290	400000 J,O	66000	140000 J,O	110 U
Benzo(a)pyrene	50-32-8	15	210	460 J,O	220	10000	3500	110	130000 J,O	11000	42000	110 U
Benzo(b)fluoranthene	205-99-2	150	2100	570 U	270	16000	7700	170	150000 J,O	55000	69000	110 U
Benzo(g,h,i)perylene	191-24-2	--	--	120 U	62 J,O	7400	3800	99 J,O	54000 J,O	6700	10000	110 U
Benzo(k)fluoranthene	207-08-9	1500	21000	560 U	240	14000	5300	150	130000 J,O	33000	34000	110 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	2700 U	2500 U	2800 U	2400 U	4100	3000 U	2700 U	2700 U,O	2700 U
Carbazole	86-74-8	--	--	2700 U	2500 U	2800 U	15000	2500 U	320000 J,O	46000	120000	2700 U
Chrysene	218-01-9	15000	210000	670	350	19000	7100	270	380000 J,O	100000	80000 J,O	110 U
Dibenzo(a,h)anthracene	53-70-3	15	210	110 U	100 U	3700 J,O	670	100 U	27000 J,O	4800	4300	110 U
Dibenzofuran	132-64-9	--	--	2700 U	2500 U	7000	1300 J,O	780 J,O	1600000 J,O	79000	530000	2700 U
Diethyl phthalate	84-66-2	--	--	2700 U	2500 U	2800 U	2400 U	2500 U	3000 U	2700 U	2600 U	2700 U
Fluoranthene	206-44-0	2300000	22000000	930	140	37000	5200	1400	2700000	570000	620000	110 U
Fluorene	86-73-7	2300000	22000000	78 J,O	100 U	11000	4500	500	1900000 J,O	120000	510000	110 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	190	88 J,O	7600	3800	130	65000 J,O	8600	13000	110 U
Naphthalene	91-20-3	3600	18000	140	120	830	700	1600	6900000	870	1400000	110 U
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	220 U,J,O	200 U,J,O	600 J,O	790 J,O	130 J,O	80000 J,O	1700	1800	220 U
Phenanthrene	85-01-8	--	--	320	100 J,O	23000	7700	3300	5600000	700000	1500000	110 U
Phenol	108-95-2	--	--	2700 U,J,O	2500 U,J,O	2800 U	2400 U	2500 U	21000	2700 U,J,O	100000 U,J,O	2700 U
Pyrene	129-00-0	1700000	17000000	1100	150	33000	5100	1100	1800000	320000	400000	110 U
Benzo(a)pyrene TEQ	NA	15	210	480	291	17619	5730	171	220180	29190	68920	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP13	SWP14	SWPR01	SWPR02	SWPR03	SWPR04	SWPR05	SWPR06	SWP001
				Sample Date								
				9/22/2008	9/24/2008	9/24/2008	9/24/2008	9/25/2008	9/24/2008	9/24/2008	9/24/2008	1/8/2013
				Onsite	Onsite	Residential	Residential	Residential	Residential	Residential	Residential	Residential
				Depth Interval (ft bls)								
				4-8	2-4	1-2	1-2	1-2	1-2	1-2	1-2	18-19
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	3200 U	3000 U,J,O	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
1,1-Biphenyl	92-52-4	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	74000
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	3200 U	3000 U,J,O	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
2,4-Dimethylphenol	105-67-9	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
2-Methylnaphthalene	91-57-6	--	--	130 U	120 U	3.7 U	3.7 U	4 U	4.2 U	4 U	4.2 U	330000
2-Methylphenol	95-48-7	--	--	3200 U,J,O	3000 U,J,O	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
Acenaphthene	83-32-9	3400000	33000000	130 U	120 U	3.7 U	3.7 U	4 U	4.2 U	4 U	4.2 U	190000
Acenaphthylene	208-96-8	--	--	130 U	120 U	3.7 U	2.1 J,O	4 U	4.2 U	11	4.2 U	2600
Acetophenone	98-86-2	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
Anthracene	120-12-7	17000000	170000000	130 U	100 J,O	3.7 U	2.5 J,O	7.3	11	23	4.2 U	69000
Benzo(a)anthracene	56-55-3	150	2100	130 U	270	3.7 U	3.3 J,O	5.5	12	20	4.2 U	70000
Benzo(a)pyrene	50-32-8	15	210	130 U	330	3.7 U	7.4	8	18	25	9.4	19000
Benzo(b)fluoranthene	205-99-2	150	2100	130 U	410	3.7 U	9.6	10	37	32	4.2 U	28000
Benzo(g,h,i)perylene	191-24-2	--	--	130 U	98 J,O	3.7 U	6.1	4.8	12	15	4.2 U	4500
Benzo(k)fluoranthene	207-08-9	1500	21000	130 U	400	3.7 U	7 J,O	8.1 J,O	25 J,O	32 J,O	4.2 U	24000
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
Carbazole	86-74-8	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	48000
Chrysene	218-01-9	15000	210000	130 U	290	3.7 U	5.1	7.1	25	37	4.2 U	65000
Dibenzo(a,h)anthracene	53-70-3	15	210	130 U	120 U	3.7 U,J,O	3.7 U,J,O	4 U,J,O	3.7 J,O	5.5 J,O	4.2 U	1800
Dibenzofuran	132-64-9	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	250000
Diethyl phthalate	84-66-2	--	--	3200 U	3000 U	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
Fluoranthene	206-44-0	2300000	22000000	130 U	220	3.7 U	5.3	12	25	32	4.2 U	360000
Fluorene	86-73-7	2300000	22000000	130 U	120 U	3.7 U	3.7 U	4 U	4.2 U	3.1 J,O	4.2 U	160000
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	130 U	160	3.7 U,J,O	8.4 J,O	6.8 J,O	19 J,O	26 J,O	4.2 U	5400
Naphthalene	91-20-3	3600	18000	160	150	4.8	4.5	4.9	4.7	4.4	5.3	810000
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	160000
Pentachlorophenol	87-86-5	890	2700	250 U	240 U,J,O	7.6 U,J,O	2 J,O	25 J,O	5.4 J,O	14 J,O	8.5 U	17000 U
Phenanthrene	85-01-8	--	--	130 U	150	3.7 U	2.2 J,O	8.4	4.2 U	2.1 J,O	4.2 U	700000
Phenol	108-95-2	--	--	3200 U	3000 U,J,O	190 U	190 U	210 U	220 U	210 U	210 U	17000 U
Pyrene	129-00-0	1700000	17000000	130 U	240	1.9 J,O	5.7	13	4.2	40	4.2 U	250000
Benzo(a)pyrene TEQ	NA	15	210	ND	418	ND	10	10	29	39	9	31445

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP001	SWP001 (dup)	SWP001	SWP002	SWP002	SWP002	SWP004	SWP004	SWP004
				Sample Date								
				1/8/2013	1/8/2013	1/10/2013	1/12/2013	1/12/2013	1/15/2013	11/6/2012	11/6/2012	11/6/2012
				Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
				Depth Interval (ft bls)								
				68-69	68-69	295-296	6-12	66.5-67.5	298-300	14-15	60-60.5	70-70.5
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
1,1-Biphenyl	92-52-4	--	--	42 U	42 U	41 U	50	47 U	43 U	200 U	210 U	210 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
2,4-Dimethylphenol	105-67-9	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
2-Methylnaphthalene	91-57-6	--	--	42 U	42 U	41 U	130	47 U	43 U	200 U	210 U	210 U
2-Methylphenol	95-48-7	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
Acenaphthene	83-32-9	3400000	33000000	42 U	42 U	41 U	200	47 U	43 U	200 U	210 U	210 U
Acenaphthylene	208-96-8	--	--	42 U	42 U	41 U	42 U	47 U	43 U	200 U	210 U	210 U
Acetophenone	98-86-2	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
Anthracene	120-12-7	17000000	170000000	42 U	42 U	41 U	190	47 U	43 U	200 U	210 U	210 U
Benzo(a)anthracene	56-55-3	150	2100	42 U	42 U	41 U	190	47 U	43 U	200 U	210 U	210 U
Benzo(a)pyrene	50-32-8	15	210	42 U	42 U	41 U	140	47 U	43 U	200 U	210 U	210 U
Benzo(b)fluoranthene	205-99-2	150	2100	42 U	42 U	41 U	200	47 U	43 U	200 U	210 U	210 U
Benzo(g,h,i)perylene	191-24-2	--	--	42 U	42 U	41 U	63	47 U	43 U	200 U	210 U	210 U
Benzo(k)fluoranthene	207-08-9	1500	21000	42 U	42 U	41 U	160	47 U	43 U	200 U	210 U	210 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
Carbazole	86-74-8	--	--	42 U	42 U	41 U	98	47 U	43 U	200 U	210 U	210 U
Chrysene	218-01-9	15000	210000	42 U	42 U	41 U	240	47 U	43 U	200 U	210 U	210 U
Dibenzo(a,h)anthracene	53-70-3	15	210	42 U	42 U	41 U	42 U	47 U	43 U	200 U	210 U	210 U
Dibenzofuran	132-64-9	--	--	42 U	42 U	41 U	220	47 U	43 U	200 U	210 U	210 U
Diethyl phthalate	84-66-2	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
Fluoranthene	206-44-0	2300000	22000000	110	42 U	41 U	900	47 U	43 U	200 U	210 U	210 U
Fluorene	86-73-7	2300000	22000000	42 U	42 U	41 U	270	47 U	43 U	200 U	210 U	210 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	42 U	42 U	41 U	66	47 U	43 U	200 U	210 U	210 U
Naphthalene	91-20-3	3600	18000	71	42 U	41 U	140	160	43 U	200 U	210 U	210 U
Naphthalene, 1-methyl-	90-12-0	--	--	42 U	42 U	41 U	68	47 U	43 U	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	420 U	420 U	410 U	420 U	470 U	430 U	380 U	400 U	410 U
Phenanthrene	85-01-8	--	--	180	42 U	41 U	970	47 U	43 U	200 U	210 U	210 U
Phenol	108-95-2	--	--	420 U	420 U	410 U	420 U	470 U	430 U	200 U	210 U	210 U
Pyrene	129-00-0	1700000	17000000	67	42 U	41 U	660	47 U	43 U	200 U	210 U	210 U
Benzo(a)pyrene TEQ	NA	15	210	ND	ND	ND	187	ND	ND	ND	ND	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP201	SWP201 (dup)	SWP202	SWP202 (dup)	SWP203	SWP204	SWP205	SWP206	SWP207
				Sample Date								
				10/24/2012	10/24/2012	10/29/2012	10/29/2012	10/29/2012	10/26/2012	10/25/2012	10/25/2012	10/25/2012
				Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential
				Depth Interval (ft bls)								
				0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	1-1.5	0.5-1	0.5-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
1,1-Biphenyl	92-52-4	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
2,4-Dimethylphenol	105-67-9	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
2-Methylnaphthalene	91-57-6	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
2-Methylphenol	95-48-7	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Acenaphthene	83-32-9	3400000	33000000	190 U	190 U	180 U	190 U	200 U	210 U	200 U	110 J,O	200 U
Acenaphthylene	208-96-8	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	250	200 U
Acetophenone	98-86-2	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Anthracene	120-12-7	17000000	170000000	190 U,J,O	190 U,J,O	180 U,J,O	190 U,J,O	200 U	190 J,O	200 U,J,O	860	200 U
Benzo(a)anthracene	56-55-3	150	2100	190 U	190 U	180 U	190 U	260	610	210	880	200 U
Benzo(a)pyrene	50-32-8	15	210	190 U	190 U	180 U	190 U	260	580	170 J,O	1100	200 U
Benzo(b)fluoranthene	205-99-2	150	2100	190 U	190 U	180 U	190 U	520	1000	290	1700	200 U
Benzo(g,h,i)perylene	191-24-2	--	--	190 U	190 U	180 U	190 U	180 J,O	320	110 J,O	1100	200 U
Benzo(k)fluoranthene	207-08-9	1500	21000	190 U	190 U	180 U	190 U	420	780	250	1200	200 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	190 U	190 U	180 U	190 U	200 U	210 U	490	570	200 U
Carbazole	86-74-8	--	--	190 U	190 U	180 U	190 U	200 U	120 J,O	200 U	300	200 U
Chrysene	218-01-9	15000	210000	190 U	190 U	180 U	190 U	550	1100	350	1000	200 U
Dibenzo(a,h)anthracene	53-70-3	15	210	190 U	190 U	180 U	190 U	200 U	150 J,O	200 U	370	200 U
Dibenzofuran	132-64-9	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Diethyl phthalate	84-66-2	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Fluoranthene	206-44-0	2300000	22000000	190 U,J,O	190 U,J,O	180 U,J,O	190 U,J,O	440	930 J,O	220 J,O	1700	200 U
Fluorene	86-73-7	2300000	22000000	190 U	190 U	180 U	190 U	200 U	210 U	200 U	83 J,O	200 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	190 U	190 U	180 U	190 U	190 J,O	340	110 J,O	1100	200 U
Naphthalene	91-20-3	3600	18000	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	370 U	380 U	360 U	360 U	390 U	410 U	380 U	380 U,J,O	400 U,J,O
Phenanthrene	85-01-8	--	--	190 U	190 U	180 U	190 U	200 U	100 J,O	200 U	940	200 U
Phenol	108-95-2	--	--	190 U	190 U	180 U	190 U	200 U	210 U	200 U	190 U	200 U
Pyrene	129-00-0	1700000	17000000	190 U,J,O	190 U,J,O	180 U,J,O	190 U,J,O	410	970 J,O	250 J,O	1300	200 U
Benzo(a)pyrene TEQ	NA	15	210	ND	ND	ND	ND	362	934	234	1851	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP208	SWP209	SWP210	SWP211	SWP212	SWP212 (dup)	SWP213	SWP214	SWP215
				Sample Date								
				10/26/2012	10/24/2012	10/24/2012	10/24/2012	10/26/2012	10/28/2012	10/24/2012	10/29/2012	10/24/2012
				Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential
				Depth Interval (ft bls)								
				0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
1,1-Biphenyl	92-52-4	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
2,4-Dimethylphenol	105-67-9	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
2-Methylnaphthalene	91-57-6	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
2-Methylphenol	95-48-7	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Acenaphthene	83-32-9	3400000	33000000	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Acenaphthylene	208-96-8	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Acetophenone	98-86-2	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Anthracene	120-12-7	17000000	170000000	190 U	190 U,J,O	190 U,J,O	90 J,O	210 U	180 U	220 U	200 U,J,O	210 U
Benzo(a)anthracene	56-55-3	150	2100	190 U	190 U	190 U	170 J,O	210 U	180 U	220 U	200 U	210 U
Benzo(a)pyrene	50-32-8	15	210	190 U	190 U	190 U	190 J,O	210 U	180 U	220 U	200 U	210 U
Benzo(b)fluoranthene	205-99-2	150	2100	190 U	190 U	190 U	390	210 U	180 U	220 U	200 U	210 U
Benzo(g,h,i)perylene	191-24-2	--	--	190 U	190 U	190 U	130 J,O	210 U	180 U	220 U	200 U	210 U
Benzo(k)fluoranthene	207-08-9	1500	21000	190 U	190 U	190 U	260	210 U	180 U	220 U	200 U	210 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	300
Carbazole	86-74-8	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Chrysene	218-01-9	15000	210000	190 U	190 U	190 U	410	210 U	180 U	220 U	200 U	210 U
Dibenzo(a,h)anthracene	53-70-3	15	210	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Dibenzofuran	132-64-9	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Diethyl phthalate	84-66-2	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Fluoranthene	206-44-0	2300000	22000000	190 U	190 U,J,O	190 U,J,O	570	210 U	180 U	220 U	200 U,J,O	210 U
Fluorene	86-73-7	2300000	22000000	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	190 U	190 U	190 U	140 J,O	210 U	180 U	220 U	200 U	210 U
Naphthalene	91-20-3	3600	18000	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	370 U,J,O	370 U	360 U	430 U,J,O	400 U,J,O	350 U	430 U,J,O	400 U	410 U,J,O
Phenanthrene	85-01-8	--	--	190 U	190 U	190 U	130 J,O	210 U	180 U	220 U	200 U	210 U
Phenol	108-95-2	--	--	190 U	190 U	190 U	220 U	210 U	180 U	220 U	200 U	210 U
Pyrene	129-00-0	1700000	17000000	190 U	190 U,J,O	190 U,J,O	440	210 U	180 U	220 U	200 U,J,O	210 U
Benzo(a)pyrene TEQ	NA	15	210	ND	ND	ND	263	ND	ND	ND	ND	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID								
				SWP216	SWP217	SWP218	SWP219	SWP220	SWP221	SWP222	SWP223	SWP224
				Sample Date								
				10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/24/2012	10/26/2012	10/27/2012	10/25/2012	10/25/2012
				Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential	Residential
				Depth Interval (ft bls)								
				0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)												
(3-and/or 4-)Methylphenol	1319-77-3	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
1,1-Biphenyl	92-52-4	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
2,4-Dimethylphenol	105-67-9	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
2-Methylnaphthalene	91-57-6	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
2-Methylphenol	95-48-7	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Acenaphthene	83-32-9	3400000	33000000	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Acenaphthylene	208-96-8	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Acetophenone	98-86-2	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Anthracene	120-12-7	17000000	170000000	190 U	220 U,J,O	200 U,J,O	190 U,J,O	210 U,J,O	210 U,J,O	190 U	190 U	210 U
Benzo(a)anthracene	56-55-3	150	2100	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Benzo(a)pyrene	50-32-8	15	210	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Benzo(b)fluoranthene	205-99-2	150	2100	190 U	220 U	200 U	190 U	210 U	210 U	220	190 U	210 U
Benzo(g,h,i)perylene	191-24-2	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Benzo(k)fluoranthene	207-08-9	1500	21000	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	190 U	400	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Carbazole	86-74-8	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Chrysene	218-01-9	15000	210000	190 U	220 U	200 U	190 U	210 U	210 U	150 J,O	190 U	210 U
Dibenzo(a,h)anthracene	53-70-3	15	210	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Dibenzofuran	132-64-9	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Diethyl phthalate	84-66-2	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	310	360
Fluoranthene	206-44-0	2300000	22000000	190 U	220 U,J,O	200 U,J,O	190 U,J,O	210 U,J,O	210 U,J,O	190 U	190 U	210 U
Fluorene	86-73-7	2300000	22000000	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Naphthalene	91-20-3	3600	18000	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	890	2700	370 U	430 U	400 U	370 U	400 U	400 U	360 U	370 U,J,O	400 U,J,O
Phenanthrene	85-01-8	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Phenol	108-95-2	--	--	190 U	220 U	200 U	190 U	210 U	210 U	190 U	190 U	210 U
Pyrene	129-00-0	1700000	17000000	190 U	220 U,J,O	200 U,J,O	190 U,J,O	210 U,J,O	210 U,J,O	190 U	190 U	210 U
Benzo(a)pyrene TEQ	NA	15	210	ND	ND	ND	ND	ND	ND	22	ND	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-6
Detected Semi-Volatile Organic Compounds in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Industrial Soil PRG	Sample ID				
				SWP224 (dup)	SWP225	SWP226	SWP229	SWP236
				Sample Date				
				10/25/2012	10/25/2012	1/23/2013	1/23/2013	1/24/2013
				Residential	Residential	Residential	Residential	Residential
				Depth Interval (ft bls)				
				0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Semi-Volatile Organic Compound (SVOC) (µg/kg)								
(3-and/or 4-)Methylphenol	1319-77-3	--	--	200 U	190 U	440 U	430 U	400 U
1,1-Biphenyl	92-52-4	--	--	200 U	190 U	44 U	43 U	40 U
2,3,4,6-Tetrachlorophenol	58-90-2	--	--	200 U	190 U	440 U	430 U	400 U
2,4-Dimethylphenol	105-67-9	--	--	200 U	190 U	440 U	430 U	400 U
2-Methylnaphthalene	91-57-6	--	--	200 U	190 U	44 U	43 U	40 U
2-Methylphenol	95-48-7	--	--	200 U	190 U	440 U	430 U	400 U
Acenaphthene	83-32-9	3400000	33000000	200 U	190 U	44 U	43 U	40 U
Acenaphthylene	208-96-8	--	--	200 U	190 U	73	43 U	40 U
Acetophenone	98-86-2	--	--	200 U	190 U	440 U	430 U	400 U
Anthracene	120-12-7	17000000	170000000	200 U,J,O	120 J,O	200	57	40 U
Benzo(a)anthracene	56-55-3	150	2100	200 U	140 J,O	1300	260	40 U
Benzo(a)pyrene	50-32-8	15	210	200 U	220	1600	470	40 U
Benzo(b)fluoranthene	205-99-2	150	2100	200 U	400	3500	1000	40 U
Benzo(g,h,i)perylene	191-24-2	--	--	200 U	150 J,O	620	220	40 U
Benzo(k)fluoranthene	207-08-9	1500	21000	200 U	260	2700	700	40 U
Bis(2-ethylhexyl) phthalate	117-81-7	--	--	200 U	190 U	440 U	430 U	400 U
Carbazole	86-74-8	--	--	200 U	190 U	190	43 U	40 U
Chrysene	218-01-9	15000	210000	200 U	210	2400	600	40 U
Dibenzo(a,h)anthracene	53-70-3	15	210	200 U	190 U	210	56	40 U
Dibenzofuran	132-64-9	--	--	200 U	190 U	48	43 U	40 U
Diethyl phthalate	84-66-2	--	--	200 U	190 U	440 U	430 U	400 U
Fluoranthene	206-44-0	2300000	22000000	200 U,J,O	110 J,O	1900	460	40 U
Fluorene	86-73-7	2300000	22000000	200 U	190 U	44 U	43 U	40 U
Indeno (1,2,3-cd) pyrene	193-39-5	150	2100	200 U	170 J,O	720	230	40 U
Naphthalene	91-20-3	3600	18000	200 U	190 U	87	43 U	40 U
Naphthalene, 1-methyl-	90-12-0	--	--	NA	NA	44 U	43 U	40 U
Pentachlorophenol	87-86-5	890	2700	390 U	360 U,J,O	90 J,O	83 J,O	400 U
Phenanthrene	85-01-8	--	--	200 U	190 U	250	110	40 U
Phenol	108-95-2	--	--	200 U	190 U	440 U	430 U	400 U
Pyrene	129-00-0	1700000	17000000	200 U,J,O	130 J,O	2000	560	40 U
Benzo(a)pyrene TEQ	NA	15	210	ND	294	2391	683	ND

Notes:

Value exceeds residential soil PRG

Value exceeds industrial soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

µg/kg - micrograms per kilogram

NA - Not Applicable

ND - Not Detected

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-7
Dioxin in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID							
			SWP02	SWP03	SWP04	SWP04 (dup)	SWP05	SWP07	SWPR01	SWPR02
			Sample Date							
			9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/24/2008	9/23/2008	9/24/2008	9/24/2008
			Depth Interval (ft bgs)							
			4-8	4-8	8-12	8-12	12-16	1-4	1-2	1-2
Dioxins (ng/kg)										
% Moisture	E1644012	--	71000 J,O	12	5 U,J,O	5 U,J,O	5 U,J,O	13	12	12
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	890 J,O	5 U	5 U	5 U	5 U	17000	6.4	160
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	50 U,J,O	5 U	5 U	5 U	5 U	6300	1.2 J,O	120
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	50 U,J,O	5 U	5 U	5 U	5 U	250	0.26 U	3.2 J,O
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O	56 J,O	0.23 U	0.78 J,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	50 U,J,O	5 U	5 U	5 U	5 U	110	0.14 U,O	2.4 J,O
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O	380 J,O	0.24 U	4.6 J,O
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	7300 J,O	1.1 J,O	5 U	5 U	5 U	33 J,O	0.13 U,O	1.2 J,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	100 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	98 J,O	0.26 U,O	1.8 J,O
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	50 U,J,O	5 U	5 U	5 U	5 U	17 J,O	0.19 U	0.37 J,O
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	50 U,J,O	5 U	5 U	5 U	5 U	10 J,O	0.18 U	0.4 U,O
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	50 U,J,O	5 U	5 U	5 U	5 U	5.3 J,O	0.1 U	0.13 U,O
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	50 U,J,O	5 U	5 U	5 U	5 U	55	0.13 U	1.8 J,O
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	100 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	10 U,J,O	20 J,O	0.084 U	0.7 J,O
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	5100 J,O	1.6	0.1 U	0.1 U	0.1 U	1.4 U,J,O	0.12 U	0.11 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	24000 J,O	4.9 J,O	5 U	5 U	5 U	3.1 U,J,O	0.14 U	0.24 U,O
Heptachlorodibenzodioxin (Total)	37871-00-4	--	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O	42000 J,O	14 J,O	410 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	50 U,J,O	5 U	5 U	5 U	5 U	24000 J,O	2.2 J,O	340 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	50 U,J,O	5 U	5 U	5 U	5 U	1900 J,O	1.3 J,O	32 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O	4200 J,O	0.5 J,O	67 J,O
Octachlorodibenzodioxin	3268-87-9	--	50 U,J,O	5 U	5 U	5 U	5 U	220000 J,O	340	3200
Octachlorodibenzofuran	39001-02-0	--	50 U,J,O	5 U	5 U	5 U	5 U	28000	1.8 J,O	380
Pentachlorodibenzodioxin (Total)	36088-22-9	--	50 U,J,O	5 U	5 U,J,O	5 U,J,O	5 U,J,O	110 J,O	0.18 U,J,O	1.9 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	50 U,J,O	5 U	5 U	5 U	5 U	73 J,O	0.084 J,O	8.6 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	100 U,J,O	10 U	10 U,J,O	10 U,J,O	10 U,J,O	180 J,O	0.7 J,O	4 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	100 U,J,O	10 U	10 U	10 U	10 U,J,O	180 J,O	0.59 J,O	3.6 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	3000 J,O	1	0.1 U	0.1 U	0.1 U	400 J,O	0.66 J,O	6 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	67 J,O	0.1 U,J,O	0.1 U	0.1 U	0.1 U	19 J,O	0.18 J,O	0.29 J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	50 U,J,O	5 U	5 U	5 U	5 U	20 J,O	0.32 J,O	0.98 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-7
Dioxin in Subsurface Soil - 2008, 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID							
			SWPR03	SWPR04	SWPR05	SWPR06	SWP001	SWP002	SWP002 (dup)	SWP004
			Sample Date							
			9/25/2008	9/24/2008	9/24/2008	9/24/2008	1/8/2013	1/12/2013	1/12/2013	11/6/2012
			Depth Interval (ft bgs)							
			1-2	1-2	1-2	1-2	9-10	6-12	6-12	5-5.5
Dioxins (ng/kg)										
% Moisture	E1644012	--	18	19	18	21	19	22	22	26
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	160	350	500	17	700	830	210	54
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	78	250	300	12	430	350	93	26
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	2.1 J,O	7.4	9	0.25 J,O	15 J,O	14	4.1 J,O	0.82 U
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	1.1 U,O	1.8 J,O	3.3 J,O	0.21 J,O	1.7 J,O	3.6 J,O	1.3 J,O	0.73 U,O
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	2.2 J,O	3.1 J,O	5	0.54 J,O	11 J,O	8.4 J,O	2.4 J,O	0.92 J,O
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	4.2 J,O	10	15	0.51 U,O	19 J,O	20	5.7 J,O	0.8 J,O
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	1.2 J,O	1 J,O	1.6 J,O	0.24 J,O	3.7 J,O	3.1 J,O	0.95 J,O	0.53 U,O
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	2.2 J,O	2.9 J,O	7.1	0.45 J,O	3.9 J,O	5.4	1.8 J,O	0.63 J,O
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	0.32 J,O	0.85 J,O	0.85 U	0.18 U	3.6 U,J,O	1.5 J,O	0.52 J,O	0.44 U
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	0.46 J,O	0.33 U,O	1.1 J,O	0.15 U	1.4 J,O	0.61 J,O	0.16 J,O	0.27 U
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	0.16 U,O	0.091 J,O	0.095 U	0.084 U	0.99 U	0.58 J,O	0.16 U	0.23 U
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	1.7 J,O	2.3 J,O	3.2 J,O	0.26 J,O	2.2 U,O	5.3 J,O	1.4 J,O	0.64 U
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	0.83 J,O	0.38 U	0.65 J,O	0.28 U	5.7 J,O	3.6 J,O	1 J,O	0.42 J,O
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.5 J,O	0.1 U	0.17 U,O	0.11 U	0.63 U	0.16 U,O	0.12 U	0.1 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.23 U	0.16 U	0.16 U	0.17 U	1.8 J,O	0.28 J,O	0.16 U	0.16 U
Heptachlorodibenzodioxin (Total)	37871-00-4	--	410 J,O	970 J,O	1200 J,O	40 J,O	2500 J,O	2700 J,O	660 J,O	120 J,O
Heptachlorodibenzofuran (Total)	38998-75-3	--	220 J,O	890 J,O	1100 J,O	23 J,O	1600 J,O	1200 J,O	320 J,O	56 J,O
Hexachlorodibenzodioxin (Total)	34465-46-8	--	36 J,O	73 J,O	130 J,O	4.2 J,O	160 J,O	200 J,O	59 J,O	7.5 J,O
Hexachlorodibenzofuran (Total)	55684-94-1	--	58 J,O	140 J,O	170 J,O	7.9 J,O	410 J,O	320 J,O	90 J,O	14 J,O
Octachlorodibenzodioxin	3268-87-9	--	2500	3200	3500	910	8200	9800 J,O	2300	4700 J,O
Octachlorodibenzofuran	39001-02-0	--	220	1100	1300	14	1700	1200	310	35
Pentachlorodibenzodioxin (Total)	36088-22-9	--	3 J,O	3.2 J,O	13 J,O	0.15 U,J,O	3.9 J,O	11 J,O	3.3 J,O	0.67 J,O
Pentachlorodibenzofuran (Total)	30402-15-4	--	10 J,O	7.5 J,O	11 J,O	1.8 J,O	22 J,O	18 J,O	9.6 J,O	2.2 J,O
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428	--	4.1 J,O	5.5 J,O	8.2 J,O	1.1 J,O	18 J,O	13 J,O	3.8 J,O	2.1 J,O
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429	--	3.8 J,O	5.7 J,O	8.6 J,O	0.88 J,O	14 J,O	12 J,O	3.5 J,O	2 J,O
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	5.7 J,O	10 J,O	14 J,O	1.2 J,O	23 J,O	22 J,O	5.9 J,O	3.2 J,O
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	0.65 J,O	0.98 J,O	1.7 J,O	0.11 U,J,O	0.63 U,J,O	0.71 J,O	0.18 J,O	0.1 U,J,O
Tetrachlorodibenzofuran (Total)	30402-14-3	--	1.4 J,O	1.7 J,O	1.2 J,O	0.3 J,O	4.3 J,O	3.3 J,O	0.74 J,O	0.69 J,O

Notes:

Value exceeds residential soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

Table 4-8
Detected Semi-Volatile Organic Compounds in Waste - 2008
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Industrial Soil PRG	Sample ID			
			SWP-WS-01	SWP-WS-02	SWP-WS-02 (dup)	SWP-WS-03
			Sample Date			
			2/28/2008	2/28/2008	2/28/2008	2/28/2008
			Depth Interval (ft bls)			
			2.5-3	0.5-2	0.5-2	1.66-2
Semi-Volatile Organic Compound (SVOC) (ug/kg)						
2-Methylnaphthalene	91-57-6	--	423 U	351 J	274 J	553 J
Acenaphthene	83-32-9	33000000	423 U	121 J	760 J	1990 U
Acenaphthylene	208-96-8	--	163 J	223 J	168 J	986 J
Anthracene	120-12-7	170000000	302 J	2250	4390	4830
Benzo(a)anthracene	56-55-3	2100	173 J	459	455	1510 J
Benzo(a)pyrene	50-32-8	210	452	714	639	5440
Benzo(b)fluoranthene	205-99-2	2100	1210	1620	1440	13900
Benzo(g,h,i)perylene	191-24-2	--	297 J	223 J	209 J	1400 J
Benzo(k)fluoranthene	207-08-9	21000	419 J	467	497	4340
Carbazole	86-74-8	--	108 J	618	1280	769 J
Chrysene	218-01-9	210000	278 J	829	792	3760
Dibenzo(a,h)anthracene	53-70-3	210	937 J	435 U	423 U	461 J
Dibenzofuran	132-64-9	--	642 J	210 J	347 J	664 J
Fluoranthene	206-44-0	22000000	296 J	809	995	3600
Fluorene	86-73-7	22000000	423 U	232 J	449	1990 U
Indeno (1,2,3-cd) pyrene	193-39-5	2100	334 J	237 J	221 J	1560 J
Naphthalene	91-20-3	18000	180 J	883	723	1800 J
Pentachlorophenol	87-86-5	2700	423 U	435 U	423 U	1990 U
Phenanthrene	85-01-8	--	171 J	681	1110	1890 J
Pyrene	129-00-0	17000000	275 J	774	891	3090
Benzo(a)pyrene TEQ	NA	210	1565	951	856	7645

Notes:

Value exceeds industrial soil PRG

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

PRG - preliminary remedial goal

ug/kg - micrograms per kilogram

-- - Not established

NA - Not Applicable

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

TEQ - Toxic Equivalents

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Table 4-8
Detected Semi-Volatile Organic Compounds in Waste - 2008
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Industrial Soil PRG	Sample ID			
			SWP-WS-01	SWP-WS-02	SWP-WS-02 (dup)	SWP-WS-03
			Sample Date			
			2/28/2008	2/28/2008	2/28/2008	2/28/2008
			Depth Interval (ft bls)			
			2.5-3	0.5-2	0.5-2	1.66-2
Semi-Volatile Organic Compound (SVOC) (ug/kg)						
2-Methylnaphthalene	91-57-6	--	423 U	351 J	274 J	553 J
Acenaphthene	83-32-9	33000000	423 U	121 J	760 J	1990 U
Acenaphthylene	208-96-8	--	163 J	223 J	168 J	986 J
Anthracene	120-12-7	170000000	302 J	2250	4390	4830
Benzo(a)anthracene	56-55-3	2100	173 J	459	455	1510 J
Benzo(a)pyrene	50-32-8	210	452	714	639	5440
Benzo(b)fluoranthene	205-99-2	2100	1210	1620	1440	13900
Benzo(g,h,i)perylene	191-24-2	--	297 J	223 J	209 J	1400 J
Benzo(k)fluoranthene	207-08-9	21000	419 J	467	497	4340
Carbazole	86-74-8	--	108 J	618	1280	769 J
Chrysene	218-01-9	210000	278 J	829	792	3760
Dibenzo(a,h)anthracene	53-70-3	210	937 J	435 U	423 U	461 J
Dibenzofuran	132-64-9	--	642 J	210 J	347 J	664 J
Fluoranthene	206-44-0	22000000	296 J	809	995	3600
Fluorene	86-73-7	22000000	423 U	232 J	449	1990 U
Indeno (1,2,3-cd) pyrene	193-39-5	2100	334 J	237 J	221 J	1560 J
Naphthalene	91-20-3	18000	180 J	883	723	1800 J
Pentachlorophenol	87-86-5	2700	423 U	435 U	423 U	1990 U
Phenanthrene	85-01-8	--	171 J	681	1110	1890 J
Pyrene	129-00-0	17000000	275 J	774	891	3090
Benzo(a)pyrene TEQ	NA	210	1565	951	856	7645

Notes:

Value exceeds industrial soil PRG

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

PRG - preliminary remedial goal

ug/kg - micrograms per kilogram

-- - Not established

NA - Not Applicable

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

TEQ - Toxic Equivalents

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Table 4-9
Dioxin in Subsurface Waste - 2008
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Residential Soil PRG	Sample ID			
			SWP-WS-01	SWP-WS-02	SWP-WS-02 dup	SWP-WS-03
			Sample Date			
			2/28/2008	2/28/2008	2/28/2008	2/28/2008
			Depth Interval (ft bls)			
			2.5-3	0.5-2	0.5-2	1.66-2
Dioxins (ng/kg)						
% Moisture	E1644012	--	NA	NA	NA	NA
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	35822-46-9	--	280	1600	13000	13000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	--	160	520	4700	4700
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	--	9.5	24	210	210
1,2,3,4,7,8-Hexachlorodibenzodioxin	39227-28-6	--	1.5 J	3.8 J	22	30
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	--	4.6 J	8.2	91	140
1,2,3,6,7,8-Hexachlorodibenzodioxin	57653-85-7	--	7.9	42	330	360
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	--	2.1 J	4.2 J	31 O	40
1,2,3,7,8,9-Hexachlorodibenzodioxin	19408-74-3	--	3.7 J	7.7	46	54
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	--	1.4 J	3.3 J	17	26
1,2,3,7,8-Pentachlorodibenzodioxin	40321-76-4	--	0.9 J	0.98 J	3.5 O	5.7
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--	0.39 U	1.8 J	4 J	11
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	--	2.8 J	6.7	16	25
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--	1.9 J	6.6 O	48	90
2,3,7,8-Tetrachlorodibenzodioxin	1746-01-6	--	0.36 U	0.47 U	0.7 U	1.3 U
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	--	0.32 U	0.52 U	1.8	3.7
Heptachlorodibenzodioxin (Total)	37871-00-4	--	820	4300	40000	40000
Heptachlorodibenzofuran (Total)	38998-75-3	--	540	2000	19000	17000
Hexachlorodibenzodioxin (Total)	34465-46-8	--	61	270	2100	2400
Hexachlorodibenzofuran (Total)	55684-94-1	--	110	400	3300	4300
Octachlorodibenzodioxin	3268-87-9	--	5200	24000	210000	200000
Octachlorodibenzofuran	39001-02-0	--	520	2200	20000	18000
Pentachlorodibenzodioxin (Total)	36088-22-9	--	2.6 J	10	67	110
Pentachlorodibenzofuran (Total)	30402-15-4	--	11	47	370	640
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	R4-0428		NA	NA	NA	NA
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	R4-0429		NA	NA	NA	NA
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	R4-0430	50	14	56	480	520
Tetrachlorodibenzodioxin (Total)	41903-57-5	--	0.36 U	1.5	14	23
Tetrachlorodibenzofuran (Total)	30402-14-3		0.32 U	5.8	26	33

Notes:

Value exceeds residential Soil PRG

-- - Not established

ft bls - feet below land surface

ng/kg - nanograms per kilogram

NA - Not Applicable

PRG - preliminary remedial goal

TEQ - Toxic Equivalents

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

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Table 4-10
Metals in Subsurface Soil - 2012, 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Industrial Soil PRG	Sample ID			
			SWP001	SWP002	SWP002 (dup)	SWP004
			Sample Date			
			1/8/2013	1/12/2013	1/12/2013	11/6/2012
			Depth Interval (ft bls)			
			9-10	6-12	6-12	5 to 5.5
Metals (mg/kg)						
Aluminum	7429-90-5	990000	5300	8800	8800	6100
Antimony	7440-36-0	410	0.2 U,J,O	0.2 U	0.2 U	0.2 U,J,O
Arsenic	7440-38-2	1.6	3.5	8.4	6.6	2.1
Barium	7440-39-3	190000	82	130	140	77
Beryllium	7440-41-7	2000	0.45	0.72	0.78	0.6 U
Cadmium	7440-43-9	800	0.1 U	0.099 U	0.1	0.099 U
Calcium	7440-70-2	--	8700	1500	1400	1400
Chromium	7440-47-3	--	9.8	16	20	7
Cobalt	7440-48-4	300	3.9	6.3	14	5.7
Copper	7440-50-8	41000	5.8	13	12	7.4
Iron	7439-89-6	720000	9900	21000	23000	10000
Lead	7439-92-1	800	6.6	11	15	12
Magnesium	7439-95-4	--	1200	1800	1700	860
Manganese	7439-96-5	23000	310	490	810	900
Molybdenum	7439-98-7	5100	1 U	0.99 U	1 U	2 U,J,O
Nickel	7440-02-0	20000	7	14	16	5.6
Potassium	7440-09-7	--	380	460	400	350
Selenium	7782-49-2	--	1.3	2.3	2.3	0.4 U,J,O
Silver	7440-22-4	5100	0.5 U	0.49 U	0.5 U	0.99 U
Sodium	7440-23-5	--	240	150	160	380
Strontium	7440-24-6	610000	25	17	18	13
Thallium	7440-28-0	10	0.2 U	0.2 U	0.2 U	0.2 U
Tin	7440-31-5	610000	1.5 U	1.5 U	1.5 U	3 U,J,O
Titanium	7440-32-6	--	41 J,O	45	39	15 J,O
Vanadium	7440-62-2	--	14	27	33	15
Yttrium	7440-65-5	--	6.8	13	13	9.1
Zinc	7440-66-6	310000	21	37	33	22

Notes:

Value exceeds Industrial Soil PRG

-- - Not established

CAS - Chemical Abstract Service

dup - duplicate sample

ft bls - feet below land surface

mg/kg - milligrams per kilogram

PRG - preliminary remedial goal

U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

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Table 4-11
Summary of Geotechnical Results-2012 and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Boring Identification	Depth Interval (ft bls)	Geologic Unit	Soil Description	Soil Classfication (USCS)	Grain Size Distribution				Natural Moisture %	Dry Bulk Density (pcf)
					% Gravel	% Sand	% Silt	% Clay		
SWP001	17-18.5	YC	Dark yellowish brown **SILT with sand**	**ML**	0.0	27.8	49.4	22.8	29.06	119.9
	30-31		Mottled **CLAY**							
	34-35		Gray fat **CLAY**	**CH**	0.0	1.6	17.0	81.4		
	36.5-38		Greenish-gray **CLAY**						26.92	
	71.5-72.5	MF	Gray **Silty SAND**	**SM**	0.0	79.5	9.7	10.8		
	205-206.5	CF	Dark brown **CLAY**							
	297-298		Dark grayish brown poorly graded **SAND with silt**	**SP-SM**	0.0	91.0	6.4	2.6		
SWP002	112.5-113.5	CF	Dark brown **Silty CLAY**						29.40	
	117.5-118		Very dark grayish brown **Silty SAND**	**SM**	0.0	61.2	22.9	15.9		
SWP004	6-8	F	Mottled **Silty CLAY**							119.0
	14-15	YC	Dark brown **CLAY**							116.7
	20-21		Olive yellow fat **CLAY**	**CH**	0.0	4.3	26.9	68.8		
	28.5-30		Greenish-gray **CLAY**						52.87	
	31.5-33		Olive gray fat **CLAY**	**CH**	0.0	6.6	36.0	57.4		
	68-69	MF	Olive gray **Silty SAND**	**SM**	0.8	66.8	13.9	18.5		
	72-73	CF	Black fat **CLAY**	**CH**	0.0	11.4	40.2	48.4		

Notes:

1) Soil description and classification completed by geotechnical lab and is based on visual classification where grain size and atterburg limits were not performed. Shaded descriptions are based on the log of boring.
2) Color determined by Munsell's Color Chart for Soils by geotechnical lab; field observations where shaded
3) Organic Matter determined by Walkley Black Method
   Moisture Content determined by ASTM D2216
   Atterberg Limits determined by ASTM D4318
   Grain Size Distribution determined by ASTM D422
   Hydraulic Conductivity determined by ASTM D5084
   Soil pH determined by EPA Method 9045

Abbreviations:

LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
su = standard units
pcf = per cubic foot
ft bls = feet below land surface
cm/sec = centimeters per second
USCS = Unified Soil Classification System

Geologic Units:

F = fill
YC = Yazoo Clay
MF = Moody's Branch Formation
CF = Cockfield Formation

Table 4-11
Summary of Geotechnical Results-2012 and 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Boring Identification	Depth Interval (ft bls)	Geologic Unit	Soil Description	Atterberg Limits			pH (su)	Organic Content %	Hydraulic Conductivity (K)		
				LL	PL	PI			Bulk Density (pcf)	Dry Density (pcf)	Hydraulic Conductivity (cm/sec)
SWP001	17-18.5	YC	Dark yellowish brown **SILT with sand**					0.19	99.2	77.8	8.40E-09
	30-31		Mottled **CLAY**				8.40				
	34-35		Gray fat **CLAY**					0.13			
	36.5-38		Greenish-gray **CLAY**	65	18	47			119.4	92.6	5.90E-09
	71.5-72.5	MF	Gray **Silty SAND**					0.10			
	205-206.5	CF	Dark brown **CLAY**	63	22	41		0.31			
	297-298		Dark grayish brown poorly graded **SAND with silt**								
SWP002	112.5-113.5	CF	Dark brown **Silty CLAY**						127.2	98.8	1.60E-08
	117.5-118		Very dark grayish brown **Silty SAND**					1.21			
SWP004	6-8	F	Mottled **Silty CLAY**					0.03			
	14-15	YC	Dark brown **CLAY**								
	20-21		Olive yellow fat **CLAY**				7.65	0.13			
	28.5-30		Greenish-gray **CLAY**						105.4	69.1	1.40E-08
	31.5-33		Olive gray fat **CLAY**	65	17	48		0.26			
	68-69	MF	Olive gray **Silty SAND**					0.23			
	72-73	CF	Black fat **CLAY**	56	14	42		0.52			

Notes:

1) Soil description and classification completed by geotechnical lab and is based on visual classification where grain size and atterburg limits were not performed. Shaded descriptions are based on the log of boring.
2) Color determined by Munsell's Color Chart for Soils by geotechnical lab; field observations where shaded
3) Organic Matter determined by Walkley Black Method
   Moisture Content determined by ASTM D2216
   Atterberg Limits determined by ASTM D4318
   Grain Size Distribution determined by ASTM D422
   Hydraulic Conductivity determined by ASTM D5084
   Soil pH determined by EPA Method 9045

Abbreviations:

LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
su = standard units
pcf = per cubic foot
ft bls = feet below land surface
cm/sec = centimeters per second
USCS = Unified Soil Classification System

Geologic Units:

F = fill
YC = Yazoo Clay
MF = Moody's Branch Formation
CF = Cockfield Formation

Table 4-12
Monitoring Well Groundwater Data - 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Tap Water PRG (ug/L)	Sample ID		
			MW001	MW001 (dup)	MW002
			Screened Interval (ft bls)		
			290-300	290-300	300-310
			Sample Date		
			1/22/2013	1/22/2013	1/22/2013
Semi-Volatile Organic Compounds (µg/L)					
Acenaphthene	83-32-9	400	0.1 U	0.13	0.1 U
Dibenzofuran	132-64-9	5.8	2 U	2 U	2 U
Fluoranthene	206-44-0	630	0.1 U	0.1	0.1 U
Fluorene	86-73-7	220	0.1 U	0.12	0.1 U
Naphthalene	91-20-3	0.14	0.1 U	0.13	0.1 U
Phenanthrene	85-01-8	--	0.4	0.49	0.1 U
Total SVOCs	NA	NA	0.4	0.97	ND
Volatile Organic Compounds (µg/L)					
Bromodichloromethane	75-27-4	0.12	0.5 U	0.5 U	0.13 J,O
Carbon Tetrachloride	56-23-5	0.39	0.5 U	0.5 U	0.16 J,O
Chloroform	67-66-3	0.19	0.14 J,O	0.16 J,O	0.92
Total VOCs	NA	NA	0.14	0.16	1.21
Metals (µg/L)					
Aluminum	7429-90-5	16000	340	350	150
Arsenic	7440-38-2	0.045	1 U	1 U	1.8
Barium	7440-39-3	2900	120	120	110
Calcium	7440-70-2	--	27000	27000	50000
Iron	7439-89-6	11000	2700	2700	170
Lead	7439-92-1	--	1 U	1 U	1
Magnesium	7439-95-4	--	5700	5800	15000
Manganese	7439-96-5	320	78	79	66
Molybdenum	7439-98-7	78	10 U	10 U	19
Potassium	7440-09-7	--	3000	3100	5400
Sodium	7440-23-5	--	25000	25000	63000
Strontium	7440-24-6	9300	340	330	1600
Titanium	7440-32-6	--	8.5	7	5 U
Zinc	7440-66-6	4700	23	19	20
Field Parameters					
Dissolved Oxygen (mg/L)	NA	NA	0.17	NA	0.26
Oxidation Reduction Potential (mV)	NA	NA	-96	NA	-115.8
pH (SU)	NA	NA	6.51	NA	7.88
Specific Conductivity (mS/cm)	NA	NA	0.305	NA	0.611
Temperature (Deg C)	NA	NA	19.71	NA	18.36
Turbidity (NTU)	NA	NA	8.61	NA	4.35

Table 4-12
Monitoring Well Groundwater Data - 2013
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Chemical Name	CAS Number	Tap Water PRG (ug/L)	Sample ID		
			MW001	MW001 (dup)	MW002
			Screened Interval (ft bls)		
			290-300	290-300	300-310
			Sample Date		
			1/22/2013	1/22/2013	1/22/2013
Classical Nutrients (mg/L)					
Alkalinity, Total (as CaCO3)	E1640192	--	88	89	310
Carbon, Organic	E701250	--	2.2 O	2.9 O	7.3 O
Nitrate/Nitrite as N	E701177	--	0.05 U	0.05 U	0.05 U
Sulfate as SO4	14808-79-8	--	50	50	15
Sulfide	18496-25-8	--	1 U	1	1 U

Notes:

Value exceeds Tap Water PRG

ft bls - feet below land surface

-- - Not established

CaCO3 - calcium carbonate

CAS - Chemical Abstract Service

Deg C - degrees centigrade

dup - duplicate sample

mg/L - milligrams per liter

mS/cm - millisiemens per centimeter

mV - millivolts

µg/L - micrograms per liter

NA - Not applicable

ND - Not detected

NTU - Nephelometric Turbidity Unit

PRG - preliminary remedial goal

SU - Standard Units

SVOC - Semi-volatile organic compound

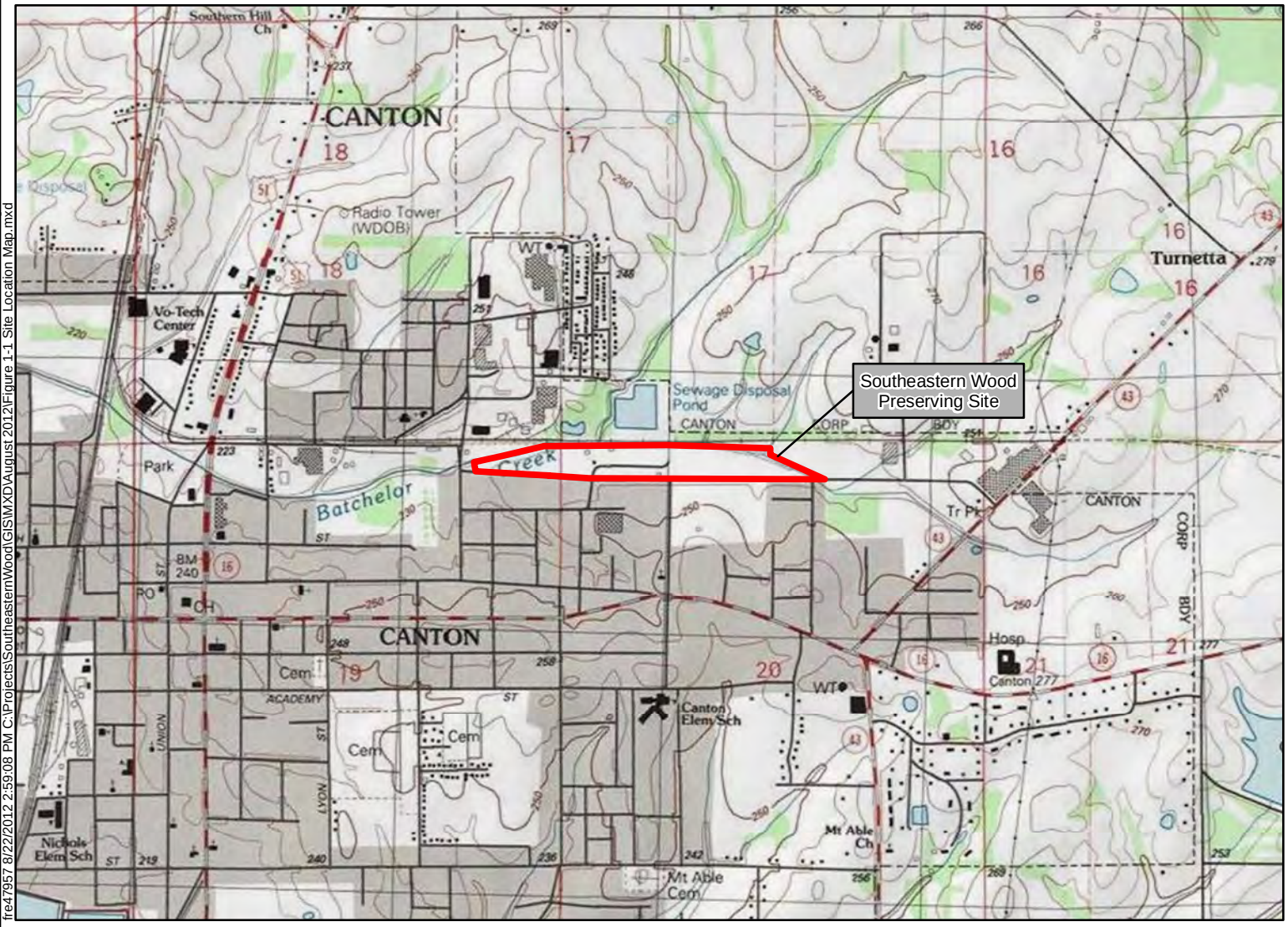
U - The analyte was not detected at or above the reporting limit

J - Estimated Value

O - Other qualifiers, provided from the laboratory to explain qualifier

FIGURES

APPENDICES



fre47957 8/22/2012 2:59:08 PM C:\Projects\SoutheasternWood\GIS\MXD\August 2012\Figure 1-1 Site Location Map.mxd

N

0
0.25
0.5
Miles

NAD 83 State Plane Mississippi West, Feet

Site Location Map
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure
2.-1

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fre47957 8/22/2012 3:00:08 PM C:\Projects\SoutheasternWood\GIS\MXD\August 2012\Figure 1-2 Site Layout.mxd

N 0 150 300 600
Feet
NAD83 Stateplane Mississippi West, Feet

Site Layout
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 2-2

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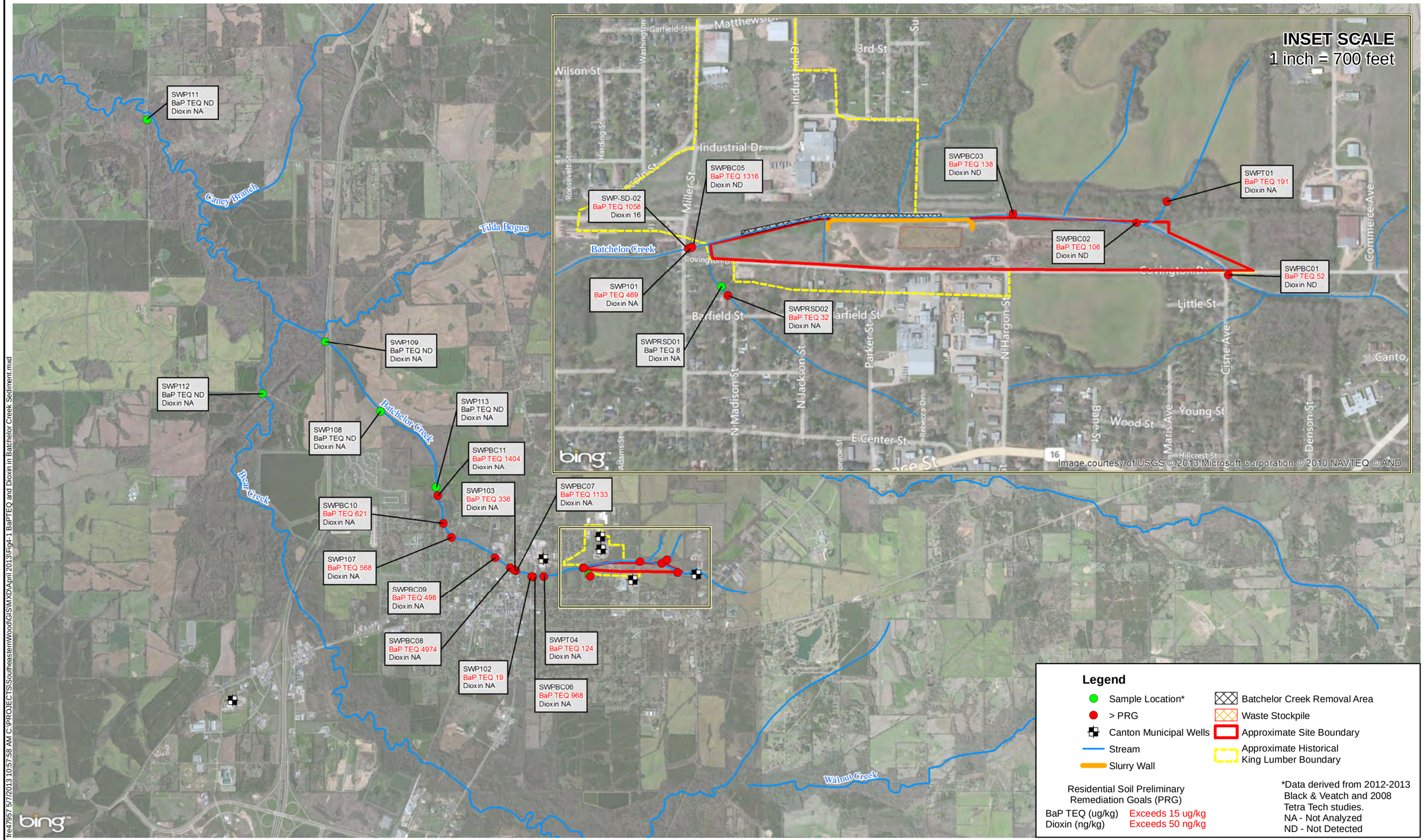

fre47957 5/7/2013 10:57:58 AM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-1 BaPTEQ and Dioxin in Batchelor Creek Sediment.mxd

Benzo(a)Pyrene Toxic Equivalents (BaP TEQ) and Dioxin in Batchelor Creek Sediment
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-1

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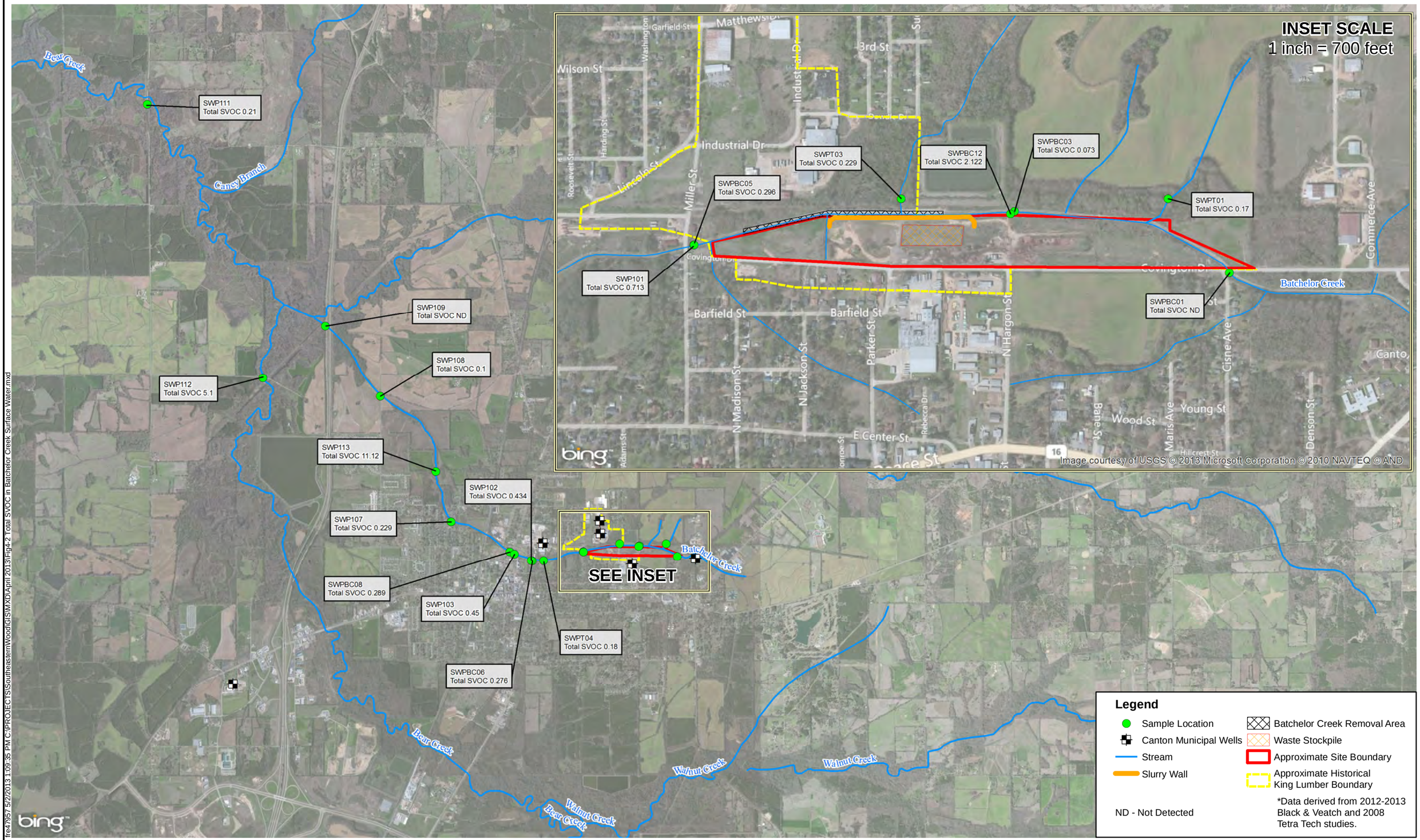

Legend

- Sample Location
- Canton Municipal Wells
- Stream
- Slurry Wall
- Batchelor Creek Removal Area
- Waste Stockpile
- Approximate Site Boundary
- Approximate Historical King Lumber Boundary

ND - Not Detected

*Data derived from 2012-2013 Black & Veatch and 2008 Tetra Tech studies.

N

0 2,000 4,000 8,000

Feet

NAD83 Stateplane Mississippi West, Feet

Total Semi-Volatile Organic Compounds (SVOCs) in Batchelor Creek Surface Water
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-2

fre47957 5/2/2013 1:09:35 PM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-2 Total SVOC in Batchelor Creek Surface Water.mxd

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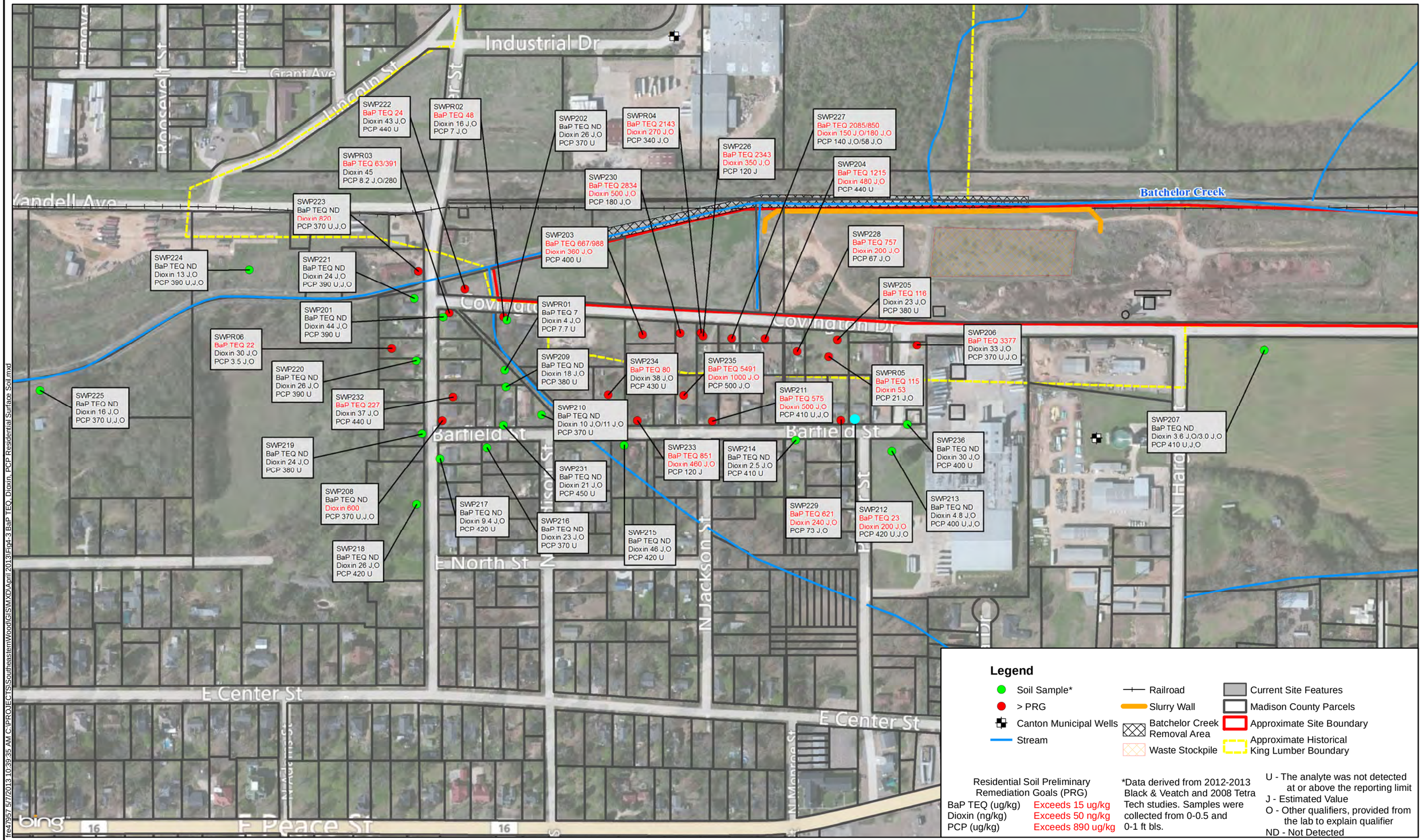

Legend

- Soil Sample*
- > PRG
- Canton Municipal Wells
- Stream
- Railroad
- Slurry Wall
- Batchelor Creek Removal Area
- Waste Stockpile
- Current Site Features
- Madison County Parcels
- Approximate Site Boundary
- Approximate Historical King Lumber Boundary

Residential Soil Preliminary Remediation Goals (PRG)

BaP TEQ (ug/kg)	Exceeds 15 ug/kg
Dioxin (ng/kg)	Exceeds 50 ng/kg
PCP (ug/kg)	Exceeds 890 ug/kg

*Data derived from 2012-2013 Black & Veatch and 2008 Tetra Tech studies. Samples were collected from 0-0.5 and 0-1 ft bls.

U - The analyte was not detected at or above the reporting limit
J - Estimated Value
O - Other qualifiers, provided from the lab to explain qualifier
ND - Not Detected

N

0 150 300 600

Feet

NAD83 Stateplane Mississippi West, Feet

Benzo(a)Pyrene Toxic Equivalents (BaP TEQ), Dioxin, and Pentachlorophenol (PCP) in Residential Surface Soil
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-3

fre47957 5/7/2013 10:39:35 AM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-3 BaP TEQ, Dioxin, PCP Residential Surface Soil.mxd

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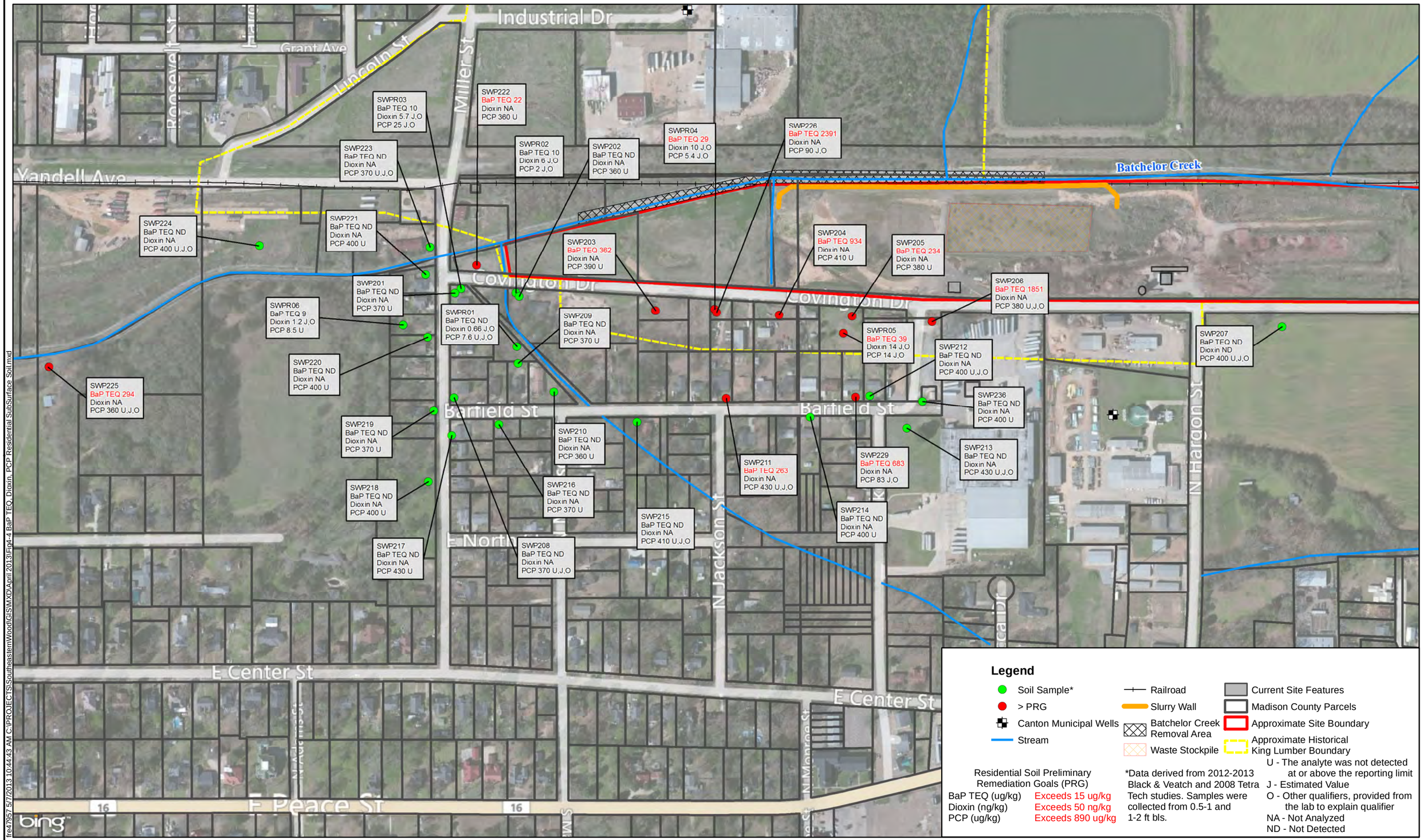

Legend

- Soil Sample*
- > PRG
- Canton Municipal Wells
- Stream
- Railroad
- Slurry Wall
- Batchelor Creek Removal Area
- Waste Stockpile
- Current Site Features
- Madison County Parcels
- Approximate Site Boundary
- Approximate Historical King Lumber Boundary

Residential Soil Preliminary Remediation Goals (PRG)

BaP TEQ (ug/kg)	Exceeds 15 ug/kg
Dioxin (ng/kg)	Exceeds 50 ng/kg
PCP (ug/kg)	Exceeds 890 ug/kg

*Data derived from 2012-2013 Black & Veatch and 2008 Tetra Tech studies. Samples were collected from 0.5-1 and 1-2 ft bls.

U - The analyte was not detected at or above the reporting limit
J - Estimated Value
O - Other qualifiers, provided from the lab to explain qualifier
NA - Not Analyzed
ND - Not Detected

N 0 150 300 600 Feet

NAD83 Stateplane Mississippi West, Feet

Benzo(a)Pyrene Toxic Equivalents (BaP TEQ), Dioxin, and Pentachlorophenol (PCP) in Residential Subsurface Soil
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-4

fre47957 5/7/2013 10:44:43 AM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-4 BaP TEQ, Dioxin, PCP Residential SubSurface Soil.mxd

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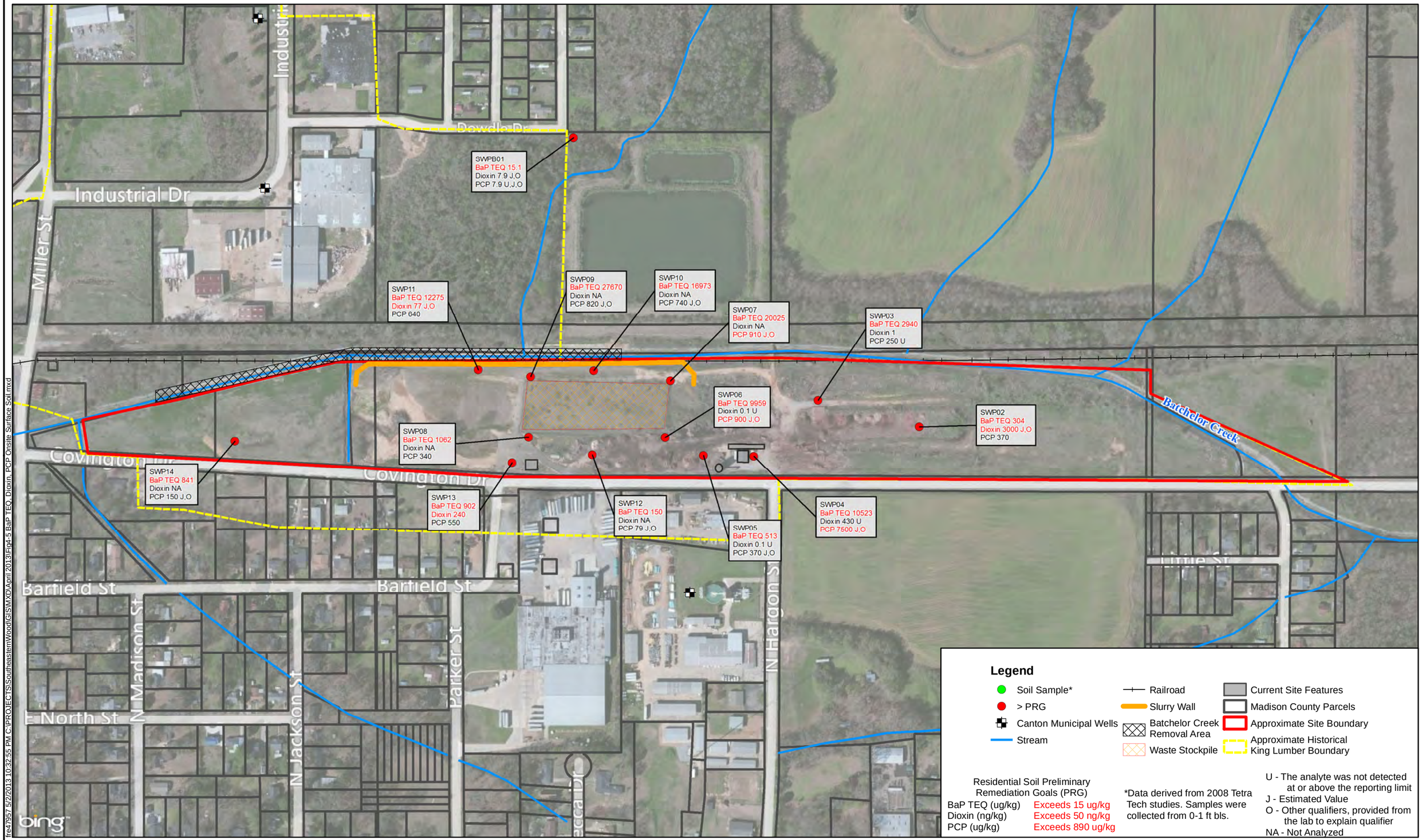

N 0 150 300 600 Feet

NAD83 Stateplane Mississippi West, Feet

Benzo(a)Pyrene Toxic Equivalents (BaP TEQ), Dioxin, and Pentachlorophenol (PCP) in Onsite Surface Soil
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-5

fre47957 5/2/2013 10:32:55 PM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-5 BaP TEQ, Dioxin, PCP Onsite Surface Soil.mxd

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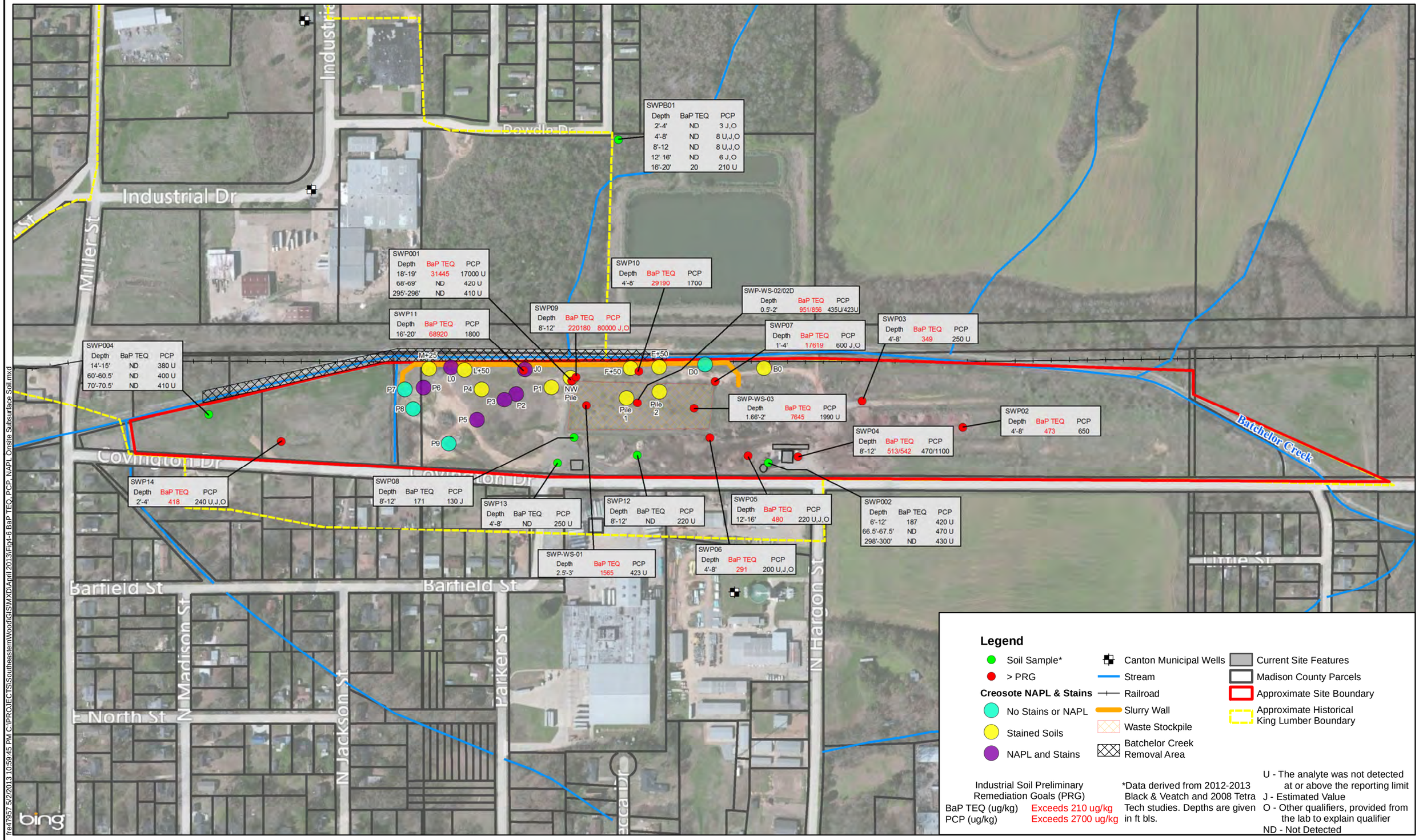

fre47957 5/2/2013 10:59:45 PM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-6 BaP TEQ, PCP, NAPL Onsite Subsurface Soil.mxd

Benzo(a)Pyrene Toxic Equivalents (BaP TEQ), Pentachlorophenol (PCP), and indications of Creosote Non-Aqueous Phase Liquid (NAPL) in Onsite Subsurface Soil
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-6

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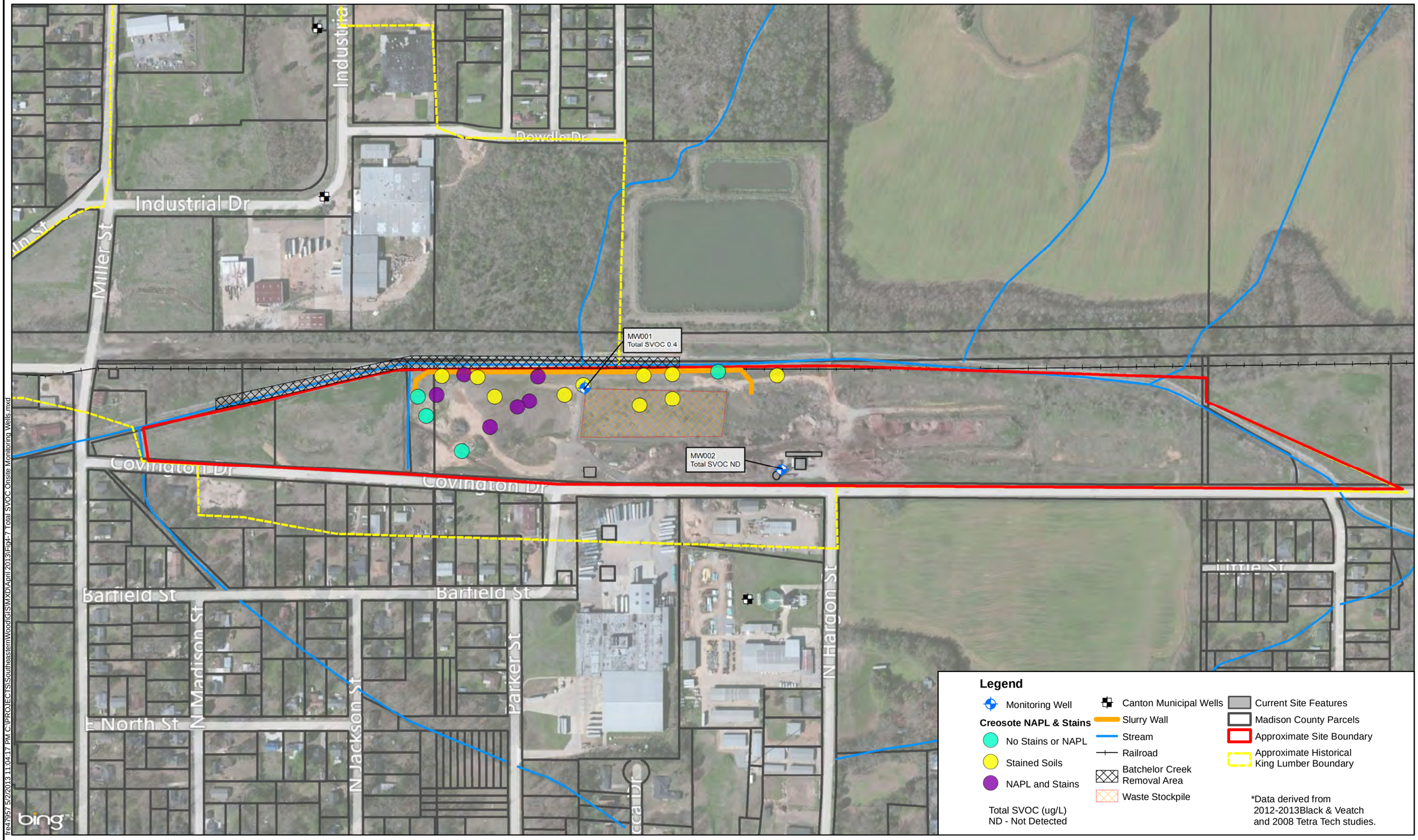

fr647957 5/2/2013 11:04:17 PM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig4-7 Total SVOC Onsite Monitoring Wells.mxd

N 0 150 300 600
Feet
NAD83 Stateplane Mississippi West, Feet

Total Semi-Volatile Organic Compounds (SVOC) in Onsite Monitoring Wells
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 4-7

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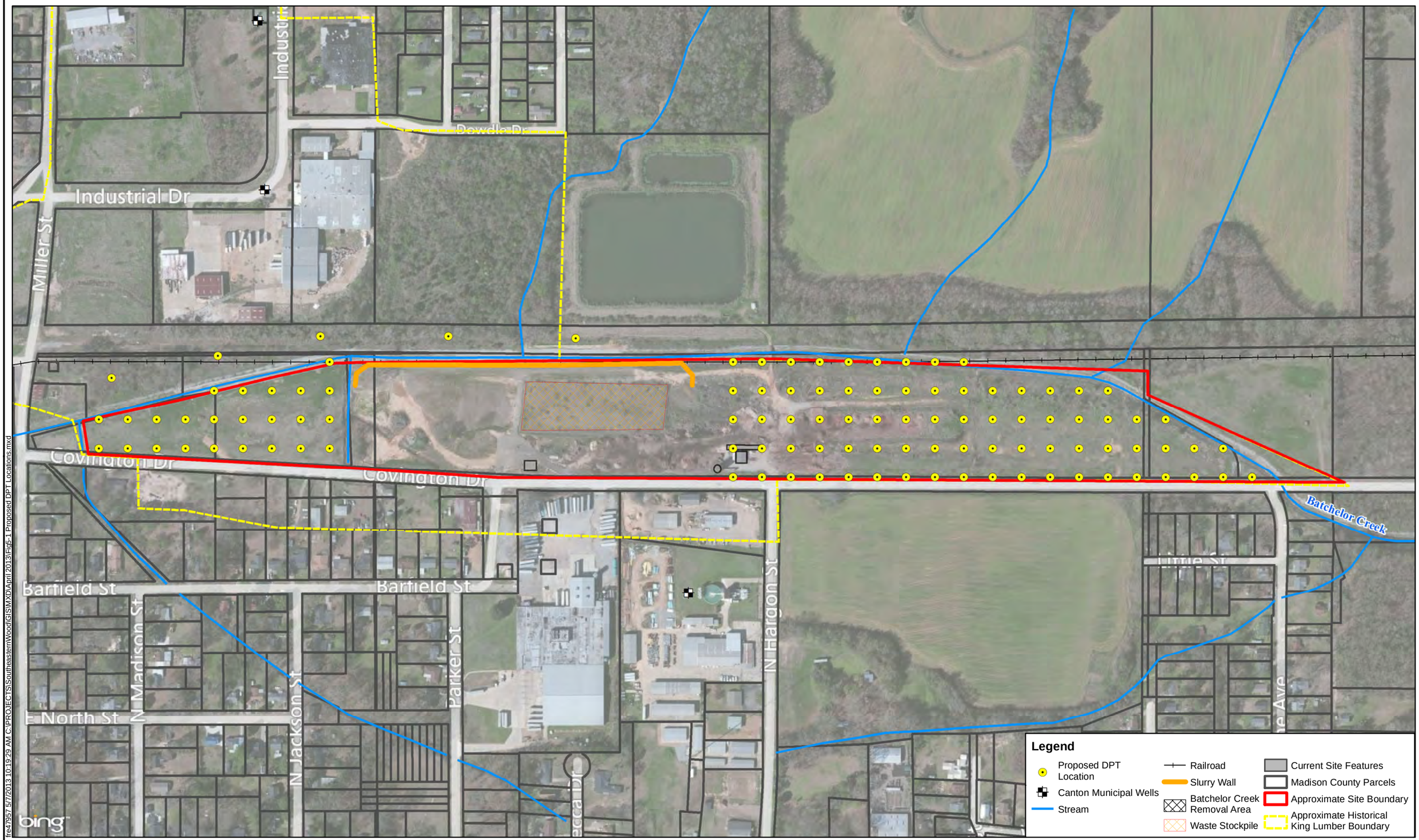

fre47957 5/7/2013 10:19:29 AM C:\PROJECTS\SoutheasternWood\GIS\MXD\April 2013\Fig5-1 Proposed DPT Locations.mxd

N 0 150 300 600
Feet
NAD83 Stateplane Mississippi West, Feet

Proposed Phase 2 Sampling Locations
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure 5-1

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APPENDIX

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APPENDIX A

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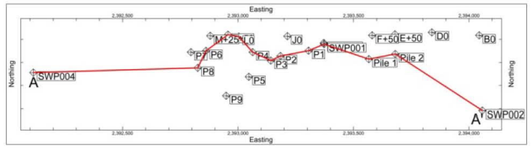
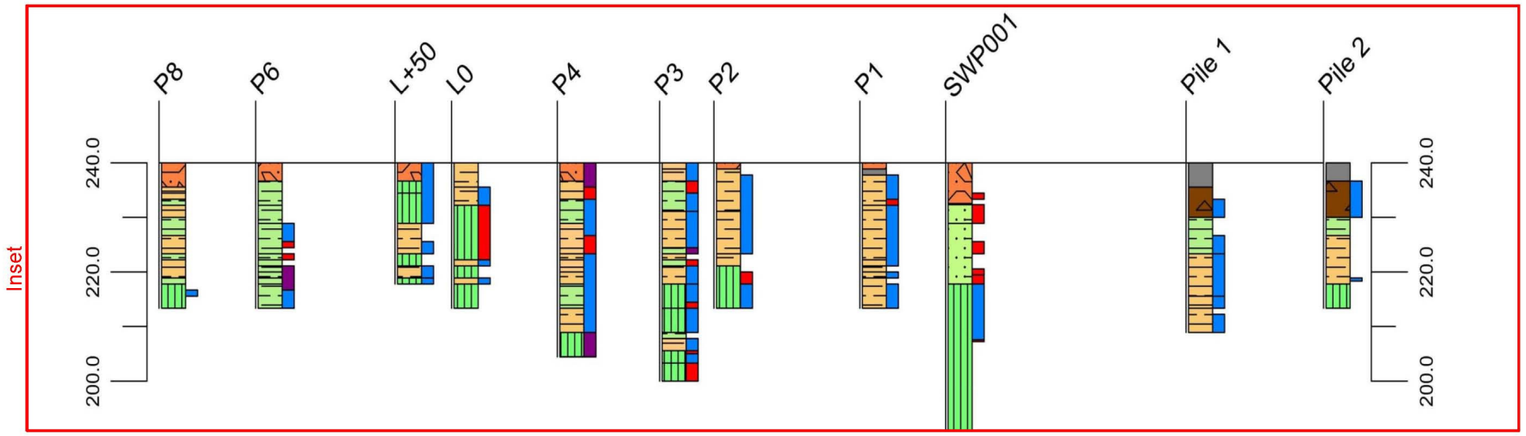
Legend

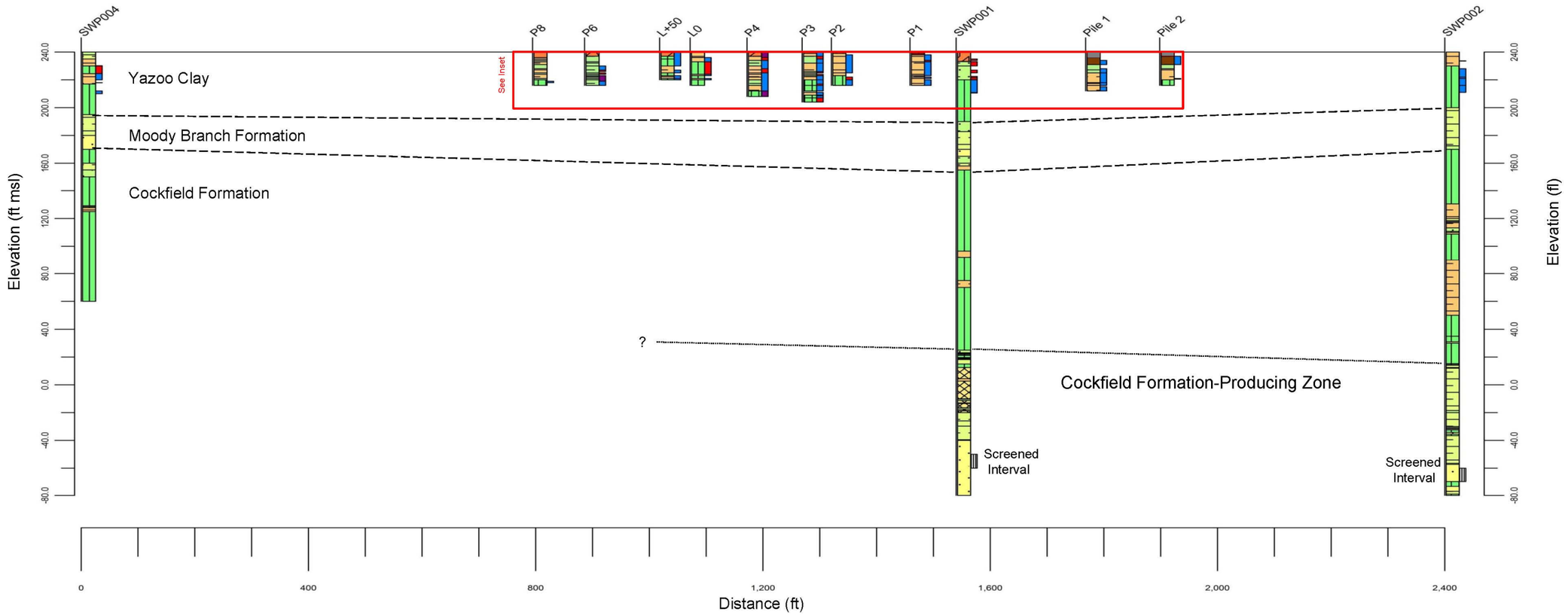
Cap
Clay
Clayey Sand
Clayey Silt
Concrete
Fill
Sand
Sandy Clay
Silt
Silty Clay
Silty Sand
Sludge

Odor
Staining
Product
Screened Interval
Approximate Contact

*Surface elevations were not surveyed, a default elevation of 240 ft mls used for all borings







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Generalized Cross-Section
Southeastern Wood Preserving
Canton, Madison County, Mississippi

Figure
A-1

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Well Completion Log

Well No. SWP001

CLIENT	PROJECT	PROJECT NO.
U.S. EPA Region IV	Southeastern Wood Preserving	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, Madison County, Mississippi	Grass/Dirt/Mud	320

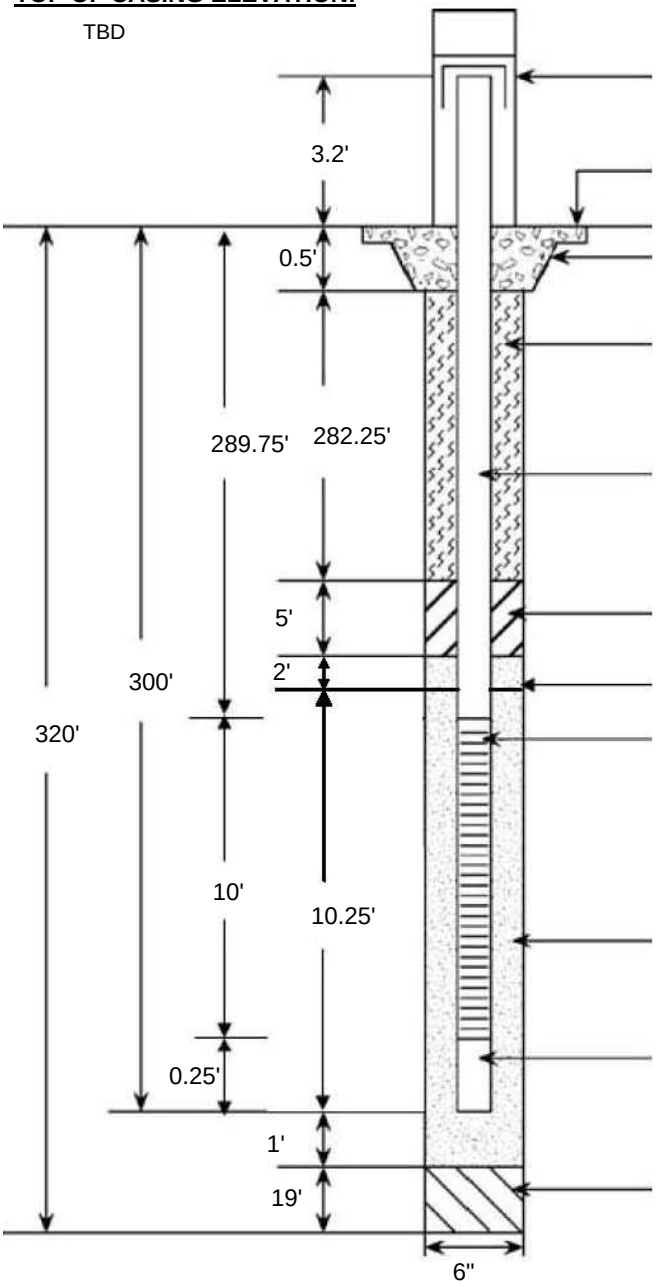
COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	01/11/13	01/12/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Versasonic	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

TOP OF CASING ELEVATION:

TBD



PROTECTIVE CASING:
Aluminum Stickup

WELL PAD ELEVATION:
TBD

WELL PAD DIMENSIONS:
2'x2'x6"

TYPE OF GROUT:
Pure Gold Bentonite Grout

N.D & TYPE OF RISER PIPE:
2-Inch Stainless Steel

TYPE OF PRIMARY SEAL:
Uncoated Bentonite Pellets

TYPE OF SECONDARY FILTER:
30/60 Silica Sand

N.D. & TYPE OF SCREEN:
2-Inch Stainless Steel, Wirewrap
0.01-inch slot

TYPE OF FILTER:
20/30 Silica Sand

TYPE OF END CAP:
2-inch threaded stainless steel

BACKFILL MATERIAL:
Natural Fill (collapse) and 20/30 Silica Sand

(NOT TO SCALE)

METHOD OF INSTALLATION/REMARKS: Centralizers used every 30-feet; grout placed using a tremie pipe; protective bollards installed around well.

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Well Completion Log

Well No. SWP002

CLIENT	PROJECT	PROJECT NO.
U.S. EPA Region IV	Southeastern Wood Preserving	049065

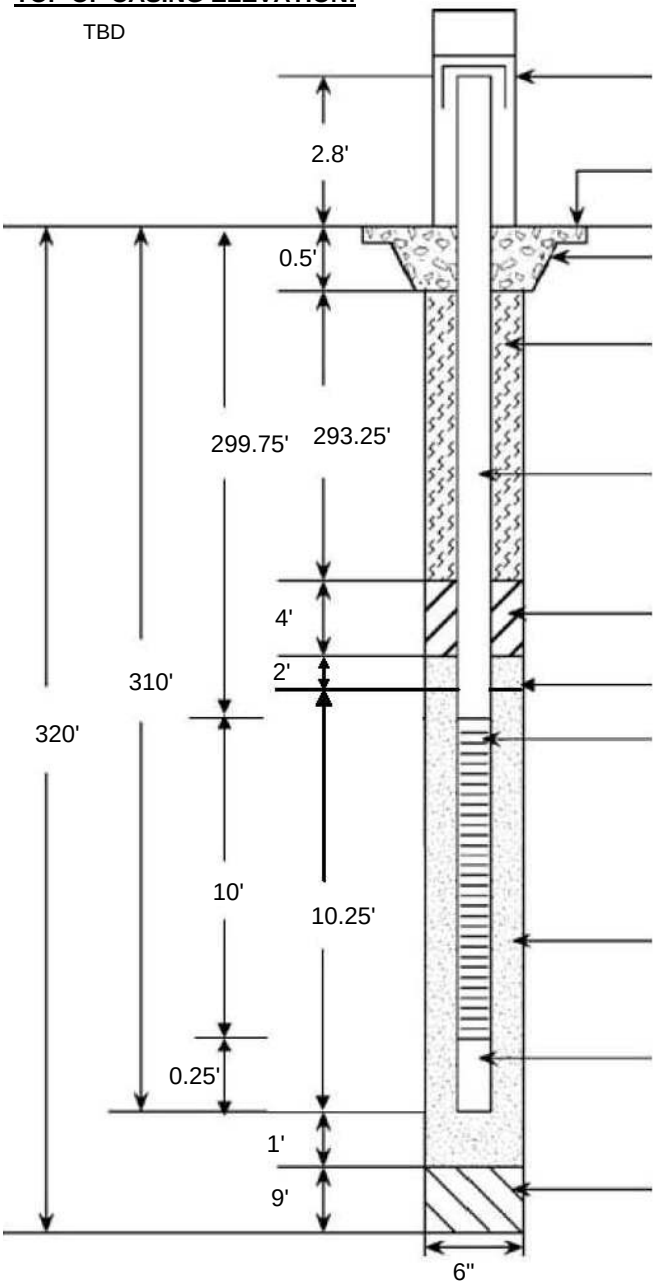
PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, Madison County, Mississippi	Mud/Dirt/Gravel	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134091.684 E 2394057.757	TBD	01/15/13	01/15/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Versasonic	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

TOP OF CASING ELEVATION:
TBD



PROTECTIVE CASING:
Aluminum Stickup

WELL PAD ELEVATION:
TBD

WELL PAD DIMENSIONS:
2'x2'x6"

TYPE OF GROUT:
Pure Gold Bentonite Grout

N.D & TYPE OF RISER PIPE:
2-Inch Stainless Steel

TYPE OF PRIMARY SEAL:
Uncoated Bentonite Pellets

TYPE OF SECONDARY FILTER:
30/60 Silica Sand

N.D. & TYPE OF SCREEN:
2-Inch Stainless Steel, Wirewrap
0.01-inch slot

TYPE OF FILTER:
20/30 Silica Sand

TYPE OF END CAP:
2-inch threaded stainless steel

BACKFILL MATERIAL:
Natural Fill (collapse)

(NOT TO SCALE)

METHOD OF INSTALLATION/REMARKS: Centralizers used every 30-feet; grout placed using a tremie pipe; protective bollards installed around well. A concrete pad was encountered while installing bollards, resulting in uneven heights.

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LOG OF BORING

Well/Boring No. SWP001

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Dirt/Mud/Grass		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134379.107 E 2393372.552	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/8/13	**END DATE** 1/11/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								0			Posthole to 5-feet (utility clearance)	Set 8-inch override casing (0-40')
								1				
								2				
								3				
								4				
CB	1	5	5	--	--	--	100	5	89.1		SAND; dark brown to black; fine grained; subrounded; wet; oily sheen; strong odor	Saturated with free flowing NAPL
								6			Clayey SAND; light orange; fine grained; dry	
								7			Concrete Slab (6.7-6.9')	Free Flowing creosote occurring in pockets (6.9 - 10')
								8			Sandy CLAY/Clayey SAND; dark brown to orange; soft; medium plasticity; fine grained; subrounded; wet; strong odor	
								9	204.3			
CB	2	20	20	--	--	--	100	10			With some gravel	
								11			Sandy CLAY; mottled dark brown to orange, light gray and white; moderately stiff; non-plastic; dry; strong odor	
								12				
								13	219.3			Staining and residual creosote (13-15')
								14				
								15			Grading soft to moderately stiff; medium plasticity; moist; strong odor	
								16				17-18.5' Geotechnical Lab results indicate material is a dark yellowish brown silt with sand (27.8% Sand, 49.4% Silt, 22.8% Clay)
								17				
								18	497		With pockets of coarse sand that contains an oily sheen from 17.5 - 18.5'	Sands are saturated with residual creosote (17.5-18.5'); Staining with some pockets of creosote/oily sheen (18.5-20')
								19				
								20				

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															20			CLAY; mottled orange, light gray, brown, black; moderately stiff; medium plasticity; no odor	Staining (20-30.5')
															21				
															22	23.4			
															23	20.5			
															24				
															25			Grading stiff to moderately stiff; medium to high plasticity	
															26	25.3			
															27				
															28				
															29			With oily sheen; strong odor (29.2-29.5')	Creosote; non-mobile (29.2-29.5')
CB	3	20	20	--	--	--	100								30			Grading moist	
															31	11.1			
															32				
															33	4.3			
															34			Grading greenish gray; stiff; medium plasticity; moist with some shell fragments	
															35			With trace of shell fragments and some silt	34-35' Geotechnical Lab results indicate material is a gray fat clay (1.6% Sand, 17% Silt, 81.4% Clay)
															36				
															37				
															38	33.4			
															39				
															40				

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LOG OF BORING

Well/Boring No. SWP001

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Dirt/Mud/Grass		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134379.107 E 2393372.552	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/8/13	**END DATE** 1/11/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															40			CLAY; mottled orange, light gray, brown, black; stiff to moderately stiff; high plasticity; some silt and some shell fragments	
															41				
															42				
															43	5.6			
															44				
															45				
															46				
															47				
															48				
															49	9.1		Increasing shell fragments with some sand	
								CB	4	20	20	--	--	--	50			Sandy CLAY; grayish green; moderately stiff; medium plasticity; moist with abundant shell fragments	
															51				
															52				
															53				
															54				
															55	4.8			
															56				
															57			Clayey SAND; grayish green to dark green; fine grained; subangular; medium dense; moist with abundant shell fragments and pockets of loose sand [glauconite rich zones]	
															58				
															59				
															60	7.5			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															60			Clayey SAND; grayish green to dark green; fine grained; subangular; medium dense; moist with abundant shell fragments and pockets of loose sand [glauconite rich zones]	
															61				
															62	3.9			
															63				
															64				
															65			Grading green to dark green; soft to medium dense	
															66				
															67				
															68				
															69	6.0			
CB	5	20	20	--	--	--	100								70			SAND; green to dark green; fine grained; loose to moderately dense; moist with some clay and some shell fragments	
															71				71.5-72.5' Geotechnical Lab results indicate material is a gray silty sand (79.5% Sand, 9.7% Silt, 10.8% Clay)
															72				
															73				
															74	6.7			
															75			Sandy CLAY; green to dark green; moderately stiff; medium plasticity; moist with shell fragments	
															76				
															77				
															78				
															79	7.5			
															80				

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LOG OF BORING

Well/Boring No. SWP001

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Dirt/Mud/Grass		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134379.107 E 2393372.552	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/8/13	**END DATE** 1/11/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								80			Clayey SAND; dark green to brown; fine grained; subangular; loose; saturated (drilling water)	
								81				
								82			Silty CLAY; dark brown; moderately stiff; medium plasticity; moist with abundant organics [lignite] and burrows	
								83	6.9			
								84				
								85			CLAY; dark brown; stiff to hard; medium plasticity; moist with some silt and some lignite; with trace pockets of pyrite	
								86				
								87				
								88				
								89	4.9			
CB	6	20	20	--	--	--	100	90				
								91				
								92				
								93	2.4			
								94				
								95				
								96				
								97				
								98				
								99			With some sand	
								100	6.3			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS / Remarks
																101			CLAY; dark brown; stiff to hard; medium plasticity; moist with some 6 inch sand lenses; some lignite, some silt and trace pockets of pyrite
																102			
																103			
																104			
																105	3.8		
																106			
																107			
																108			
																109	2.9		
																110			
CB	7	20	20	--	--	--	100									111			Grading hard; medium to high plasticity; moist with trace pyrite
																112			
																113	2.9		
																114			
																115			
																116			
																117			
																118			
																119			
																120			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																121			CLAY; dark brown; hard; medium to high plasticity; moist with trace pockets of pyrite With organics [lignite]	
																122			2-inch silty clay lens with pyrite	
																123				
																124				
																125	2.9		With pyrite pockets and minor lenses of silt throughout	
																126				
																127				
																128				
																129	3.6			
								CB	8	20	20	--	--	--	100	130			Lignite lenses at 130, 132.2 and 140'	
																131				
																132				
																133				
																134				
																135			Silt Lenses at 135, 137.5 and 137.8'	
																136				
																137				
																138				
																139	1.8			
																140				

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															141			CLAY; dark brown; stiff to hard; medium plasticity; moist with some 6 inch sand lenses; some lignite, some silt and trace pockets of pyrite (140-143.6')	
															142				
															143				
															144			Silty CLAY; dark brown; moderately stiff; medium plasticity; moist	
															145			Silty sand lenses at 145.2, 145.5, 146, 147, 147.3 and 147.9'	
															146				
															147				
															148			CLAY; dark brown; stiff; medium to high plasticity; moist with trace pyrite	
															149	1.5			
CB	9	20	20	--	--	--	100								150			With some black variegated zones of organics and trace of silt	
															151				
															152				
															153				
															154	1.3			
															155			With some sandy silt; light gray zones with some organics	
															156				
															157				
															158				
															159				
															160				

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LOG OF BORING

Well/Boring No. SWP001

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Dirt/Mud/Grass		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134379.107 E 2393372.552	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/8/13	**END DATE** 1/11/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								161			CLAY; dark brown; stiff; medium to high plasticity; moist with trace pyrite and some sandy silt and light gray zones of organics	
								162				
								163			With some silt	
								164				
								165	0.8		Silty CLAY; brown; stiff; with some black variegation	
								166				
								167			With some thin zones of gray silt	
								168	0.6			
								169				
CB	10	20	20	--	--	--	100	170			CLAY; dark brown; stiff; medium to high plasticity; moist with trace pyrite	
								171				
								172				
								173				
								174	3.3			
								175				
								176				
								177				
								178				
								179	1.6			
								180				

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Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS / Remarks
																181			CLAY; dark brown; stiff; medium to high plasticity; moist with trace pyrite
																182			
																183			
																184	1.8		
																185			
																186			
																187			
																188			Zone of sandy silt with lignite from 187.7-188'
																189			
																190	2.0		
CB	11	10	10	--	--	--	100												Grading to very hard; high plasticity; moist with some lignite; expansive
																191			
																192			
																193			
																194			
																195			
																196			
																197			
																198			
																199			
CB	12	20	20	--	--	--	100									200			

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Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															201			CLAY; dark brown; very hard; high plasticity; moist with lignite and trace zones of sandy silt
															202			
															203			
															204			
															205			
															206			
															207			
															208			
															209			
															210			Grading to medium plasticity; moist with some lignite
															211			
															212			
															213			
															214	0.2		
															215			Sandy CLAY; dark gray to dark brown; stiff; medium plasticity; moist
															216			
															217			
															218			216.9-225' Interbedded CLAY; dark brown to dark gray; hard; medium plasticity; moist/ SAND; dark gray; fine grained; loose; wet with some clay/Clayey SAND; dark gray; fine grained; loose; wet
															219			
CB	13	20	20	--	--	--	100								220			

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																221			216.9-225' Interbedded CLAY; dark brown to dark gray; hard; medium plasticity; moist/ SAND; dark gray; fine grained; loose; wet with some clay/Clayey SAND; dark gray; fine grained; loose; wet	
																222				
																223				
																224				
																225	2.3		CLAY; dark gray; stiff; medium plasticity; moist	
																226			2-inch clayey sand lens at 226.5'	
																227				
																228			Silty SAND; dark gray; fine grained; loose; moist	
																229				
																230	2.6		With variegated layers of organics [lignite]	
																231			Grades to light gray; moderately dense to loose; with lignite (230-230.5')	
																232				
																233				
																234	0.9			
																235				
																236			Silty CLAY; dark gray; stiff; non-plastic to medium plasticity; moist with some sand lenses	
																237				
																238			Silty SAND; fine grained; subangular; loose; moist with some clay	
																239				
CB	14	20	20	--	--	--	100									240	2.6			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															241			Silty SAND; fine grained; subangular; loose; moist with some clay	
															242	1.7			
															243				
															244				
															245			Grading to dense	
															246				
															247				
															248	2.2			
															249				
															250	1.7		250-260' Interbedded Silty CLAY and Silty SAND; gray; moderately stiff; low to medium plasticity; moist	
															251				
															252				
															253				
															254			2-inch clay lens at 254.5'	
															255			Moderately dense; with clay	
															256				
															257				
															258				
															259			With clay layers	
CB	15	20	20	--	--	--	100								260	3.0			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															261			Clayey SAND; gray; fine grained; loose to moderately dense; moist
															262			
															263			
															264			
															265			
															266			
															267			Sandy CLAY; gray to dark gray; hard; medium plasticity; moist
															268			
															269			
															270			
															271			grading to very hard; with some small sand lenses
															272			
															273			
															274			
															275			
															276			
															277			
															278			
															279			
CB	16	20	20	--	--	--	100								280			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Dirt/Mud/Grass	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134379.107 E 2393372.552	TBD	1/8/13	1/11/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS / Remarks
																281			SAND; gray to dark gray; fine grained; subangular; loose; moist
																282			
																283			
																284			
																285			
																286			
																287			
																288			
																289			
																290			Moist to wet
																291			
																292			
																293			
																294			
																295			Saturated
																296			
																297			297-298' Geotechnical Lab results indicate material is a dark grayish brown, poorly graded sand with silt (91% Sand, 6.4% Silt, 2.6% Clay)
																298			
																299			
CB	17	20	20	--	--	--	100									300			

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LOG OF BORING

Well/Boring No. SWP001

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood	**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Dirt/Mud/Grass	**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134379.107 E 2393372.552	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/8/13 — **END DATE** 1/11/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P — **DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								301			SAND; gray to dark gray; fine grained; subangular; loose; moist to wet	
								302				
								303				
								304				
								305				
								306				
								307				
								308				
								309				
								310				
								311				
								312				
								313				
								314				
								315				
								316				
								317				
								318				
								319				
								320				Terminate Boring at 320 feet bgs

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LOG OF BORING

Well/Boring No. SWP002

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Mud/dirt		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134091.684 E 2394057.757	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/12/13	**END DATE** 1/15/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															0			Posthole to 5 feet to clear utilities	
															1				
															2				
															3				
															4				
								CB	1	5	5	--	--	--	5			Silty CLAY; mottled orange gray and tan; soft to moderate stiff; medium plasticity; moist with some black organic material	
															6			Grading to tan, dark orange, gray mottled; with some sand; no odor	Some residual creosote staining (6.3')
															7				
															8				
															9	0.0			
								CB	2	20	20	--	--	--	10			CLAY; dark orange with some red; stiff; medium plasticity; moist	
															11	1.4			
															12				Creosote staining Staining (12 - 25')
															13				
															14				
															15				
															16				
															17				
															18	2.1			Heavy staining (18-19')
															19				
															20				

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LOG OF BORING

Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134091.684 E 2394057.757	TBD	1/12/13	1/15/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								20			CLAY; dark orange with some red; stiff; medium plasticity; moist	
								21				
								22	1.7			
								23				
								24				Heavy staining (24-26')
								25				
								26				
								27				
								28				
								29	1.7		Grading greenish gray	No staining below 29'
CB	3	20	20	--	--	--	100	30			With some shell fragments	
								31				
								32				
								33	0.8			
								34				
								35				
								36				
								37	3.4			
								38				
								39				
								40				

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Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
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PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134091.684 E 2394057.757	TBD	1/12/13	1/15/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																40			Clayey SAND; green to dark green; medium grained; subangular; moderately dense; with abundant shells	
																41	2.6			
																42				
																43				
																44				
																45			With abundant dark green - glauconite	
																46	0.7			
																47				
																48				
																49				
								CB	4	20	20	--	--	--	100	50				
																51				
																52				
																53	0.1			
																54				
																55			Grading wet	
																56				
																57	0.3			
																58				
																59				
																60				

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LOG OF BORING

Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
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PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134091.684 E 2394057.757	TBD	1/12/13	1/15/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															60			Clayey SAND; green to dark green; medium grained; subangular; moderately dense; wet with abundant shells and green glauconite	
															61				
															62				
															63	0.3			
															64				
															65				
															66				
															67			Saturated	
															68	1.1		Sandy CLAY; dark brown; stiff to moderately stiff; moist with lignite	
															69				
								CB	5	20	20	--	--	--	70			CLAY; dark brown; hard to stiff; medium plasticity; moist	
															71	4.5			
															72				
															73				
															74				
															75				
															76	0.4			
															77				
															78				
															79				
															80				

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LOG OF BORING

Well/Boring No. SWP002

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Mud/dirt		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134091.684 E 2394057.757	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/12/13	**END DATE** 1/15/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
								80			CLAY; dark brown; stiff; medium plasticity with some pockets of gray silt and trace pyrite and lignite	
								81				
								82				
								83				
								84	0.7			
								85				
								86				
								87	1.0			
								88				
								89				
CB	6	20	20	--	--	--	100	90				
								91	0.1			
								92				
								93				
								94				
								95			With some variegated layers of black organics	
								96				
								97				
								98				
								99	0.0			
								100				

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Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
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PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
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DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
																101			CLAY; dark brown; stiff; medium plasticity with some pockets of gray silt and trace pyrite and some variegated layers of black organics (lignite)	
																102	1.4			
																103				
																104				
																105				
																106			1-inch silt lens	
																107			2-inch silt lens	
																108	3.8			
																109				
CB	7	20	20	--	--	--	100									110			Silty CLAY; dark brown; soft to medium stiff; medium plasticity; moist with some organics	
																111	1.2			
																112				
																113				
																114				
																115				
																116				
																117				
																118			Organic rich zone (118-119')	117.5-118' Geotechnical Lab results indicate material is a very dark grayish brown silty sand (61.2% Sand, 22.9% Silt, 15.9% Clay)
																119	3.4			
																120				

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Well/Boring No. SWP002

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Mud/dirt		**TOTAL DEPTH (FEET BGS)** 320
COORDINATES N 1134091.684 E 2394057.757	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 1/12/13	**END DATE** 1/15/13
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** Rotosonic	**DRILL RIG DESIGNATION** Sonic SDC500-28P	**DRILLER** Anwar Hall
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															121			Clayey SAND; dark brown; fine grained; loose; wet with lignite
															122			Silty CLAY; stiff; medium plasticity; with abundant lignite
															123			Clayey SAND; dark brown; fine grained; loose; wet with lignite
															124			Silty CLAY; stiff; medium plasticity; with abundant lignite
															125	3.3		
															126			
															127			Sandy CLAY; brown; fine grained; loose; moist
															128	0.9		
															129			
															130			CLAY; stiff to hard; medium plasticity; moist with some sand
CB	8	20	20	--	--	--	100								131	1.1		Silty CLAY; dark brown to dark gray; medium stiff to hard; moist with black organics and some sand
															132			CLAY; stiff to hard; medium plasticity; moist; lignite lens @131.25
															133			With some variegated black and trace gray sand lenses throughout
															134			
															135			
															136			
															137			
															138			
															139			
															140	1.1		

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Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
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DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																141	1.1		CLAY; stiff to hard; medium plasticity; moist; lignite lens @131.25	
																142				
																143				
																144				
																145			With bands of gray sand and black lignite	
																146				
																147				
																148				
																149	8.0			
								CB	9	20	20	--	--	--	100	150			Silty CLAY; dark brown to dark gray; medium stiff to hard; moist with black organics and some sand	
																151				
																152	0.8			
																153				
																154				
																155				
																156				
																157				
																158	4.3			
																159				
																160				

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Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS / Remarks
															161	0.2		Silty CLAY; dark brown to dark gray; medium stiff to hard; moist with black organics and some sand
															162			
															163			
															164			
															165			
															166			
															167			
															168			
															169	0.7		
								CB	10	20	20	--	--	--	170			Silty CLAY to CLAY; with zones of gray sand and some zones of hard dark brown clay
															171			
															172			
															173			
															174	0.1		
															175			
															176			
															177			
															178			
															179	0.2		
															180			

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J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																181			Silty CLAY to CLAY; with zones of gray sand and some zones of hard dark brown clay	
																182				
																183				
																184				
																185				
																186				
																187				
																188				
																189				
								CB	11	10	10	--	--	--	100	190	1.7		CLAY; dark brown; hard; medium plasticity; moist with some lignite and bands of hard, dark brown clay	
																191				
																192				
																193				
																194				
																195				
																196				
																197				
																198				
																199				
								CB	12	20	20	--	--	--	100	200				

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J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															201	2.3		CLAY; dark brown; hard; medium plasticity; moist with some lignite and bands of hard, dark brown clay	
															202				
															203				
															204				
															205			CLAY; brown; stiff to hard; medium plasticity; moist	
															206				
															207	1.0			
															208				
															209			Clayey SAND; gray to greenish gray and brown; fine grained; subangular; loose; wet	
															210			CLAY; brown; stiff to hard; medium plasticity; moist	
															211				
															212	1.3		1-inch sand lenses at 212.25 and 212.75'	
															213				
															214				
															215			Intermittent sand lenses from 215-220'	
															216				
															217				
															218	0.6			
															219				
CB	13	20	20	--	--	--	100								220				

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DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
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INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															221			CLAY; brown; stiff to hard; medium plasticity; expansive; moist	
															222				
															223				
															224	0.8		Clayey SAND; gray to greenish gray and brown; fine grained; subangular; loose; wet	
															225			CLAY; brown; stiff to hard; medium plasticity; moist	
															226			Clayey SAND; gray to greenish gray and brown; fine grained; subangular; loose; wet	
															227			CLAY; brown; stiff to hard; medium plasticity; moist	
															228			Clayey SAND; gray; fine grained; loose; moist	
															229	0.3			
															230				
															231				
															232				
															233	1.6			
															234				
															235				
															236				
															237				
															238				
															239				
CB	14	20	20	--	--	--	100								240	3.8		Clayey SAND; gray; fine grained; loose; moist	

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INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

| SPT SAMPLING | | |

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Well/Boring No. SWP002

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Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
																261			wet	
																262				
																263	0.3			
																264				
																265			Grading gray	
																266			Thin lens of Sandy CLAY	
																267				
																268				
																269				
																270	1.4		Sandy CLAY; brown to gray; hard; moist	
																271	0.8		Clayey SAND; gray; fine grained; loose; moist	
																272			Sandy CLAY; brown; fine grained; loose; moist	
																			Clayey SAND; gray; fine grained; loose; moist	
																273			CLAY; brown to gray; hard	
																274			With some sand lenses	
																275			SAND; loose; moist to wet	
																276			CLAY; brown to gray; hard	
																277	0.3		Clayey SAND; gray; fine grained; loose; moist	
																278				
																279				
CB	16	20	20	--	--	--	100									280			Clayey SAND; gray; fine grained; loose; moist with thin zones of	

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Well/Boring No. SWP002

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PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
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DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING											
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
																281	0.4		lignite and sand lenses	
																282				
																283				
																284				
																285				
																286				
																287	0.2			
																288				
																289				
																290				
																291				
																292				
																293	0.8			
																294				
																295			With abundant organics	
																296	1.5			
																297			Sandy CLAY; brown; fine grained; loose; moist	
																298			SAND; gray; fine grained; loose; moist to wet	
																299				
CB	17	20	20	--	--	--	100									300			SAND; gray; fine grained; loose; moist to wet	

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LOG OF BORING

Well/Boring No. SWP002

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Mud/dirt	320

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134091.684 E 2394057.757	TBD	1/12/13	1/15/13

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	Rotosonic	Sonic SDC500-28P	Anwar Hall

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY

SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)

DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
301				
302				
303				
304				
305				
306				
307				
308				
309				
310			CLAY; gray to dark gray; stiff to hard; non-plastic; moist with some sand	
311				
312				
313			2-inch sand lens	
314			SAND; gray; fine to medium grained; loose; moist to wet	
315				
316				
317			Clayey SAND; gray; fine grained; loose; moist	
318				
319			1-inch organic layer (lignite)	
320			CLAY; stiff; moist with organics	Terminate Boring at 320 feet bgs

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LOG OF BORING

Well/Boring No. SWP004

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood	**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Grass	**TOTAL DEPTH (FEET BGS)** 180
COORDINATES N 1134255.858 E 2392114.053	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 11/6/12 / **END DATE** 11/8/12
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** MiniSonic	**DRILL RIG DESIGNATION** GeoProbe 8140LS / **DRILLER** Billy Moss
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
															0			Sandy CLAY; dark brown; hard; medium plasticity; dry	Posthole to 5-feet to clear utilities
															1				
															2			Clayey SAND; yellowish tan; fine grained; subangular; loose; dry	
															3				
															4				
								CB	1	5	5	--	--	--	5			Silty CLAY; light tan, orange and gray mottled; stiff to hard; non-plastic to low plasticity; dry	
															6				
															7				
															8				
															9				
								CB	2	10	10	--	--	--	10	0.0		CLAY; dark brown; hard; no odor	Light staining from 9.8-10' Saturated with non-mobile creosote from (10-15.5')
															11				
															12				
															13				
															14				
															15	0.0			
															16			Silty CLAY; light tan, orange and gray mottled; stiff to hard; low plasticity; dry; no odor	Staining from (15.5-20')
															17				
															18				
															19				
															20				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
CB	3	10	10	--	--	--	100									20	0.0		Silty CLAY; light tan, orange and gray mottled; stiff to hard; low plasticity; dry with trace of interbeds of sand	20-21' Geotechnical Lab results indicate material is an olive yellow fat clay (4.3% Sand, 26.9% Silt, 68.8% Clay)
																21				Minor residual creosote at 22'
																22				
																23			CLAY; greenish gray with some orange mottling; non-plastic to low plasticity; stiff; dry; no odor	
																24				
																25			With trace fossils	
																26	0.0			
																27				
																28				
																29				
CB	4	10	10	--	--	--	100									30	0.0		With some fossils	Trace staining 30'
																31				
																32				32-33' Geotechnical Lab results indicate material is an olive gray fat clay (6.6% Sand, 36% Silt, 57.4% Clay)
																33				
																34				
																35				
																36				
																37	0.0			
																38			Increasing shell fragments	
																39				
																40				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
CB	5	10	10	--	--	--	100									40	0.0		CLAY; greenish gray with some orange mottling; non-plastic to low plasticity; stiff; dry with subangular shell fragments	
																41				
																42				
																43			Increasing sand; with larger shell fragments	
																44				
																45	0.0		Clayey SAND; dark green; medium grained; subangular; dry with large shell fragments	
																46				
																47				
																48				
																49				
CB	6	10	10	--	--	--	100									50	0.0		Grading dark green to gray; fine to medium grained; medium dense; moist	
																51				
																52				
																53	0.0			
																54			Grading medium grained; with abundant shell fragments	
																55				
																56				
																57				
																58				
																59	0.0			
																60				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING / SOIL or ROCK CORING																
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
CB	7	10	10	--	--	--	100								60			SAND; greenish gray; medium to coarse grained; loose to medium dense; moist with some clay and trace shell fragments	
															61				
															62				
															63	0.1			
															64				
															65			With abundant shell fragments	
															66	0.0			
															67				
															68				68-69' Geotechnical Lab results indicate material is an olive gray silty sand (66.8% Sand, 13.9% Silt, 18.5% Clay)
															69				
CB	8	10	10	--	--	--	100								70	0.0		CLAY; dark brown to brown; stiff; medium to high plasticity; dry to moist with some fossil leafs and wood fragments	
															71				
															72				72-73' Geotechnical Lab results indicate material is a black fat clay (11.4% Sand, 40.2% Silt, 48.4% Clay)
															73				
															74				
															75				
															76				
															77				
															78				
															79				
															80				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
CB	9	10	10	--	--	--	100								80	0.0		Clayey SAND; dark brown to brown; fine to medium grained; medium dense to dense; moist	
															81				
															82				
															83				
															84				
															85			Sandy CLAY; dark brown; medium stiff; medium to high plasticity; dry; no odor	
															86				
															87				
															88				
															89				
CB	10	10	10	--	--	--	100								90			CLAY; dark brown to brown; stiff to hard; high plasticity; moist; no odor	
															91				
															92				
															93				
															94				
															95				
															96				
															97				
															98				
															99				
															100				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT US EPA Region IV	**PROJECT** Southeastern Wood		**PROJECT NO.** 049065
PROJECT LOCATION Canton, MS	**SURFACE CONDITIONS** Grass		**TOTAL DEPTH (FEET BGS)** 180
COORDINATES N 1134255.858 E 2392114.053	**GROUND ELEVATION (FEET MSL)** TBD	**START DATE** 11/6/12	**END DATE** 11/8/12
DRILLING CONTRACTOR Groundwater Protection	**DRILLING METHOD** MiniSonic	**DRILL RIG DESIGNATION** GeoProbe 8140LS	**DRILLER** Billy Moss
INSPECTOR J. Richardson	**CHECKED BY** A. Callaway	**APPROVED BY** R. Dawkins	

SPT SAMPLING: SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SOIL or ROCK CORING: CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
CB	11	10	10	--	--	--	100	101			With some organics	
								102				
								103				
								104				
								105				
								106				
								107				
								108				
								109				
CB	12	10	10	--	--	--	100	110			Laminated; with some silt	
								111			Silty CLAY; brown; high plasticity; laminated; wet	
								112			CLAY; dark brown to brown; stiff to hard; high plasticity; moist with some silt; no odor	
								113			Silty CLAY; brown; high plasticity; laminated; wet	
								114				
								115			CLAY; brown; very stiff; high plasticity; laminated; moist with some silt	
								116				
								117				
								118				
								119				
CB	13	10	10	--	--	--	100	120				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
																121			CLAY; brown; very stiff; high plasticity; laminated; moist with some silt and pockets of pyrite along partings	
																122				
																123				
																124				
																125				
																126				
																127				
																128				
																129				
								CB	14	10	10	--	--	--	100	130			No pyrite; pockets of light gray sand throughout	
																131				
																132				
																133				
																134				
																135				
																136				
																137				
																138				
																139				
								CB	15	10	12	--	--	--	120	140				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING								DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)						
																141			CLAY; brown; very stiff; high plasticity; laminated; moist with some silt and pockets of sand throughout	
																142				
																143				
																144				
																145				
																146				
																147				
																148				
																149				
								CB	16	10	13	--	--	--	130	150				
																151				
																152				
																153				
																154				
																155			With trace wood fragments	
																156				
																157				
																158				
																159				
								CB	17	10	15	--	--	--	150	160				

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LOG OF BORING

Well/Boring No. SWP004

CLIENT	PROJECT	PROJECT NO.
US EPA Region IV	Southeastern Wood	049065

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Canton, MS	Grass	180

COORDINATES	GROUND ELEVATION (FEET MSL)	START DATE	END DATE
N 1134255.858 E 2392114.053	TBD	11/6/12	11/8/12

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Groundwater Protection	MiniSonic	GeoProbe 8140LS	Billy Moss

INSPECTOR	CHECKED BY	APPROVED BY
J. Richardson	A. Callaway	R. Dawkins

SPT SAMPLING								SOIL or ROCK CORING										
SAMPLE TYPE	SAMPLE NUMBER	SET 6 INCHES	2ND 6 INCHES	3RD 6 INCHES	4TH 6 INCHES	N VALUE	SAMPLE RECOVERY	CORE TYPE	CORE NUMBER	RUN LENGTH	RUN RECOVERY	RQD RECOVERY	% RECOVERY	RQD (%)		DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
																161			CLAY; brown; very stiff; high plasticity; laminated; moist with some silt and pockets of sand throughout	
																162				
																163				
																164				
																165				
																166				
																167				
																168				
																169				
								CB	18	10	10	--	--	--	100	170			With pockets of pyrite along partings and some sand	
																171				
																172				
																173				
																174				
																175				
																176				
																177				
																178				
																179				
																180				Terminate Boring at 180 feet bgs

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APPENDIX B

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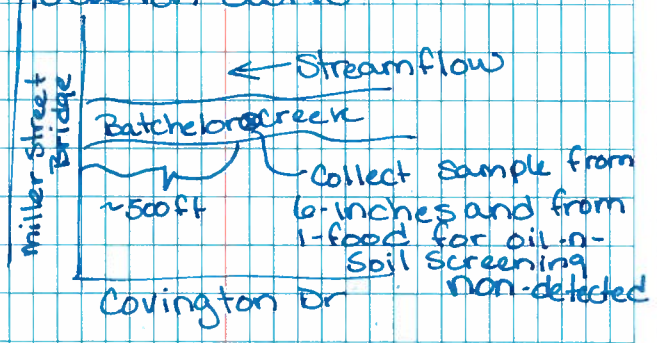
CONTENTS

PAGE NO.	REFERENCE	DATE

Southeastern Wood 10/23/12

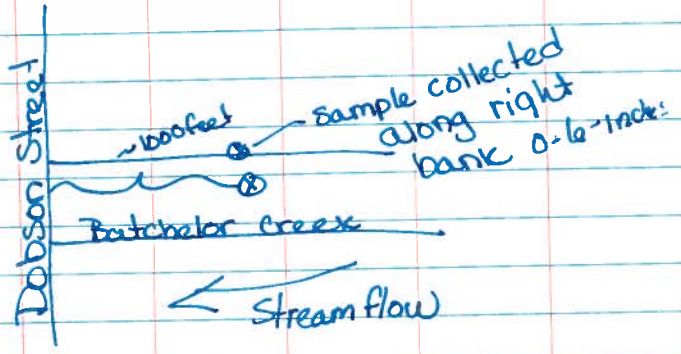
0900 Arrive onsite; Jaime Richardson, Black & Veatch; Kristen Major and Natalie Hooton, Techlaw; Richard Ball, MDEQ already onsite.
Unload and decon equipment:
Calibrate FID # 151623 w/methane 500ppm, Lot # LTD182-MD-CM exp. 04/2015; reading 499.3 ppm.
0945 Health and Safety meeting, route to hospital and traffic safety. Run to Store for Ice & Hot water for field Screening.
1045 at location SWP101



*Collect Sample for SVOC anaysis from 0-6 inches; sample collected above the rock in a sand bar
1115 Break for lunch; go to hardware Store for Shovel

Southeastern Wood 10/23/12

1245 Arrive at SWP102



Attempt to get through ripwrap in Center of Creek, Cannot get through Collect Sample from right bank above rock.

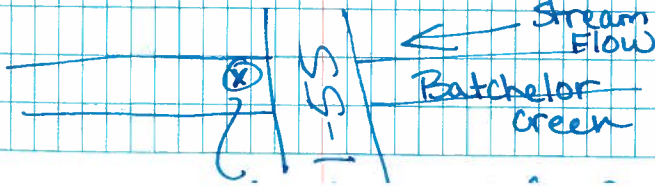
1350 Call Greg mayer to discuss problem with ripwrap and possible solutions. He suggest we continue the sampling effort farther downstream and will discuss the issue with Mike Profit.

1445 Arrive at SWP108; There is approximatly 6-8 feet of water upstream of the culvert under the road at this location.

Southeastern Wood 10/23/12

3/4 of a mile and we Cannot find an access joint to the Creek. Richard Ball discusses using a clam sampler borrowed from MDEQ laboratory to obtain a sediment sample from road, and bailers to retrieve a water sample. I ask him to obtain supplies and will discuss method w/ Mike Profit.

1530 Richard Ball offsite; Sample team receives a call from Gr. mayer to suspend stream activities and focus on residents. Team decides to check access to a couple of stream locations while in the area. Cannot access SWP109 from upstream location; Can access downstream Collect sample SWP109 from downstream location - no riprap



Southeastern wood 10/23/12

Team attempts to walk downstream from SWP109 to SWP110 location, Cannot find an access point; through thick brush and across a steep walled tributary.

1630 recive a call from M. Profit to suspend creek activities and focus on residential sites.

Return to site. Decon & pack up equipment

1715 Offsite to hotel

10/23/12

Southeastern wood 10/24/12

0800 Arrive onsite, J. Richardson, B+V, N. Hoton, K. major Techlaw

Health & Safety - working in yards

0830 Setup at SWP201; 3164 miller Street, talk w/ home owner who warns us against beehive - verify Access

Collect SWP201_0.5 @845

SWP201 -1.0 @855

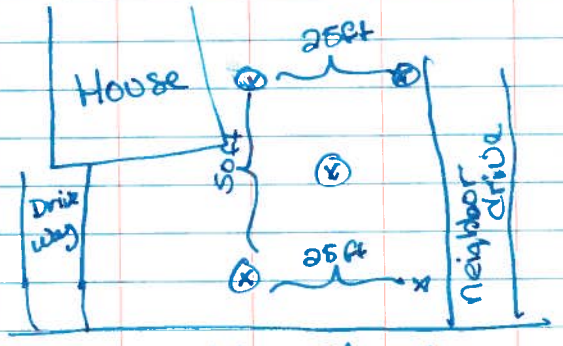
Samples collected for SVOC + Dioxin in shallow interval; SVOC only deeper interval.

Collect duplicate from 0.5-1.ft interval SWP9201_1.0 @855 for SVOC analysis

0910 Begin sampling at SWP220 - speak with home owner to verify access

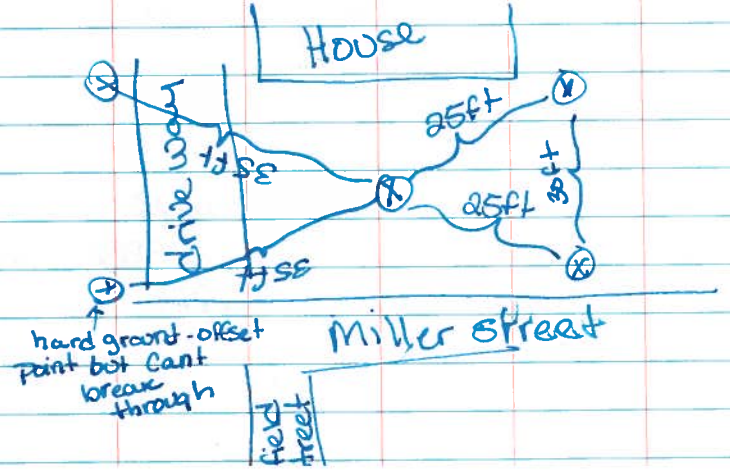
Southeastern Wood 10/24/12

SWP 820 Station ID: 0930-19A-236/00.00



Collect SWP820.0.5 @ 925 -SVOC+dioxin
SWP820_1.0 @ 0930 -SVOC

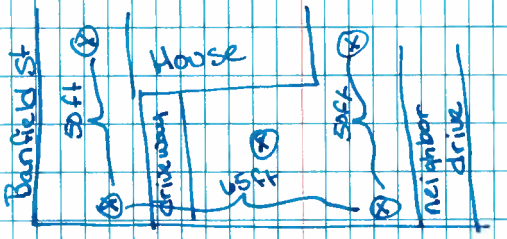
0950 at SWP819 - Homeowner not home



Southeastern Wood 10/24/12

SWP819 Station ID: 0930-19A-239/00.00
* Could not get 0.5-1.0 ft sample from Southeastern corner - Collect 4-point composite for deeper interval
Collect SWP819.0.5 @1000
SWP819.1.0 @ 1010

1035 Setup at SWP817



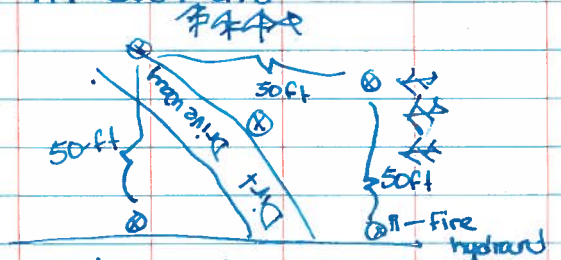
SWP817, Station ID: 0930-19A-219/00.00
Collect 217.0.5 @ 1050
217_1.0 @1055

1040 M. Taylor, USEPA & R. Ball, NCED onsite; Michael wants us to confirm with Shelby Johnston but feels that we could leave H20 & soil from drilling on stockpile and not worry about drumming anything. Talk w/ gentleman at wood chipping operation they have a potable water source we can

R. Ball is concerned about fill in yards, but Michael feels given the age of the material we should continue sampling as planned unless there is something obvious that suggest we take samples from deeper intervals.

1130 onsite to decon

1200 At SWP218

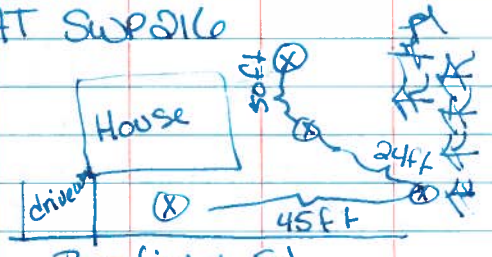


Miller Street

Collect SWP-0.5 @1205

SWP-1.0 @1210 MS/MSD

1225 AT SWP216



Barfield St

Station ID: 0930-19A-187/900

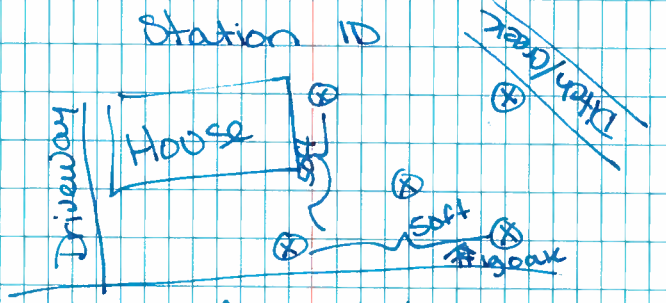
@ SWP216 only 4-point composites collected and not in a grid pattern due to nature/access in yard [See Fig]

Collect SWP216-0.5 @1235 Diox/SVOC

SWP216-1.0 @1240 SVOC

1250 at SWP210

Station ID



Barfield Rd

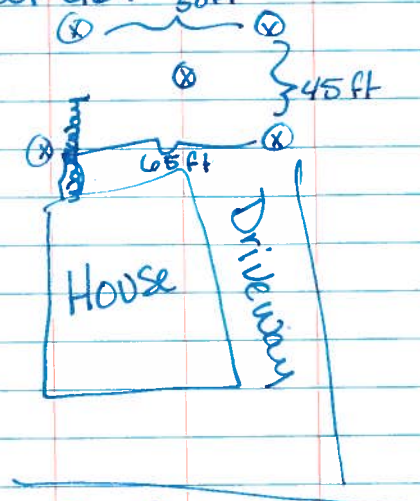
Collect 210-0.5 @1255; collect SVOC & Diox duplicate SWP210-0.5 @1255 SVOC & Diox

Collect 210-1.0 @1300 for SVOC only

1310 Break for lunch

1340 Back onsite at SWP209; relocate proposed point to behind house at 945 Barfield due to presence of thick trees and brush at proposed location

SWP 209

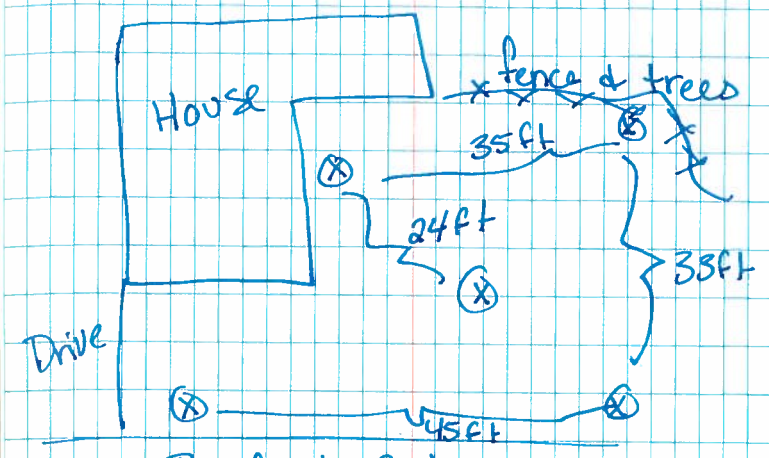


Collect SWP 209. 0.5 @ 1350 SVOC + dioxin
SWP 209. 1.0 @ 1355 SVOC

1415 Return to site to decon
1440 At SWP215
Collect SWP215. 0.5 @ 1455
SWP 215. 1.0 @ 1500 MS/MSD

10/24/12

SWP 215



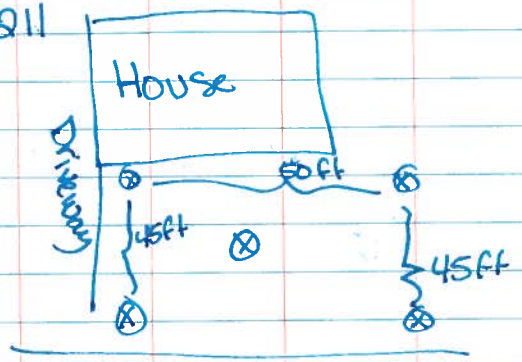
1600 Back onsite to Decon
1630 Offsite to hotel to process and ship SVOC samples

10/24/12

*See page 12 for additional 10/24/12 activities - field book page skipped.

Southeastern Wood 10/24/12

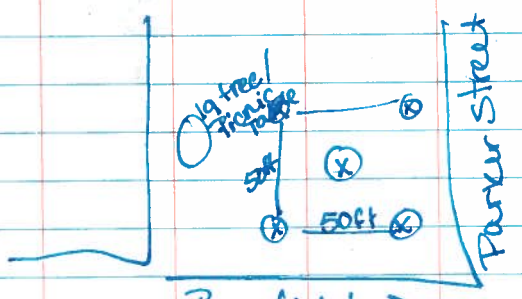
SWP 211



Banfield

Collect SWP 211_0.5 @1530
SWP 211_1.0 @1535

1545 SWP213

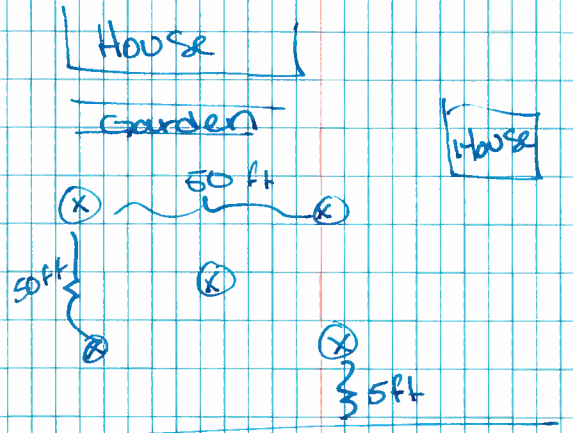


Banfield Dr

1555 Collect SWP213-0.5 @1555
Collect SWP213_1.0@1600

Southeastern Wood 10/25/12

0800 Arrive onsite, J. Richardson, BW N. Hooton, K. Major Techlaw
H&S meeting - Traffic safety / breaks
0820 Arrive at SWP205

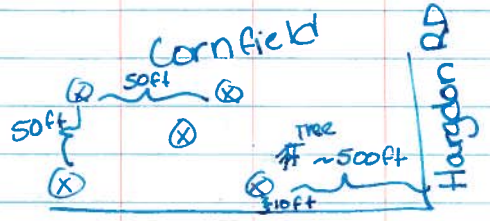


Covington Rd

SWP Site

There appears to be a gravelly fill material at surface; collect samples from below this material from 0.5-1 ft and 1-1.5 feet
0845 collect SWP205-1.0
0850 Collect SWP205-1.5
0950 offsite to coop for work gloves

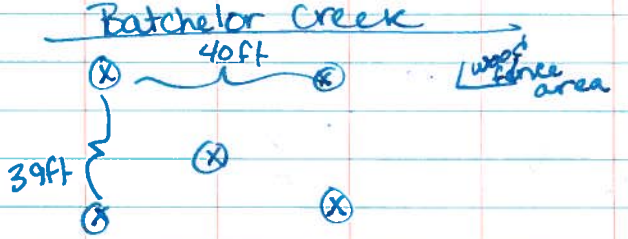
1000 at SWP207



Collect SWP207_0.5 @ 1010
SWP207_1.0 @ 1015

1015 Richard Ball & David Dockery, MDEQ onsite

1050 at SWP224

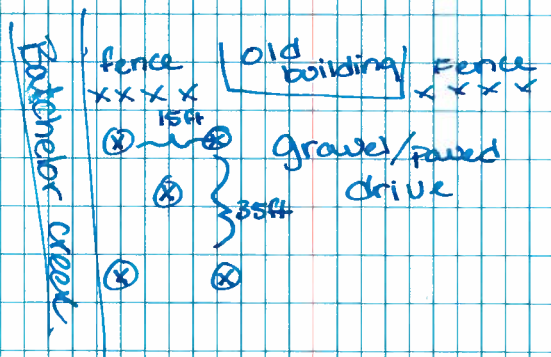


International Paper Truck Park area

Collect SWP224_0.5 @ 1100
SWP224_1.0 @ 1105

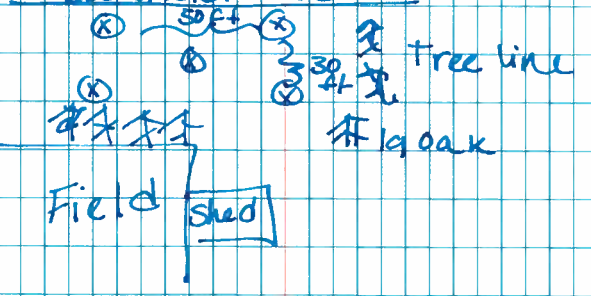
1145 Break for lunch

1330 Decon equipment at SWP223



Collect SWP223_0.5 @ 1405
SWP223_1.0 @ 1410

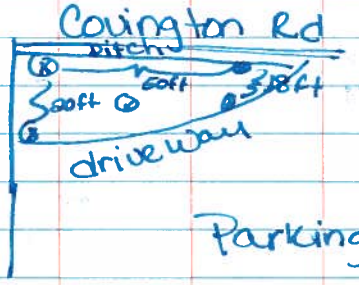
1440 at SWP225



Collect SWP225_0.5 @ 1450
SWP225_1.0 @ 1455

Southeastern Wood 10/25/12

1530 at SWP206



Parking area

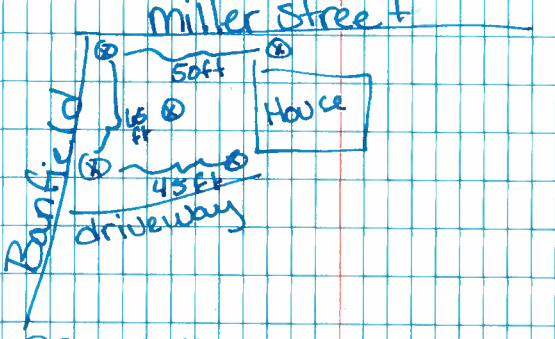
1545 Collect SWP206_0.5
Collect SWP206_1.0

1600 Return to site to Decon
1645 offsite to hotel to process and ship samples

10/25/12

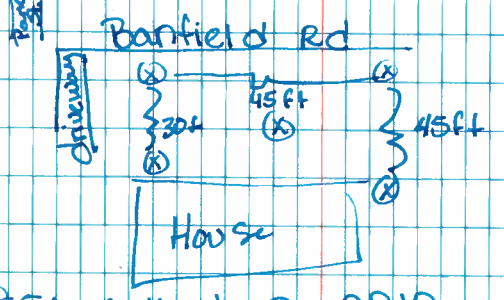
Southeastern Wood 10/26/12 ~~10/27/12~~

0800 Arrive onsite, J. Richardson, BSV
Natalie Hooton, K. Majors Techlaw
Health & Safety Meeting
815 Setup at SWP208



830 Collect SWP208_0.5
835 Collect SWP208_1.0

845 at SWP212

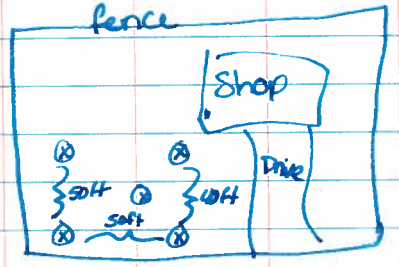


850 Collect SWP212_0.5
Collect SWP212_1.0

Southeastern Wood

10/26/12

0945 at SWP ~~205~~ 204 - Talk to neighbor to get # for owner to open gate

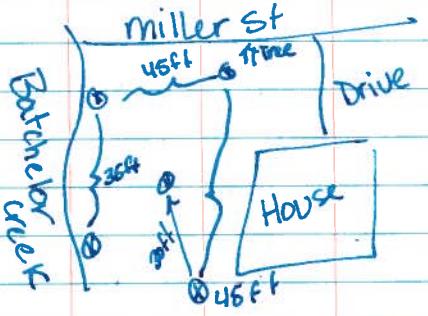


Covington Rd

1000 Collect SWP ~~205_0.5~~ 204_0.5

1005 Collect SWP ~~205_1.0~~ 204_1.0

1120 at SWP 221



1155 Collect SWP221_0.5

1200 Collect SWP221_1.0

Southeastern Wood

10/26/12

At 1000 Collect Equipment blank EB01 - Discover that we do not have enough DI water to fill all containers. Call Suzy Prouty to discuss. It will be ok to ship with less volume.

1130 meet w/ Shelby Johnston, EPA discuss sampling at SWP214, She feels we should collect samples from ditch in front of residence.

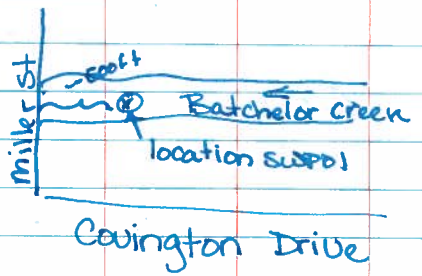
Go w/ Shelby to meet property owner who has agreed to take us to Creek location SWP111.

1300 Access to Creek is not possible. Property owner suggest Sampling from a bridge location farther down stream and gives us directions. Check out locations and sampling is possible but need to discuss Change w/ M. Profit

1430 offsite to hotel to process + Ship Samples

Southeastern Wood 10/27/12

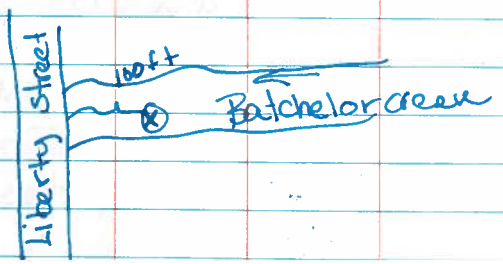
0800 Arrive onsite
H&S meeting
Setup at SWP101



Rip wrap at this location is approximatly 1-ft underneath large rocks is a thin gravel layer before hitting a silty clay: gray with no odor/slight odor (organics)

0930 Collect Sediment Sample SWP101 and Surface water sample SWP101.

0945 mob to SWP103

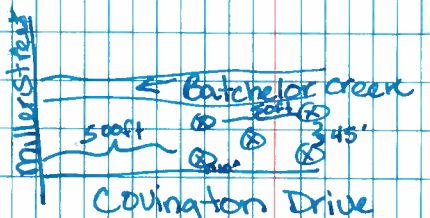


Southeastern Wood 10/27/12

rip wrap is approximatly 2-feet thick when rocks are moved and sediments stirred up an oily sheen appears on water surface. a thin layer of gravel underlies rip wrap; below gravel is a fat gray silty clay

Collect SWP103 @ 1030 and Surface water sample.

Return to site and collect SWP222

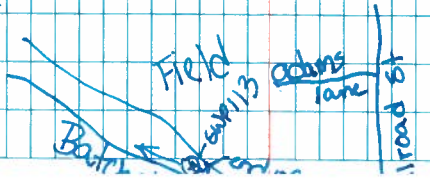


Collect SVOC/Dioxin Sample from 0-0.5 ft - SWP222-0.5 and SWP-1.0 from 0.5-1.0'

Collect MS/MSD Sample for Dioxins from SWP222.0.5 (0-0.5 ft)

1200 find end of rip wrap ~~at the~~ access from field off of adams lane

*GPS coordinates

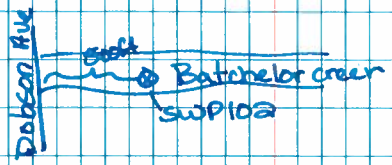


10/27/12

Southeastern Wood

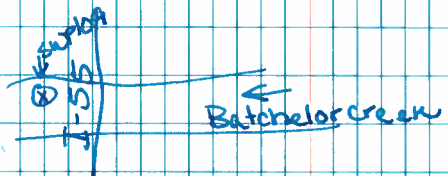
10/28/12

0800 Arrive onsite, Setup at SWP102



Rip wrap at SWP102 is approximately 1½ ft thick underlain by approximately 2-inches of gravel and an orangish gray Clay Collect Sediment and Surface Water Sample at 0950

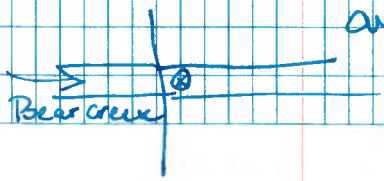
1030 mob to SWP109



Collect SWP109 Sediment and Surface Water @ 1030; Sample Collected from downstream of bridge because of access; no rip wrap

1300 Break for lunch

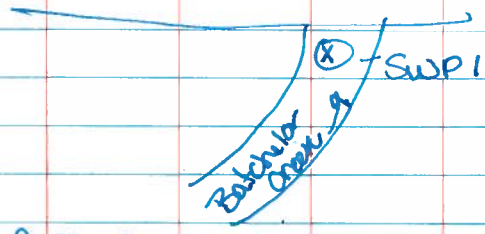
1400 Collect Sample SWP112 Collect Sample from bridge using extended auger and bailer.



Southeastern Wood 10/28/12

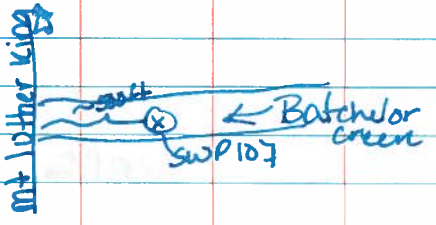
Sample collected from downstream of bridge due to access

@1430 Collect SWP112 surface H_2O and sediment, collect duplicate sediment sample



Collect surface H_2O from bridge using bailer and sediment off of bank using extended auger.

1445 Setup at SWP107



Approximately 3ft of ripwrap underlies this location; underneath ripwrap is a ~1ft thick

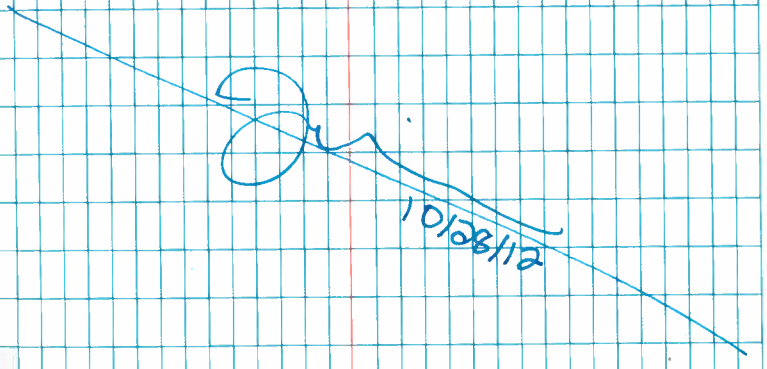
Southeastern Wood 10/28/12

1540 Collect SWP107 sediment and surface water.

1600 attempt to collect samples SWP105 and SWP106. at these locations the H_2O is to deep to wade through waders; at location attempted we encountered a concrete slab that is not penetrable w/ current tools.

1700 mob to SWP104; access to location is possible but it is only ~500' downstream of SWP103. Talk w/ mike Profit concerning necessity of location, agrees we should not attempt a sample.

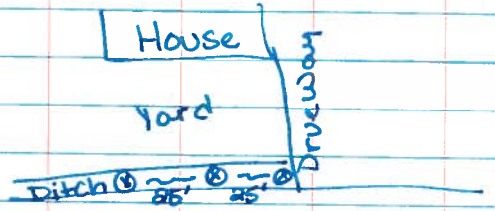
1730 offsite to hotel



Southeastern Wood 10/29/12

0800 Arrive onsite
HS meeting
Decon equipment

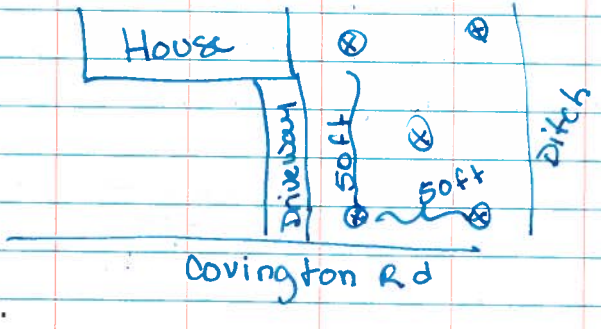
0845 Collect SWP214 in Ditch in front of house; Collect a 3-point Composite



Banfield Rd

Return to SWP216 @ 0900 to Collect a dioxin sample from 0.5 discovered missing jar while processing samples.

0930 setup at SWP202

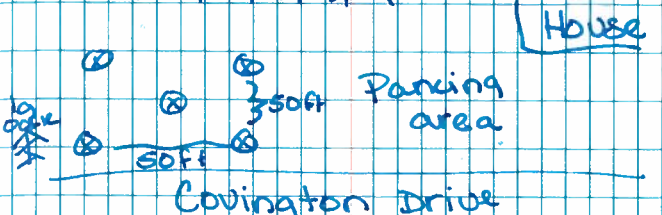


Southeastern Wood 10/29/12

0945 Collect SWP202_0.5 Collect MS/MSD for SVOC samples

0950 Collect SWP202_1.0 collect duplicate SWP9202_1.0

1000 setup at SWP203



1030 Collect SWP203_0.5 Collect duplicate SWP9203_1.0

1045 Collect SWP203_1.0 Collect MS/MSD

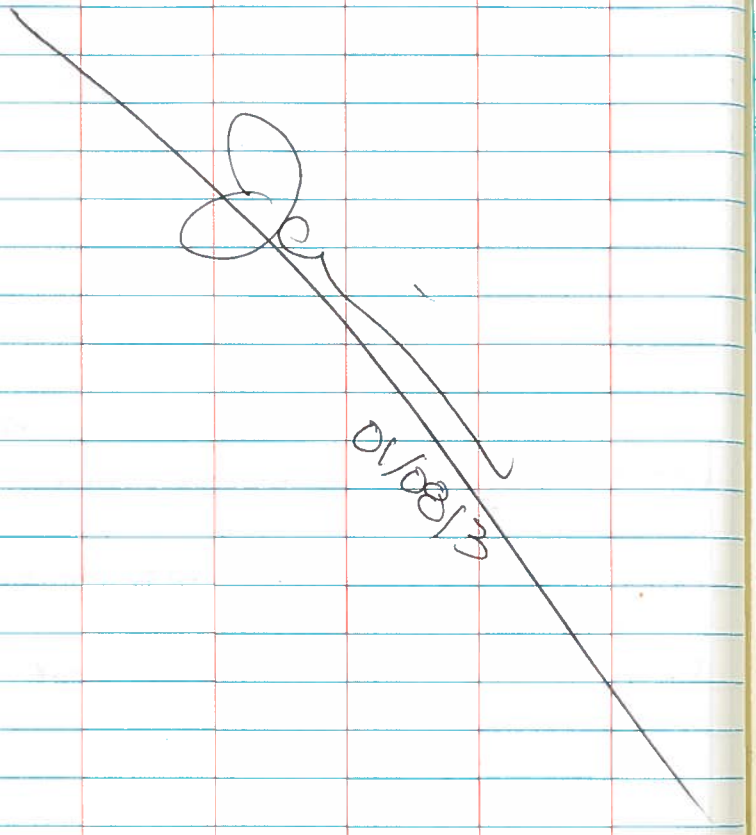
1100 return to site. Decon, clean up and load up

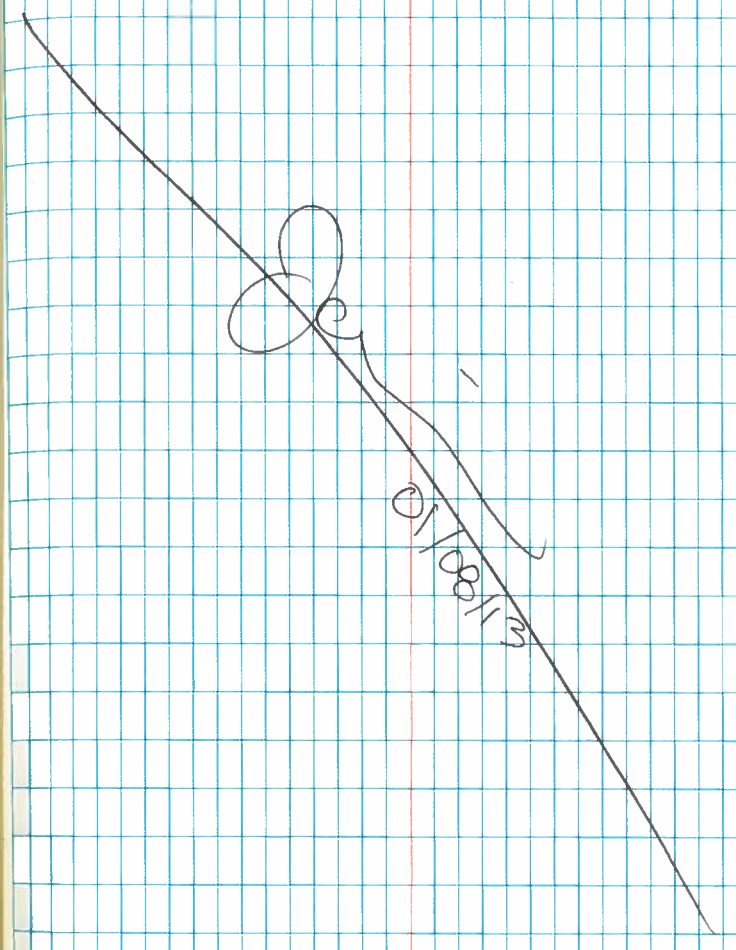
1230 offsite to hotel to process and ship all samples

1730 leave hotel for fedex ship all remaining samples.

10/29/12

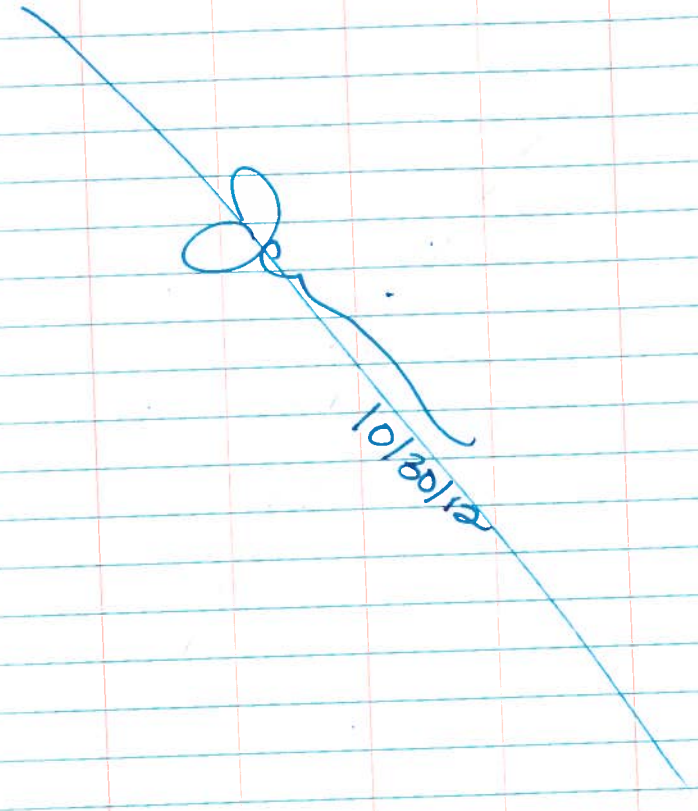
Southeastern Wood 01/08/13
Clear





(28) Southeastern Wood 10/30/12

No site activities, mob back to atlanta



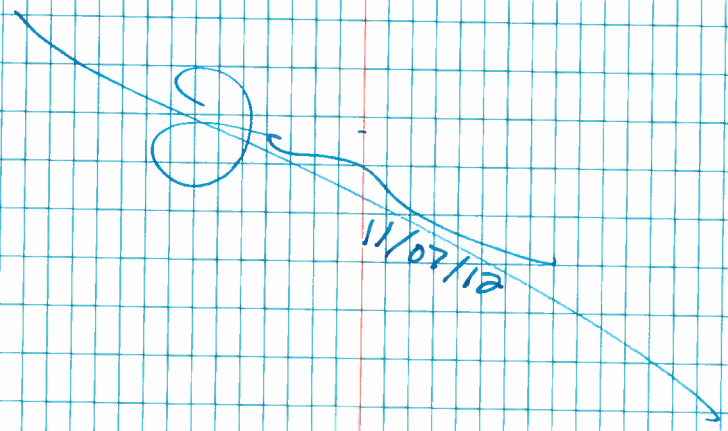
(29) Southeastern Wood 11/06/12

0800 Arrive onsite
J. Richardson, Black & Veatch
N. Hooton, Techlaw
Groundwater Protection
Driller Billy Moss
Helpers: Wade Holcomb
Thomas Watson
Drillers mobbed to area on 11/05/12
Drillers unload and setup at SWP004
Mark out drilling locations
0845 Richard Ball, MDEQ
Michael Taylor, USEPA onsite
1030 Begin setup at SWP004, western portion of site
Health & Safety meeting
Calibrate PID minirae 3000
SN 592-003946; Isobutyl 100 ppm
lot # 0220F012 exp 03/14
0=0, 100=98.8 ppm
microfit FID SN CZEWF312
Hydrogen 99.9% lot JAL 83-7
exp. 9/28/15; methane
500 ppm lot LTH0412 rr-cm exp 8/15
0=0, 500=500.7 ppm

04/12

Southeastern Wood ③ 11/07/12

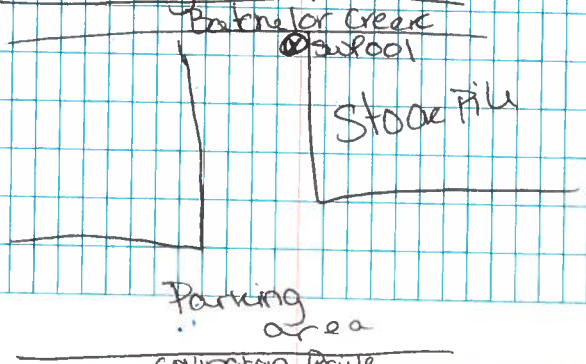
0700 Arrive onsite
HS meeting
0730 continue drilling
0800 Cal Bottler, B&V onsite
1315 break for lunch @ 180 feet
1400 Back onsite, drillers making repairs to their truck; dump IDW & Discuss options
it is decided we will demob from site, abandon hole and return later to drill deeper
1530 Drillers unload supplies from box truck, set up decon and supplies to grout
1700 offsite to hotel



Southeastern Wood 01/08/13

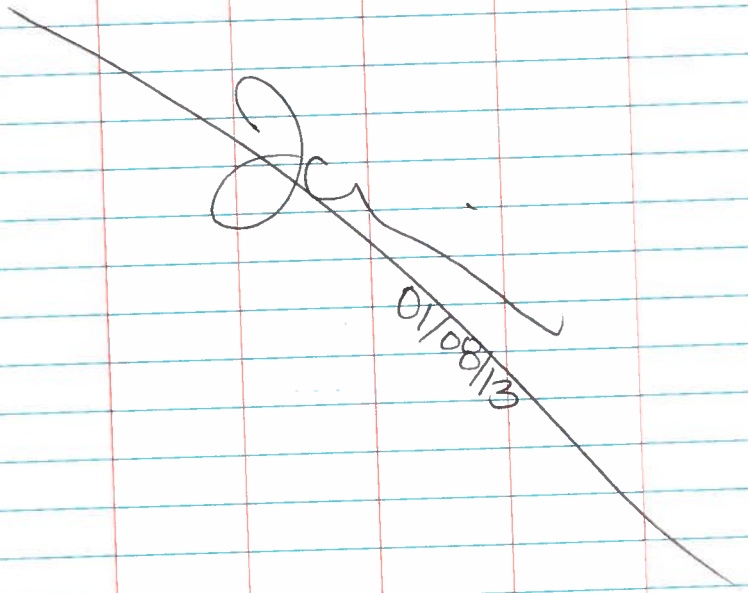
Clear

0730 Arrive onsite
Jaime Richardson, BAV
Natalie Hooton, Techlaw
Receive call, Drillers lost running late
0800 Drillers onsite. Groundwater Protection
Driller: Anwar Hall
Helpers: Eric Hembreno
John Williams
All crews mobbed to area on 01/07/13
Walk site w/ Anwar, he is concerned about being able to get drill rig to second location because of soft wet ground. Agree to start at the alternative location to give ground a few days to dry. Talk w/ Mike Profit who concurs w/ plan will start at SWP001
HS meeting - hospital/site hazards



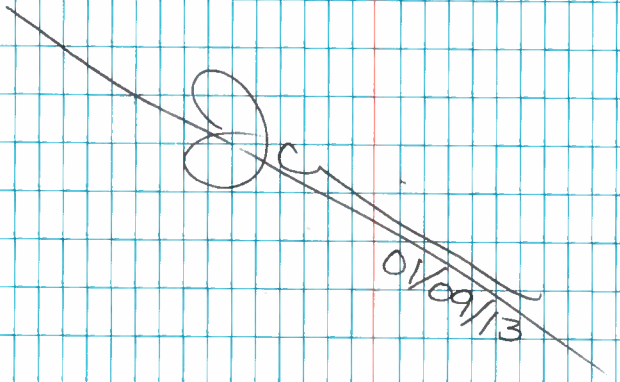
(34) Southeastern Wood 01/08/13

1000 Begin Drilling @ 40ft
1200 Break for Lunch
Set 8' casing to 40 feet before continuing to drill
1700 drill to 110', stop for day - cleanup / secure site drillers fueling rig & getting water
1730 offsite to hotel



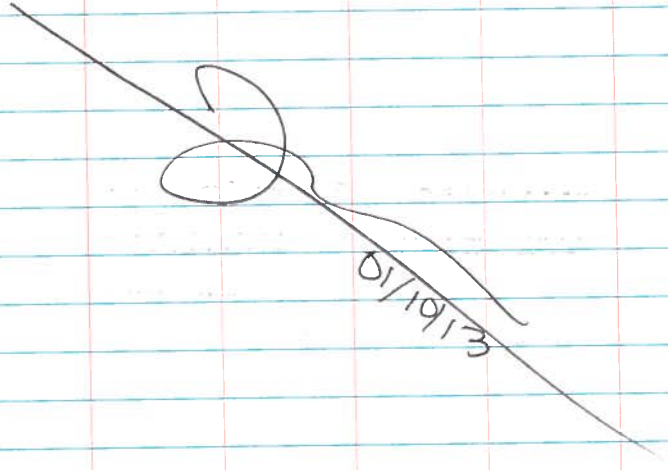
(35) Southeastern Wood 01/09/13

0730 arrive onsite, drillers onsite warming rig
HS meeting
0800 continue drilling
1230 Break for lunch
1300 Drillers back onsite getting H20 - Pulling Bobcat out of mud
0400 continue drilling
1700 drilling Complete for day @ 810 feet
1730 offsite to hotel



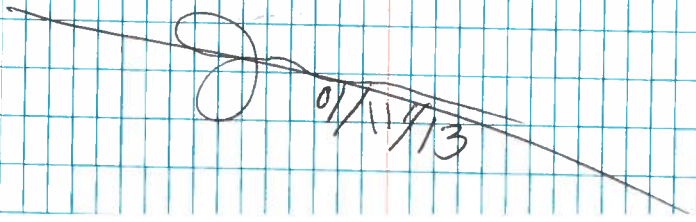
(36) Southeastern Wood 01/10/13

0730 Arrive onsite
Drillers onsite warming Rig
HS Meeting
0800 Continue drilling surface
1100 Heavy rain w/ lightning
Shut down Offsite to Lunch
1230 Back onsite Continue drilling
1700 at 350-feet will set well
from 295-305 ft w/
10-ft Screen
1730 secure Site Offsite to
hotel



(37) Southeastern Wood 01/11/13

0730 arrive onsite
Drillers moving Supplied from
Stockpile to rig. Bocat is
Stuck so having to move
by hand
0830 HS meeting - begin setting
well
1200 Set well - Break for
Lunch to allow bentonite
Chips to hydrate. well set
to 302' Came up during Sanding
10' Screen
1300 Back onsite drillers prep
to grout
1430 grouting Complete, drillers
Pulling Casing - Decon
1600 Activities complete, drillers
loading/Cleanup Preparing
to move to next location
1730 Secure Site offsite to hotel

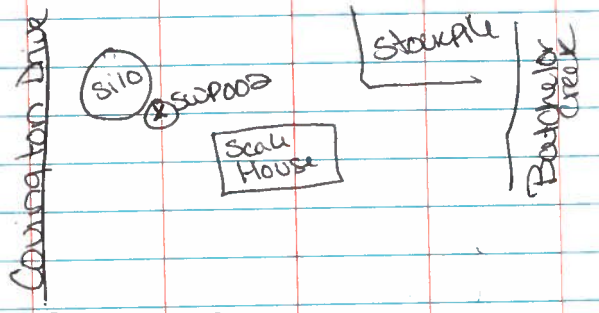


Southeastern Wood 01/18/13

0730 Arrive onsite
Drillers moving soil cuttings. Preping to move rig to SWP002

0900 Drillers augering to clear Utilities - Railroad tie encountered ~4 ft bgs.

1000 Begin drilling SWP002



1200 Break for lunch

1300 Continue drilling

~~1400 Hydraulic hose on rig is broken drillers drillers cleaning up~~

~~1700 Drilling complete for day~~

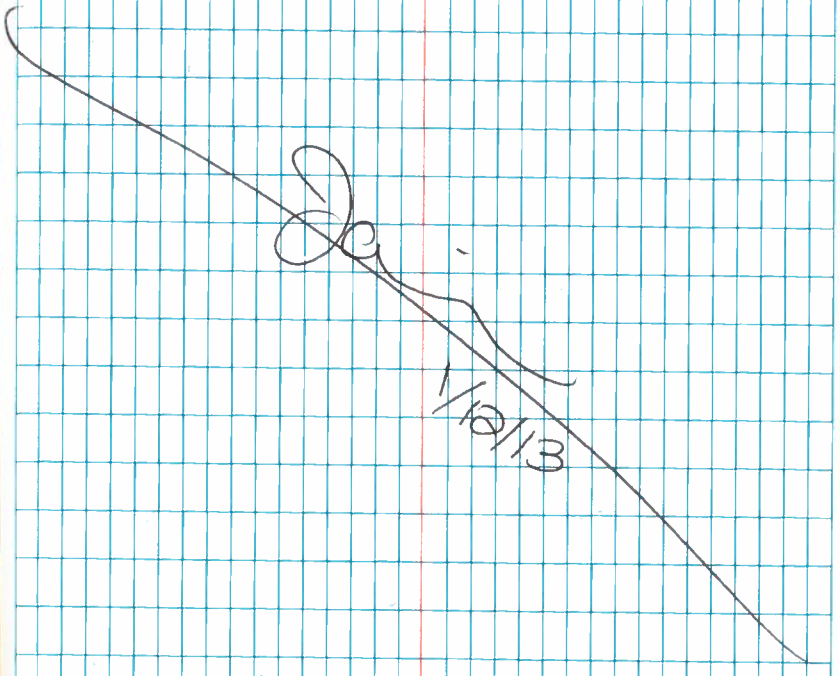
1400 Hydraulic hose broken on drill rig. Drillers cleaning up Spill will have to

Southeastern Wood 01/18/13

for replacement part.

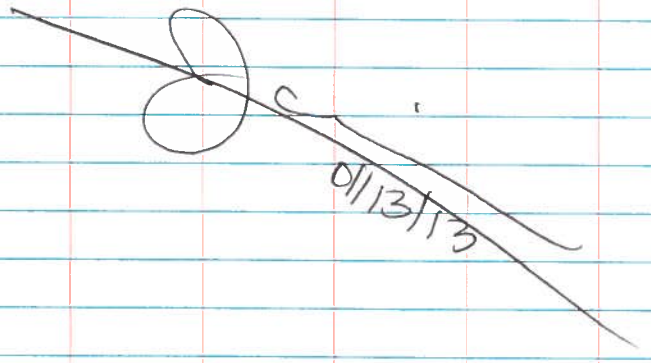
1445 offsite to hotel to process Samples.

1730 receive call from Anwar that they have been unable to obtain part. will regroup in am



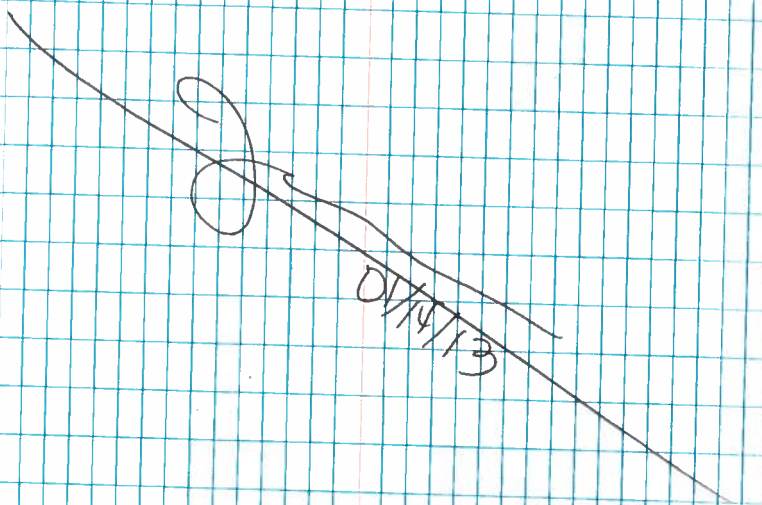
01/13/13 Southeastern Wood

0730 Arrive onsite
Drillers have fixed rig and are ready to continue HS meeting
0800 Continue Drilling
1200 Break for lunch
~~1330~~ Drilling Complete for day @ 80'
@840 Driller Set 60-ft of 8" Casing because boring was Squeezing casing
1400 lightning Shut down
1505 continue drilling
1700 Activities complete for day @ 800'
1730 Offsite to hotel



Southeastern Wood 01/14/13

0730 Arrive on site
Drillers Warming rig
HS meeting
0800 Continue drilling
1100 Break for lunch @ 860'
1300 Driller informs me they cannot drill anymore due to health & Safety Concerns. Heavy Cold rain w/ periodic thunder Storms. Call & leave message for m Profit
1400 Offsite to hotel to Process Samples



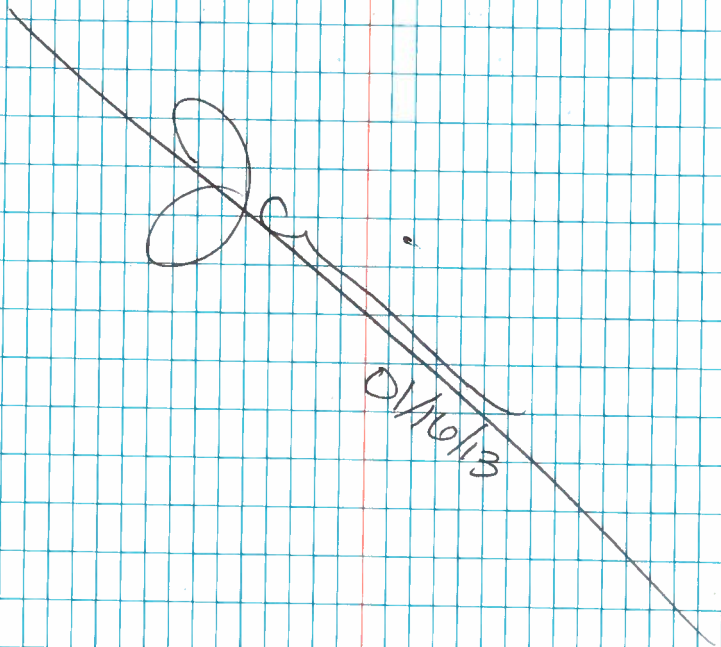
5/13

Southeastern Wood

43

01/16/13

0730 Arrive onsite
Drillers warming rig
HS meeting
0800 Begin mixing grout
1330 grouting complete; drillers pulling rods and decon
1645 activities done
1730 Offsite to hotel

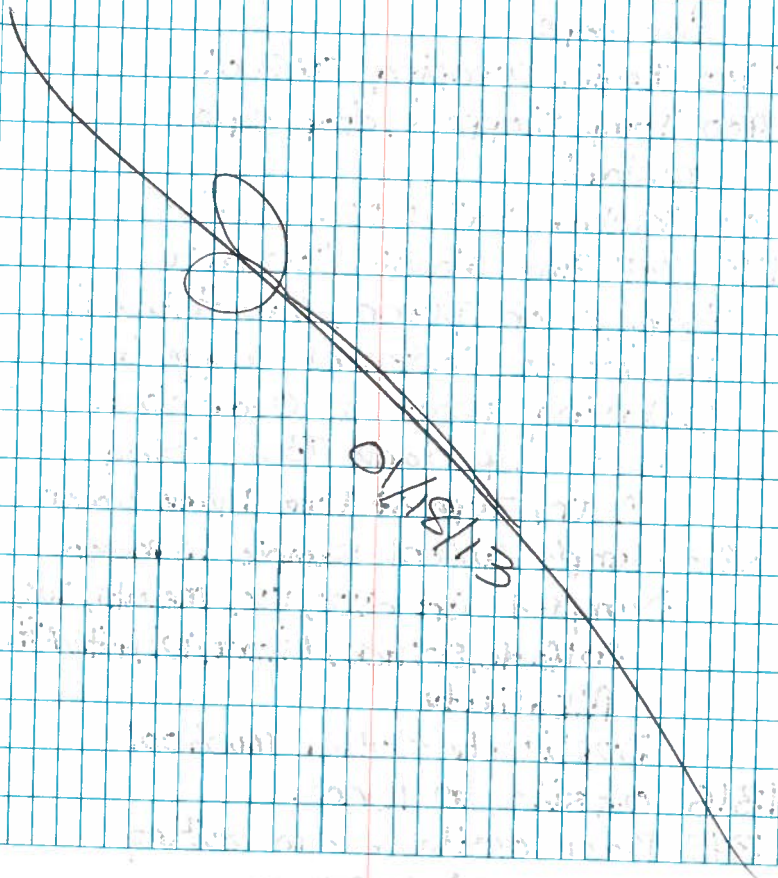


Southeastern Wood 01/18/13

0700 Arrive onsite, take pictures and make sure cleanup was completed.

0800 meet drillers to sign paperwork.

Offsite, mob back to ATL



01/22/13 Southeastern Wood

0745 Arrive onsite
J. Richardson, B&V
Natalie Hooton, Techlaw
HS meeting
Calibrate YSI / lamotte
Setup

0845 run to hardware store for rope

0900 Begin Pumping SWPool

0930 Pump Stopped, drop depth restart

1100 Richar Ball, MDEQ onsite

1115 Call Pine about flowrate changes on pump, they think it is due to sediment suggested reversing pump to clear clog.

1150 Collect Trip blank TB01 Using ASTM Type 2 Pure blank water

1237 Sample SWPool Sample ID MW001
Sampled for: SVOC, VOC, metals, TOC, Sulfate, Sulfide, Nitrate/Nitrite/Nit., Alkalinity
Duplicate Called MW901

1315 offsite to lunch

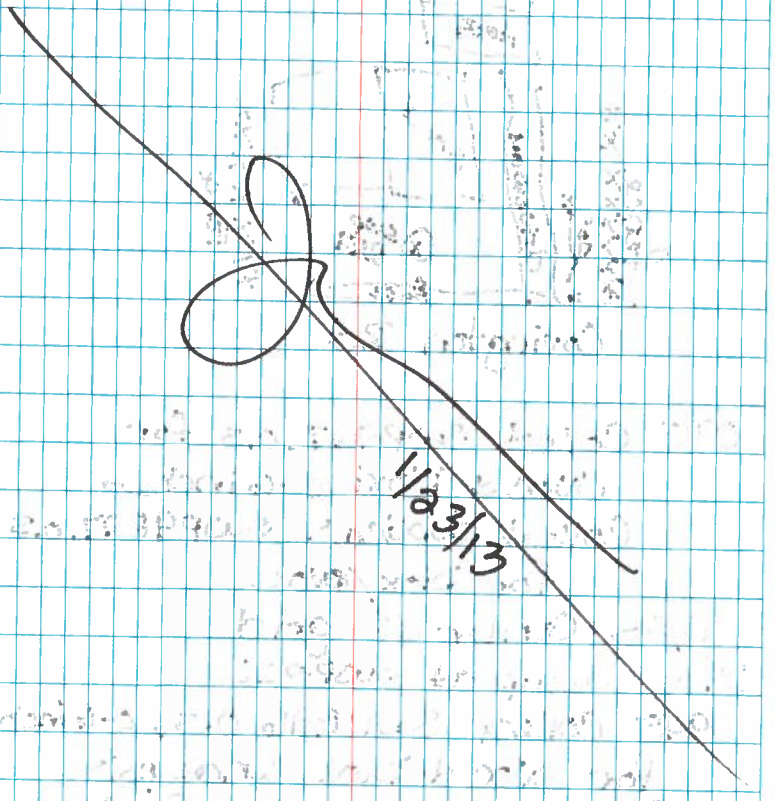
1345 Back onsite, begin setting

Southeastern Wood 1/22/13 1/23/13

1415 Begin Purging SWP003, water Clear and odorless

1604 Sample SWP003 collect MS/MSD See page 46 for analysis.

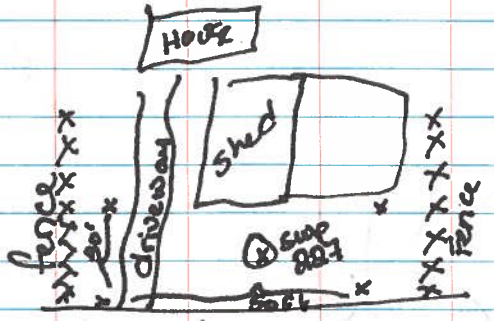
1645 Secure Site: Offsite to hotel to process Samples



Southeastern Wood 01/23/13 01/24/13

0800 Arrive onsite
HS meeting
Decon Soil Sampling Supplies
repaint bollards around SWP008

0900 Begin Sampling SWP027



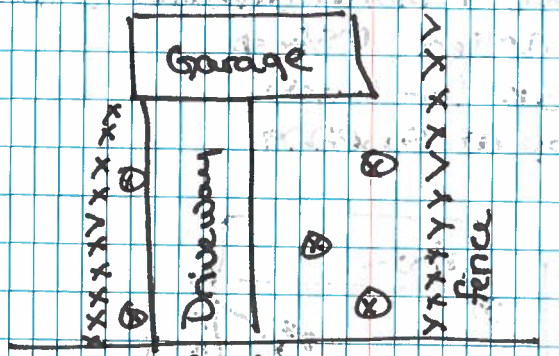
0915 Collect SWP027.0.5 for SVOC & Dioxins-6 inches
Collect duplicate SWP9027.0.5 for Diox/SVOC
GPS Center of grid

0930 Setup at SWP026

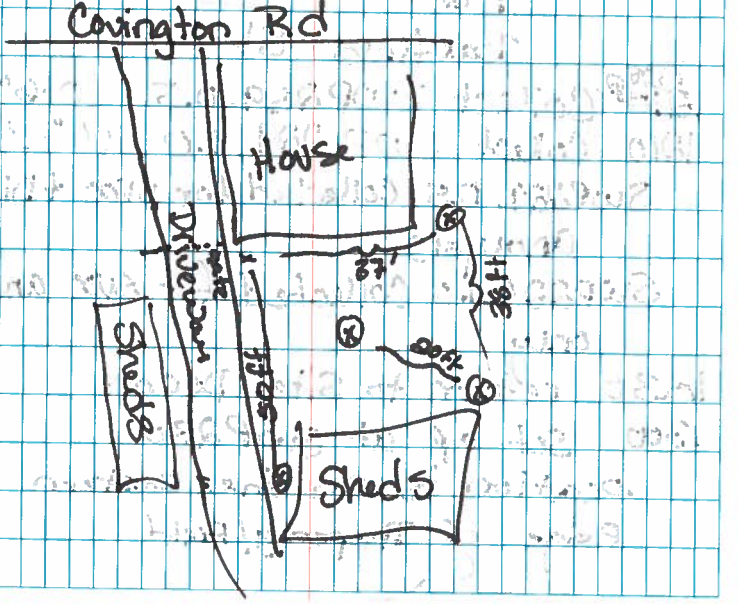
0945 Collect SWP026.0.5, 0-6 inches for SVOC & Diox. analysis
Collect SWP026-1.0 @0950 from 0.6" to 1' bgs

Southeastern Wood 01/23/13

SWP026



SWP028

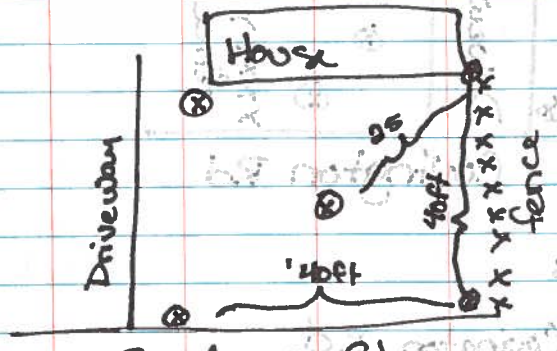


Southeastern Wood 1/23/13

1025 Collect SWP228-0.5 for SVOC + Dioxin analysis 0-6inches Collect MS/MSD

1100 Break for lunch

1150 Setup at SWP229



1210 Collect SWP229-0.5 (0-6")

1210 Collect SWP229-1.0 (6"-1')

SWP229-0.5 Collected for SVOC + Dioxin Analysis

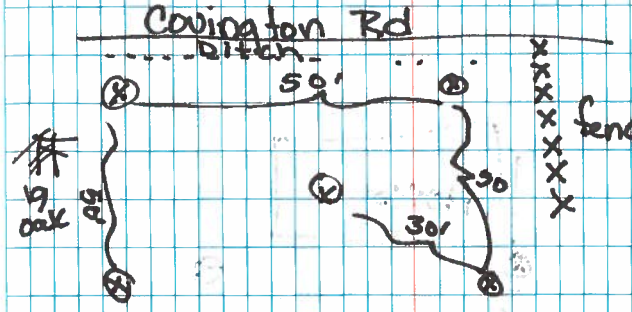
SWP229-1.0 Collected for SVOC analysis only

1230 return to Site. Decon

1300 Set up at SWP230 location is on the eastern edge of Property/Field

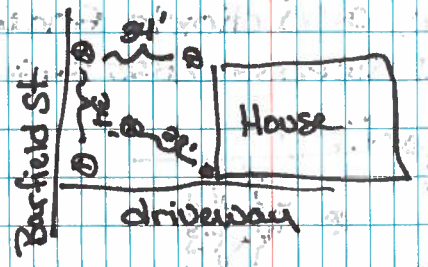
Southeastern Wood 01/23/13

SWP230



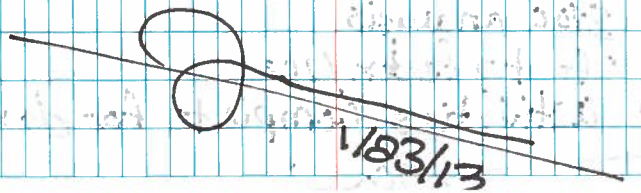
1310 Collect SWP230-0.5 (0-6 inches) for dioxin + SVOC analysis

1320 Setup at SWP231



1330 Collect SWP231-0.5 (0-6") for SVOC + Dioxin analysis

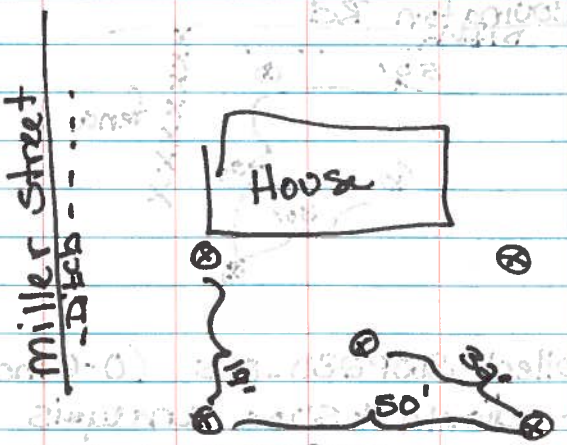
1340 Setup at SWP232



1/23/13

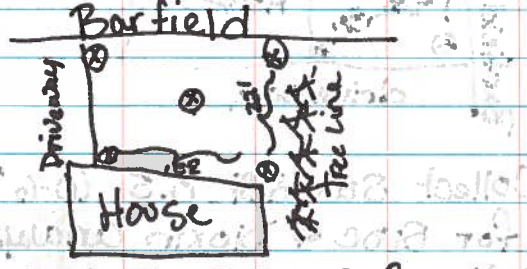
Southeastern Wood 1/23/13

SWP 232



1350 Collect SWP232_0.5 for SVOC and dioxin analysis

1405 setup at SWP233 [525 Barfield]



1415 Collect SWP233:0.5 for dioxin and SVOC analysis

1805 Off to fedex/ice

1840 activities complete for day

Southeastern Wood 1/24/13

0800 Arrive onsite
Decon Sampling equipment
HS meeting

0858 leave messages on Shelby's Office & Cell phones Concerning Property access.

0910 put location info into GPS to find well at International Paper

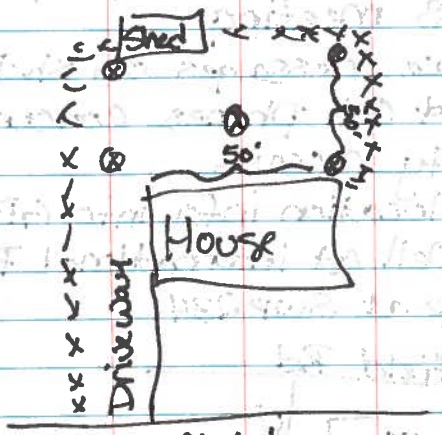
0950 Setup at SWP234

1010 Collect SWP234_0.5 for Dioxin & SVOC analysis

1035 R. Ball has me call Mr Gardner for access. Mr Gardner refused to sign leter. will not sample until receive word from EPA.

Southeastern Wood 1/24/13

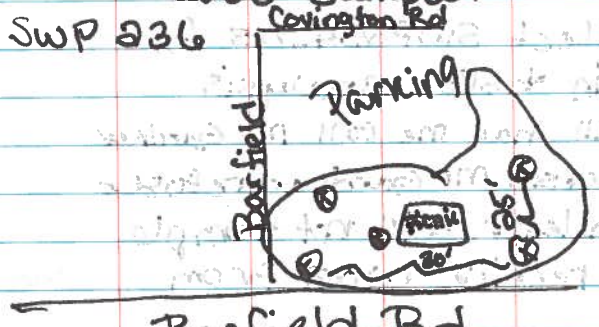
1040 Collect SWP235-0.5 for SVOC & Dioxin



1110 Collect SWP236-0.5 for diox & SVOC Samples

1115 Collect SWP236-1.0 for SVOC Samples

SWP 236



* old Transformer site (2)

Southeastern Wood 01/24/13

1130 Break for lunch

1205 Call Shelby's cell and office get voicemail

1208 Call Kyle Bryant leave voicemail

1215 Call mike Profit concerning Status - out of Sampling locations.

1235 Call Ernie matt Smith regarding geotech Samples.

1245 Decon equipment; begin Cleaning up Site / loadout

1305 Complete cleanup. Receive Call from Shelby Johnston, request we wait onsite while She Checks on access request

1415 Load trash / equipment

1430 receive call from Shelby Johnston no additional access has been obtained will have to end shift

1445 leave Vm for mike Profit. offsite to hotel to process and Ship Soil Samples

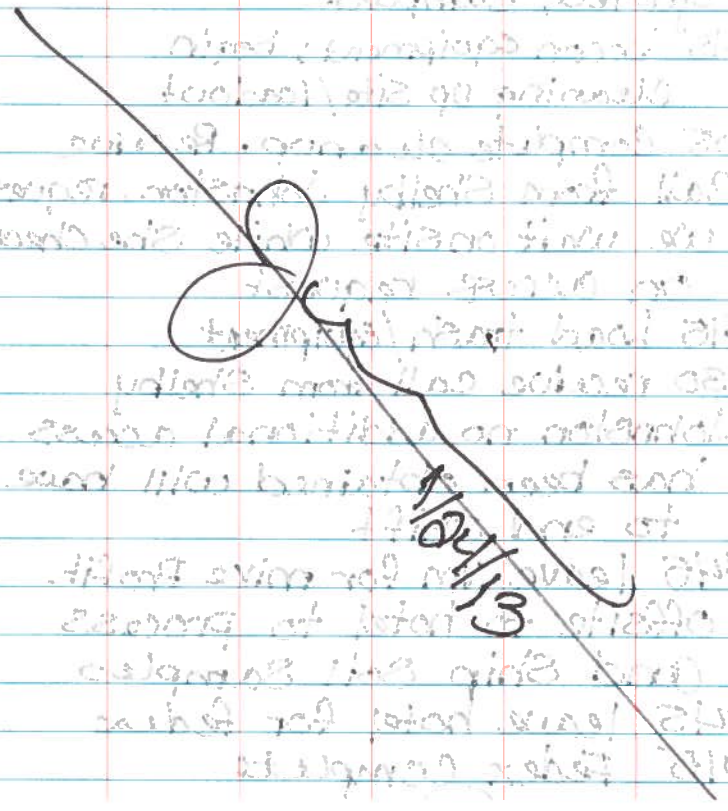
1545 leave hotel for fedex

1615 Fedex Complete

(56)

Southeastern Wood 1/24/13

1730 receive Call from Ernie Mott-Smith Concerning Geotech Samples. Process geotech will mob back to Atlanta on 01/25/13 w/ geotech & Diadn Samples to be Shipped later. All onsite activities Complete.



Well ID: SWPOOL
Sample ID: MW001/MW9001 Duplicate

Groundwater Sample Collection Record

Project Name: Southeastern Wood	Date/Time Start: 01/22/13 930
Project Number: 049065	Date/Time Finish: 1/22/13 1230
Location: Canton, MS	Analysis: See FSP
Weather: Clear, Sunny ~50°	Samplers: J. Richardson/ Natalie Hooten (Techlaw)

1) Water Level Data (from TOC) 33.81
Total Well Depth 300'
Water Column Length 268.19
Water Volume in Well 43.7
TOC height above/below land (approx).

Well Volume per casing diamater

1"	V = 0.041 x h	V Volume of water
2"	V = 0.163 x h	h Height of the water column in the well measured in feet
3"	V = 0.367 x h	
4"	V = 0.653 x h	
5"	V = 1.020 x h	
6"	V = 1.463 x h	

2) Total Purge Volume 131 gallons
Purge Method Geosub pump
Field Testing Equipment YSI 8260V2; lamotte 2020; Solonist H20 (wk)

Primary data collection method (Flow-Through) Down-Hole Other _____

3) Parameters

1230	Time	1030	1045	1100	1130	1145	1200	1215
~~33.714~~	Volume Removed (gal)							
33.74	Depth to Water (ft btoc)	35.19	34.49	33.61	34.96	33.93	33.78	33.74
Clear	Color	Turbid	V. Turbid	Turbid	Cloudy	S. Cloudy	S. Cloudy	Clear
8.61	Turbidity (NTU)	635	3154	1286	39.5	18.6	14.2	11.15
6.51	pH	9.29	7.67	7.03	6.56	6.54	6.53	6.52
0.305	Conductivity (mS/cm)	0.582	0.471	0.390	0.316	0.312	0.309	0.307
0.17	DO (mg/L)*	6.87	0.92	0.37	0.15	0.21	0.18	0.17
19.71	Temperature C°	19.58	19.66	19.76	19.88	19.65	19.72	19.78
-96.0	Reduction Potential (mV)	19.3	33.5	-12.9	-111.2	-94.5	-96.8	-96.9

Filtered? Yes (No)
Sample Turbidity (NTU) 8.61
Sample Time 1237

Other Observations: Collect duplicate
Water is clear and odorless

Ferrous Iron 2.0 mg/L
Total Iron 71.0 mg/L

Well ID: SWPDD2
Sample ID: MWDD2

Groundwater Sample Collection Record

Project Name: Southeastern Wood	Date/Time Start: 01/22/13 1415
Project Number: 049065	Date/Time Finish: 01/22/13
Location: Canton, MS	Analysis: See FSP
Weather: Overcast 50°c	Samplers: J. Richardson / Natalie Hooton (Tech law)

1) Water Level Data (from TOC) 35.26

Total Well Depth 310

Water Column Length 274.74

Water Volume in Well 44.78

TOC height above/below land (approx).

Well Volume per casing diamater

1"	V = 0.041 x h
2"	V = 0.163 x h
3"	V = 0.367 x h
4"	V = 0.653 x h
5"	V = 1.020 x h
6"	V = 1.463 x h

V Volume of water

h Height of the water column in the well measured in feet

2) Total Purge Volume 134.3 gallons

Purge Method Geosub pump

Field Testing Equipment YSI 8260 VO; lamotte 2020, Solinist H2O level

Primary data collection method (Flow-Through) Down-Hole Other _____

3) Parameters

Time	1445 ~~1245~~	1500	1515	1530	1545	1600
Volume Removed (gal)						
Depth to Water (ft btoc)	38.18	37.56	37.19	36.99	36.74	36.64
Color	clear	clear	clear	clear	clear	clear
Turbidity (NTU)	2.18	1.25	1.44	1.91	2.07	4.35
pH	7.98	7.87	7.88	7.88	7.88	7.88
Conductivity ( )	0.581	0.607	0.610	0.610	0.611	0.611
DO (mg/L)*	1.26	0.54	0.40	0.34	0.30	0.26
Temperature C°	19.35	19.00	18.94	19.21	18.81	18.36
Reduction Potential (mV)	11.0	-131.9	-137.3	-130.7	-124.6	-115.8

Filtered? Yes (No)

Sample Turbidity (NTU) 4.35

Sample Time 1604

Other Observations: Collect MS/MSD; water is clear & odorless

Ferrous Iron 0.0 mg/L

Total Iron 0.0 mg/L

FIGURE 5-2
BLACK & VEATCH SPECIAL PROJECTS
WELL DEVELOPMENT LOG

Project Name: Southeastern Wood Project NO. 249065
By J. Richardson Date 01/17/13 CK Date Sheet 1 of

1. Well NO.: SWP001
2. Date of installation: 01/11/13
3. Date of development: 01/17/13
4. Static water level: Before dev. 33.7 24 hours after.
5. Quantity of water loss during drilling: unknown
6. Quantity of standing water in well and annulus before dev: 268.3

Start 10.00 pumping ~4.5 gal/min

7.

					End	
Time	1015	1030	1045	1100	1117	1130
Quantity Removed	67.5	135	202.5	270	337.5	405
Temperature (°C)	18.02	17.83	17.50	17.50	17.40	17.11
pH	6.11	6.52	6.58	6.62	6.61	6.64
Conductivity (mS/cm)	0.389	0.326	0.320	0.322	0.325	0.328
ORP	13	-18	-28	-29	-28	-30
Turbidity NTU	51.7	47.4	36.7	26.9	25.00	14.6
DO	12.02	11.05	3.50	4.02	3.81	3.25

8. Depth of well from top of casing: ~318 feet
9. Screen length: 10 feet
10. Depth to top of sediment: Before dev. unknown After dev.
11. Physical Character of well: 2-inch Stainless w/
12. Well development equipment: monsoon pump
13. Description of Surge Technique, if used: agitated w/ pump
14. Height of well casing above ground surface: ~2 feet
15. Quantity of water removed: 405 gallons of water
16. 1-Pint Water Sample Collected/Photographed:
17. Remarks (include measurement of water clarity): DTW @ 1120 = 33.9

Development conditions 1 Well water is reasonably clear
2 Sediment thickness < 5% of screen length

FIGURE 5-2
BLACK & VEATCH SPECIAL PROJECTS
WELL DEVELOPMENT LOG

Project Name: Southeastern Wood Project NO. ~~017~~ (B) 019065
By J Richardson Date 1/17/13 CK _____ Date _____ Sheet 1 of _____

1. Well NO.: SWP003
2. Date of installation: 1/16/13
3. Date of development: 1/17/13
4. Static water level: Before dev. 25.34 24 hours after. _____
5. Quantity of water loss during drilling: Unknown
6. Quantity of standing water in well and annulus before dev: 274 Lole
   Start pumping @ 1250 4gpm

7. Time	Start 1315	1332	1347	1400	End 1415
Quantity Removed					
Temperature (°C)	17.45	17.27	17.49	17.13	17.07
pH	6.76	6.89	6.85	6.83	6.83
Conductivity (mS/cm)	0.378	0.355	0.347	0.346	0.344
ORP	-49	-47	-45	-45	-49
Turbidity NTU	28.2	22.6	23.9	15.3	18.1
DO	6.08	4.26	11.33	10.61	3.40

8. Depth of well from top of casing: ~~305~~ (B) 313 feet
9. Screen length: 10 - feet
10. Depth to top of sediment: Before dev. Unknown After dev. _____
11. Physical Character of well: 2 inch Stainless Steel
12. Well development equipment: Waterra pump
13. Description of Surge Technique, if used: Manual surge w/ pump
14. Height of well casing above ground surface: ~3 feet
15. Quantity of water removed: _____
16. 1-Pint Water Sample Collected/Photographed:
17. Remarks (include measurement of water clarity) : _____

Development conditions 1 Well water is reasonably clear
2 Sediment thickness < 5% of screen length

APPENDIX C

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Photographic Record – Batchelor Creek Sampling
Phase 1-Remedial Investigation

Client: USEPA Region IV **Site Name:** Southeastern Wood Preserving Site

Project Number: 049065 **Site Location:** Canton, Mississippi

Photo Number:
1

Photographer:
J. Richardson

Date:
October 27, 2012

Comments:
Sample Location: SWP101
Parcel ID: 093D-19A-266/00.00
Sediment and surface water samples collected from near the center of creek, upstream of the Miller St. Bridge. Approximately 1-foot of boulders/riprap and a thin gravel layer were encountered above a gray silty clay. Photo taken looking upstream from the left bank.

Photo Number:
2

Photographer:
J. Richardson

Date:
October 27, 2012

Comments:
Sample Location: SWP101
Parcel ID: 093D-19A-266/00.00

Photo taken looking downstream from the left bank, toward the Miller St. Bridge.

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 3 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP102 Parcel ID:093D-19B-317/00.00 Sediment and surface water samples collected near center of creek, upstream from the Dobson Street Bridge. Photo taken looking upstream from bridge.	
Photo Number: 4 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP102 Parcel ID: 093D-19B-317/00.00 Photo taken looking downstream from the Dobson Street bridge.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 5 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP103 Parcel ID:093D-19B-295/00.00 Sediment and surface water samples collected near center of creek, upstream from the Liberty Street Bridge. Photo taken looking upstream from bridge.	
Photo Number: 6 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP103 Parcel ID: 093D-19B-295/00.00 Oily sheen that appeared on surface of water after moving riprap to collect sample at SWP103.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 7 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP107 Parcel ID: 092F-13D-158/00.00 Sediment and surface water sample collected near center of creek, upstream from the Martin Luther King Drive South Bridge. Photo taken looking downstream from bridge.	
Photo Number: 8 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP107 Parcel ID: 092F-13D-158/00.00 Photo taken looking upstream from the Martin Luther King Drive South bridge.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number:
9

Photographer:
J. Richardson

Date:
October 27, 2012

Comments:
Sample Location: SWP108
Parcel ID: 092A-12-004/01.00 (sampled from road/city right-of-way, parcel is closest to sample point)

Sediment and surface water samples collected near center of creek, upstream from the King Range Road crossing, due to high water samples were collected from the bridge using an extended auger and bailer. Photo taken looking upstream from road crossing.

Photo Number:
10

Photographer:
J. Richardson

Date:
October 27, 2012

Comments:
Sample Location: SWP108
Parcel ID: 092A-12-004/01.00 (sampled from road/city right-of-way, parcel is closest to sample point)

Photo taken looking downstream from King Range Road crossing.

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 11 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP109 Parcel ID: 092A-11-004/01.00 Sediment and surface water ample collected near right bank, downstream from the from the I55 Bridge, Photo taken looking upstream toward the bridge	
Photo Number: 12 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP111 Parcel ID:102H-34-001/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point) Sediment and surface water samples collected near center of Bear Creek, upstream from the Old Yazoo City Road Bridge, due to high water samples were collected from/underneath the bridge using an extended auger and bailer. Photo taken looking upstream from bridge	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 13 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP111 Parcel ID:102H-34-001/00.00(sampled from bridge/city right-of-way, parcel is closest to sample point) Photo taken looking down stream toward the Old Yazoo City Road Bridge.	
Photo Number: 14 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP112 Parcel ID: 092B-01-008/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point) Sediment and surface water samples collected near center of Bear creek, upstream from the Heindle Road Bridge, due to high water samples were collected from the bridge using an extended auger and bailer. Photo taken looking downstream from bridge	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 15 **Photographer:** J. Richardson **Date:** October 28, 2012 **Comments:** Sample Location: SWP112 Parcel ID: 092B-01-008/00.00 (sampled from bridge/city right-of-way, parcel is closest to sample point) Photo taken looking upstream from the Heindle Road Bridge.	
Photo Number: 16 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP113 Parcel ID: 092F-13B-001/01.00 (cross property to access creek, sampled within City of Canton right-of way) Sediment and surface water samples collected near center of creek, downstream from end of the riprap that lines Batchelor Creek through the Town of Canton. Photo taken looking upstream from center of the creek.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 17 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP113 Parcel ID: 092F-13B-001/01.00 (cross property to access creek, sampled within City of Canton right-of way) Photo taken looking downstream from the center of the creek standing near edge of the riprap material.	
Photo Number: 18 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP113 Parcel ID: 092F-13B-001/01.00(cross property to access creek, sampled within City of Canton right-of way) Photo of sediment sample collected from SWP113, the sediment displayed a dark black/gray clayey material and had a strong organic odor.	

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Photographic Record – Residential Soil Sampling

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 1 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP201 Parcel ID: 093D-19A-245/00.00 Five point composite samples collected in a 50x50 ft grid in front yard. Photo taken looking east from Miller Street.	
Photo Number: 2 **Photographer:** J. Richardson **Date:** October 29, 2012 **Comments:** Sample Location: SWP202 Parcel ID: 093D-19A-266/00.00 Five point composite samples collected in a 50x50 ft grid west of office building. Photo taken looking toward southwest from driveway. .	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 3 **Photographer:** J. Richardson **Date:** October 29, 2012 **Comments:** Sample Location: SWP203 Parcel ID: 093D-19A-279/01.00 Composite samples collected in a 50x50 ft grid on far west edge of field/parking area. Photo taken looking southeast from Covington Dr.	
Photo Number: 4 **Photographer:** J. Richardson **Date:** October 26, 2012 **Comments:** Sample Location: SWP204 Parcel ID: 093D-19A-279/02.00 Composite samples collected in a 50x50x40 ft grid near center of yard (grid altered due to vehicles). Photo taken looking toward the southeast from driveway.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 5 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP205 Parcel ID: 093D-20B-235/00.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward southeast from Covington Dr.	
Photo Number: 6 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP206 Parcel ID: 093D-20B-229/00.00 Composite samples collected in a 50x20x18 ft grid, sampler located at center of grid, photo taken looking toward the northwest toward Parker St/Covington Dr.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 7 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP207 Parcel ID: 093D-20B-127/00.00 Composite samples collected a 50x50 ft grid. Photo taken looking toward the northwest toward the intersection of Hargon and Covington Dr	
Photo Number: 8 **Photographer:** J. Richardson **Date:** October 26, 2012 **Comments:** Sample Location: SWP208 Parcel ID: 093D-20B-241/00.00 Composite samples collected in a 50x45 ft grid. Photo taken looking toward the east from Miller St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 9 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP209 Parcel ID: 093D-19A-249/00.00 Composite samples collected in a 50x45x65 ft grid in backyard. Photo taken looking toward the north from driveway.	
Photo Number: 10 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP210 Parcel ID: 093D-19A-250/00.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward the northwest from Barfield St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 11 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP211 Parcel ID: 093D-19A-256/00.00 Composite samples collected in front yard in a 50x45 ft grid. Photo taken looking toward the north from Barfield St.	
Photo Number: 12 **Photographer:** J. Richardson **Date:** October 26, 2012 **Comments:** Sample Location: SWP212 Parcel ID: 093D-20B-227/00.00 Composite samples collected in front yard in a 30x45x45 ft grid.	NO PHOTO TAKEN

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 13 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP213 Parcel ID 093D-20B-240/03.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward the southeast from Barfield St.	
Photo Number: 14 **Photographer:** J. Richardson **Date:** October 29, 2012 **Comments:** Sample Location: SWP214 Parcel ID: 093D-20B-221/00.00 Composite samples collected from 3-points spaced 25 ft apart within the drainage ditch in front of home. Photo taken looking toward the west down Barfield St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 15 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP215 Parcel ID: 093D-19A-212/00.00 Composite samples collected in front yard in a 45x35x33 ft grid. Photo taken looking toward the southwest from Barfield St.	
Photo Number: 16 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP216 Parcel ID: 093D-19A-218/00.00 Composite samples collected in a 50x45 ft grid. Photo taken looking south from Barfield St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 17 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP217 Parcel ID: 093D-19A-219/00.00 Composite samples collected in 65x50 ft grid. Photo taken looking toward the west from Miller St.	
Photo Number: 18 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP218 Parcel ID: 093D-19A-187/01.00 Composite samples collected in a 50x50 ft grid. Photo taken looking southwest from Miller St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 19 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP219 Parcel ID: 093D-19A-239/00.00 Composite samples collected in front yard in a 65x30 ft grid. Photo taken looking toward the east from Miller St.	
Photo Number: 20 **Photographer:** J. Richardson **Date:** October 24, 2012 **Comments:** Sample Location: SWP220 Parcel ID: 093D-19A-236/00.00 Composite samples collected in front yard in a 50x25 ft grid. Photo taken looking toward the east from Miller St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 21 **Photographer:** J. Richardson **Date:** October 26, 2012 **Comments:** Sample Location: SWP221 Parcel ID: 093D-19A-227/00.00 Composite samples collected in front yard in a 45x35x45 ft grid. Photo taken looking toward the east from Miller St.	
Photo Number: 22 **Photographer:** J. Richardson **Date:** October 27, 2012 **Comments:** Sample Location: SWP222 Parcel ID: 093D-19A-266/00.00 Composite samples collected in front yard in a 50x50x45 ft grid. Photo taken looking southwest toward Covington Dr.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 23 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP223 Parcel ID: 093D-19A-229/00.00 Composite samples collected in a 15x35 ft grid. Photo taken looking toward the northeast the Miller St. Bridge.	
Photo Number: 24 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP224 Parcel ID: 093D-19A-224/00.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward the southwest from the parking area.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 25 **Photographer:** J. Richardson **Date:** October 25, 2012 **Comments:** Sample Location: SWP225 Parcel ID: 093D-19A-222/02.00 Composite samples collected in a 50x30 ft grid. Photo taken looking toward the east (Batchelor Creek on the right side of photo)	
Photo Number: 26 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP226 Parcel ID: 093D-19A-263/00.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward the southwest from Convington Dr.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 27 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP227 Parcel ID: 093D-19A-262/00.00 Composite samples collected in a 50x50 ft grid. Photo taken looking toward the southeast from Convington Dr.	
Photo Number: 28 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP228 Parcel ID: 093D-20B-236/00.00 Composite samples collected in a 37x37 ft grid. Photo taken looking toward the west from driveway.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 29 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP229 Parcel ID: 093D-20B-226/00.00 Composite samples collected in a 40x40 ft grid. Photo taken looking toward the north from Barfield St.	
Photo Number: 30 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP230 Parcel ID: 093D-19A-265/02.00 Composite samples collected in a 50x50 ft grid. Photo taken looking north toward Covington Dr.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 31 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP231 Parcel ID: 093D-19A-249/00.00 Composite samples collected in a 34x34 ft grid. Photo taken looking northeast from Barfield St.	
Photo Number: 32 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP232 Parcel ID: 093D-19A-242/00.00 Composite samples collected in a 50x20 ft grid. Photo taken looking west from Miller St.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 33 **Photographer:** J. Richardson **Date:** January 23, 2013 **Comments:** Sample Location: SWP233 Parcel ID: 093D-19A-253/00.00 Composite samples collected in a 32x32 ft grid. Photo taken looking northwest from Barfield St.	
Photo Number: 34 **Photographer:** J. Richardson **Date:** January 24, 2013 **Comments:** Sample Location: SWP234 Parcel ID: 093D-19A-252/00.00 Composite samples collected in a 35x50x40 ft grid behind house. Photo taken looking southwest from driveway.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 35 **Photographer:** J. Richardson **Date:** January 24, 2013 **Comments:** Sample Location: SWP235 Parcel ID: 093D-19A-255/00.00 Composite samples collected in a 50x50 ft grid behind house. Photo taken looking northwest from corner of house.	
Photo Number: 36 **Photographer:** J. Richardson **Date:** January 24, 2013 **Comments:** Sample Location: SWP236 Parcel ID: 093D-20B-228/00.00 Composite samples collected in a 25x30 ft grid. Photo taken looking north west from Barfield St.	

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	1
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: Advancement of the 4 by 6-inch drill string with the Geoprobe 8140LS sonic rig during active coring at SWP04.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	2
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

SOIL CONSISTENCY

FINE GRAINED SOIL (Silts and Clays)		
CONSISTENCY	**SPT - N value** (140 lb. hammer 30-inch drop)	**FIELD TECHNIQUE (Soil core - SPT not needed)**
Very Soft	**<2**	**Easily penetrated several inches by thumb.**
Soft	**2 – 4**	**Easily penetrated one-inch by thumb.**
Medium Stiff	**4 – 8**	**Penetrated over ¼-inch by thumb w/ moderate effort.**
Stiff	**8 – 15**	**Indented about ¼-inch by thumb w/ great effort.**
Very Stiff	**15 – 30**	**Readily indented by thumbnail.**
Hard	**>30**	**Indented with difficulty by thumbnail.**

PLASTICITY

WILL NOT SUPPORT 6mm DIAMETER ROLL IF HELD ON END	► **NON-PLASTIC**
6mm DIA. ROLL CAN BE REPEATEDLY ROLLED AND SUPPORTS ITSELF, 4mm DIA. ROLL DOES NOT	► **LOW PLASTICITY**
4mm DIA. ROLL CAN BE REPEATEDLY ROLLED AND SUPPORTS ITSELF, 2mm DIA. ROLL DOES NOT	► **MEDIUM PLASTICITY**
2mm DIA. ROLL CAN BE REPEATEDLY ROLLED AND SUPPORTS ITSELF	► **HIGH PLASTICITY**

MODIFIER

Trace Represents 1 to 5 percent by volume
Some Represents 5 to 25 percent by volume
Modifier Greater than 25 percent by volume

Title: Geotechnical definitions / techniques utilized to log sonic core at SWSP in November 2012 and January 2013.

Typical of most clay / silty clay, the moisture content is higher in clay/silty clay of soft consistency compared to that of stiff to hard consistency. Most SWP core was stiff.

Plasticity also plays an important role for certain remedial options. A clay of high plasticity generally contains less moisture than a non-plastic (coarser grained) silt. Much of the clay / silty clay from SWP were too stiff to roll into threads, although addition of water would allow competent small diameter rolls indicating a plastic soil. Typically, a plastic soil (e.g., clay) has a low hydraulic conductivity.

The modifiers at the bottom refer to the amount of secondary material in the soil matrix (e.g., silty CLAY with trace sand).

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	3
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 logging techniques. Geologist Cal Butler photologging core. The camera is necessarily held overhead to attain the proper field-of-view for each 5-foot segment of core in the plates from 110 to 180 ft bgs.

The core from 0 to 110 ft bgs was laid out and logged on the ground the day before on plastic sheeting, and is visible to the left of the driller's box truck in the background.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	4a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 0 to 10 ft bgs. The soil along the bottom represents posthole cuttings for the utility clearance from 0 to 5 ft bgs (left to right). The soil along the top represents the first sonic core from 5 to 10 ft bgs (left to right). See paper logs for descriptions. The core from 0 to 110 was advanced and collected on 11/06/12 and laid out / saved on a large plastic sheet staged on the ground near the rig; the photo above and all remaining photos to 110 ft bgs were shot the following day on 11/07/12. Same day photologging of SWP04 begins at 110 ft bgs to the total depth of 180 ft bgs.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	4b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 0 to 10 ft bgs. Same as previous plate under different camera setting. The bottom represents posthole cuttings for the utility clearance from 0 to 5 ft bgs (left to right). The top represents the first sonic core/sleeve from 5 to 10 ft bgs (left to right). See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	5a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 10 to 20 ft bgs. Ten-foot sonic core run with ~10 to 15 ft bgs along the bottom, including black staining without creosote odors. The ~15 to 20 ft bgs core is along the top, with the top of the Yazoo clay beginning at about 17.5 ft bgs. The Yazoo clay above is greenish in color with orange mottling (e.g., weathered). See paper logs for descriptions.

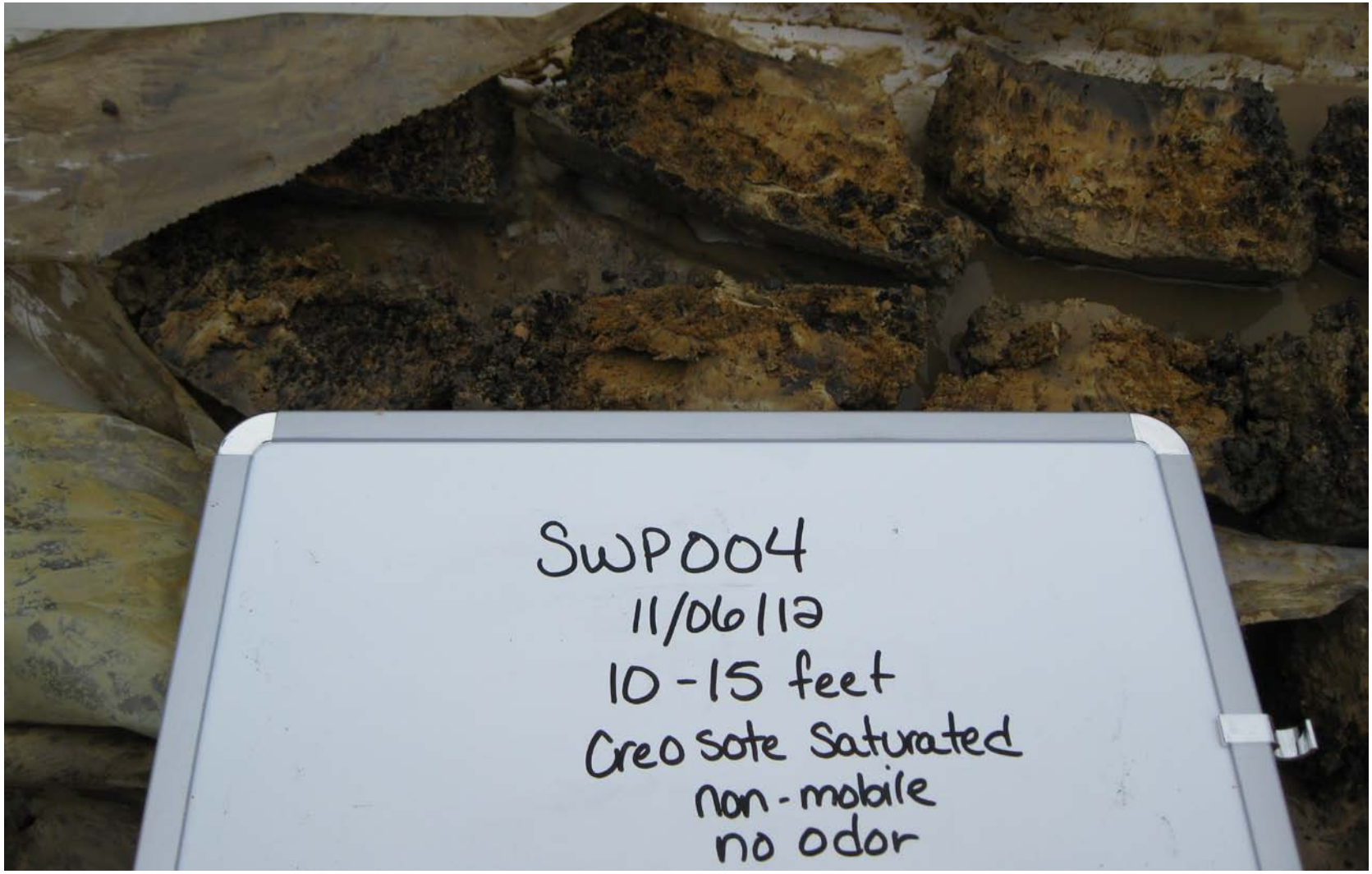
Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	5b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 10 to 20 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run with ~10 to 15 ft bgs along the bottom, including black staining without creosote odors. The ~15 to 20 ft bgs core is along the top, with the top of the Yazoo clay beginning at about 17.5 ft bgs. The Yazoo clay above is greenish in color with orange mottling (e.g., weathered). See paper logs for descriptions.

Photographic Record

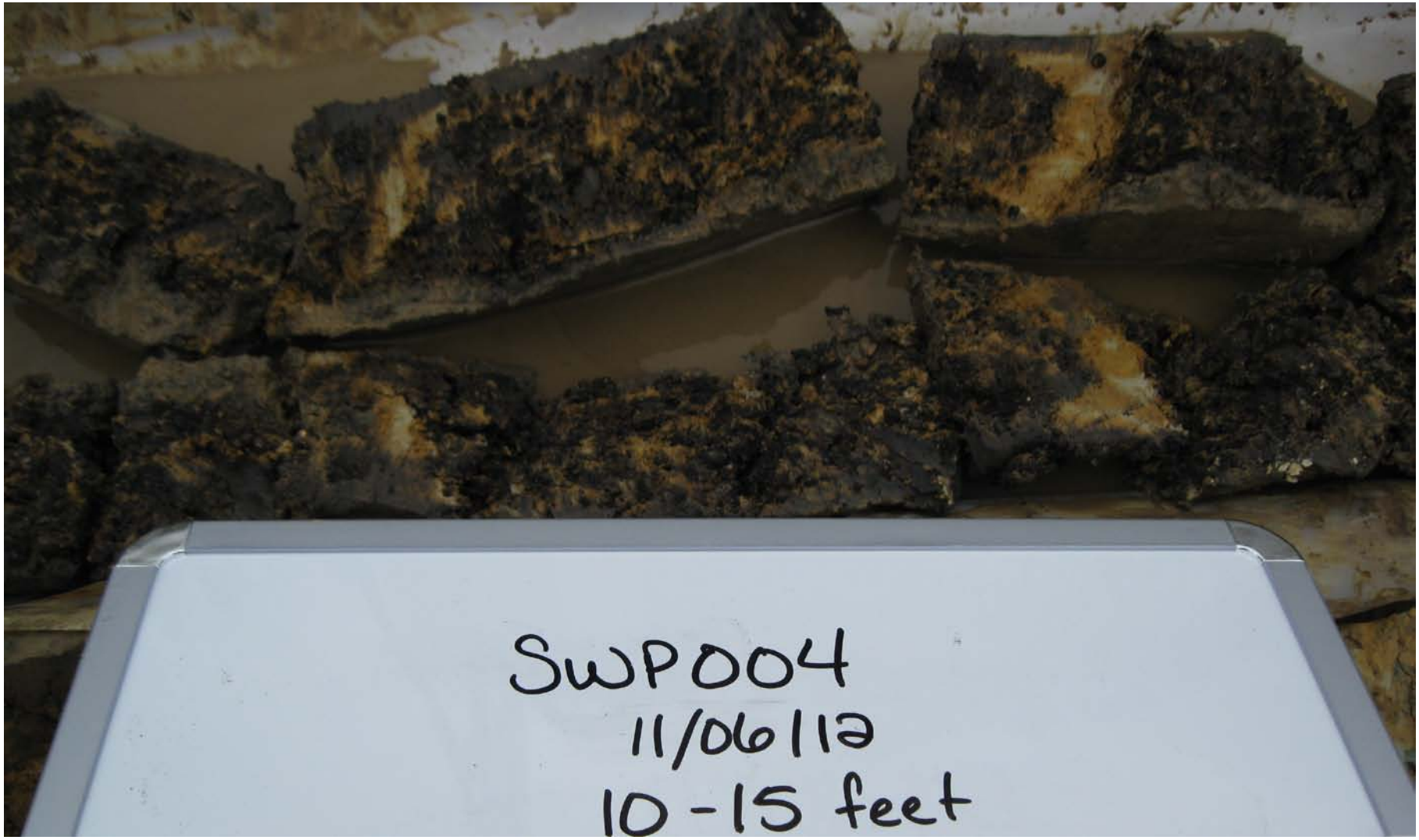
Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	5c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12



Title: SWP04 sonic core from 10 to 20 ft bgs. Closeup of creosote impacted soil in the 10 to 15-foot interval. There was no evidence of odor, and the (weathered) creosote is merely manifest by staining (e.g., non-mobile). See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	5d
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12



Title: SWP04 sonic core from 10 to 20 ft bgs. Same as the previous plate, only closer to the bottom of the 10 to 15-foot interval. The core is more heavily impacted / discolored by creosote and again yielded no evidence of odor, and the (weathered) creosote is merely manifest by staining (e.g., non-mobile). See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	5e
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

Title: SWP04 sonic core from 10 to 20 ft bgs. Same as the previous plate, only in the 15 to 20-foot interval. The mottled Yazoo clay is heavily impacted / discolored by creosote and again yielded no evidence of odor, and the (weathered) creosote is mainly manifest by staining (e.g., non-mobile). See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	6a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 20 to 30 ft bgs. Ten-foot sonic core run, with ~20 to 25 ft bgs along the bottom and ~25 to 30 ft bgs along the top. All core is grayish blue-green Yazoo clay, with orange mottling from 20 to 25 ft bgs. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	6b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 20 to 30 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~20 to 25 ft bgs along the bottom and ~25 to 30 ft bgs along the top. All core is grayish blue-green Yazoo clay, with orange mottling from 20 to 25 ft bgs. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	6c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

YAZOO CLAY: Calcareous clay from deep marine depositional environment.

Title: SWP04 sonic core from 20 to 30 ft bgs. Closeup of the 20 to 24 ft bgs zone displaying the transition from orange mottling to grayish blue-green color in the Yazoo clay. See paper logs for descriptions.

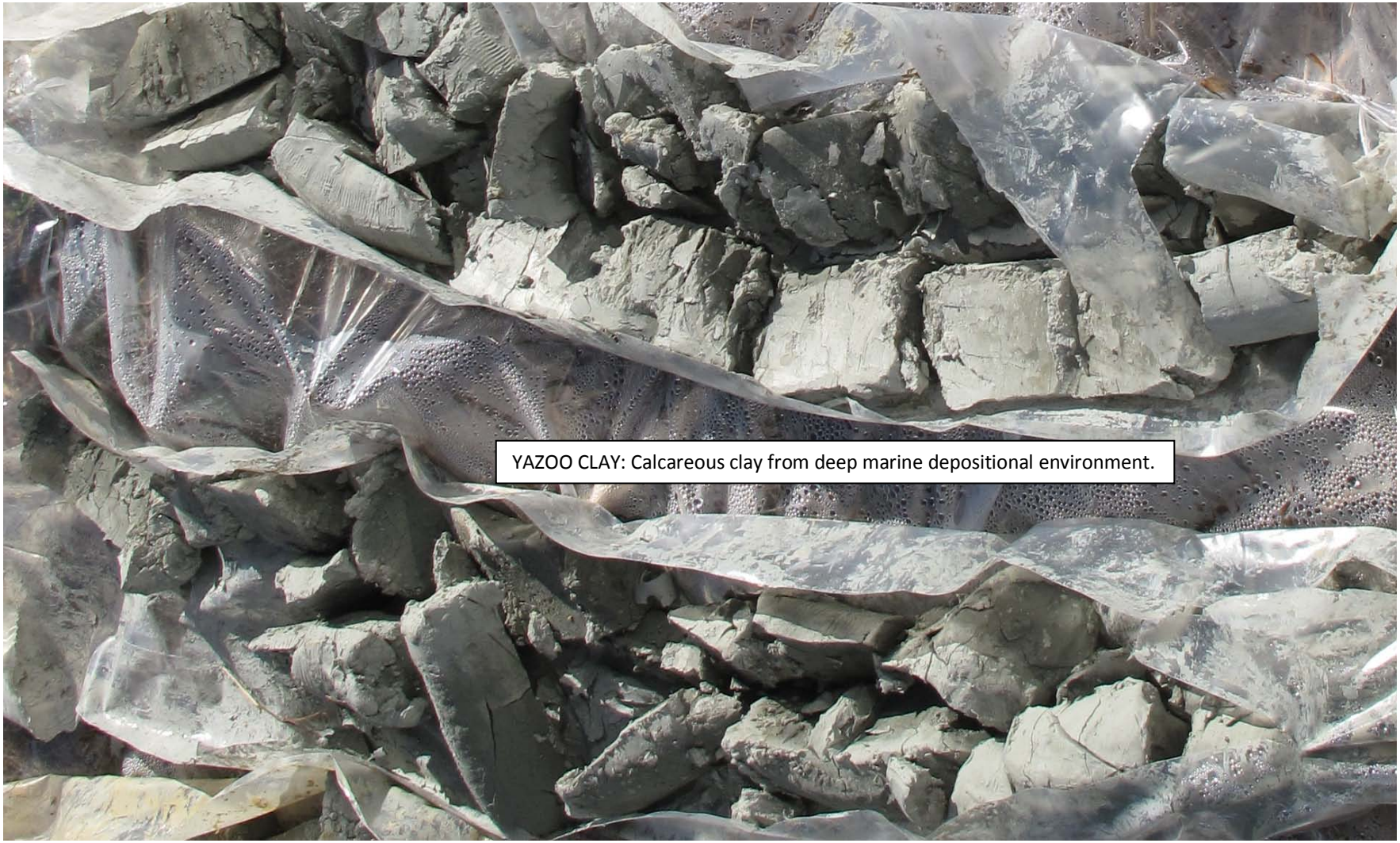
Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	7a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 30 to 40 ft bgs. Ten-foot sonic core run, with ~30 to 35 ft bgs along the bottom and ~35 to 40 ft bgs along the top. All core is grayish blue-green Yazoo clay. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	7b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12



Title: SWP04 sonic core from 30 to 40 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~30 to 35 ft bgs along the bottom and ~35 to 40 ft bgs along the top. All core is grayish blue-green Yazoo clay. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	7c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

Title: SWP04 sonic core from 30 to 40 ft bgs. Closeup of core from ~30 to 33 ft bgs, with 30 ft bgs starting at the upper right, and 33 ft bgs ending at the lower right. All core is grayish blue-green Yazoo clay. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	8a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 40 to 50 ft bgs. Ten-foot sonic core run, with ~40 to 45 ft bgs along the bottom and ~45 to 50 ft bgs along the top. All core is light grayish-green Moody Branch Formation, with abundant broken shell and glauconitic sand in the lower 5-feet above (e.g., the top of the photo). Glauconite is a platy phyllosilicate of mica group minerals, and was observed in the core as darker green microcrystalline areas surrounded by the lighter grayish-green clay matrix; per David Dockery, glauconite is much more abundant in the Moody Branch Formation compared to the Yazoo Clay. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the Moody Branch Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	8b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 40 to 50 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~40 to 45 ft bgs along the bottom and ~45 to 50 ft bgs along the top. All core is light grayish-green Moody Branch Formation, with abundant broken shell and glauconitic sand in the lower 5-feet above (e.g., the top of the photo). See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	8c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

MOODY BRANCH FORMATION: Glauconitic clay from open marine depositional environment.

Title: SWP04 sonic core from 40 to 50 ft bgs Closeup of core from ~41.5 to 43.5 ft bgs in the top photo, and ~42 to 44 ft bgs in the bottom photo. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	9a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

MOODY BRANCH FORMATION: Glauconitic clay from open marine depositional environment.

Title: SWP04 sonic core from 50 to 60 ft bgs. Ten-foot sonic core run, with ~50 to 55 ft bgs along the bottom and ~55 to 60 ft bgs along the top. All core is light grayish-green Moody Branch Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the Moody Branch Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	9b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

MOODY BRANCH FORMATION: Glauconitic clay from open marine depositional environment.

Title: SWP04 sonic core from 50 to 60 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~50 to 55 ft bgs along the bottom and ~55 to 60 ft bgs along the top. All core is light grayish-green Moody Branch Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the Moody Branch Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	10a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 60 to 70 ft bgs. Ten-foot sonic core run, with ~60 to 65 ft bgs along the bottom and ~65 to 70 ft bgs along the top. All core is light grayish-green Moody Branch Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the Moody Branch Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	10b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 60 to 70 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~60 to 65 ft bgs along the bottom and ~65 to 70 ft bgs along the top. All core is light grayish-green Moody Branch Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the Moody Branch Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	11a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 70 to 80 ft bgs. Ten-foot sonic core run, with ~70 to 75 ft bgs along the bottom and ~75 to 80 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the upper portion of the Cockfield Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	11b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 70 to 80 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~70 to 75 ft bgs along the bottom and ~75 to 80 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	11c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

Title: SWP04 sonic core from 70 to 80 ft bgs. Closeup of core from ~71.5 to 75 ft bgs, with 71.5 ft bgs starting at the upper right, and 75 ft bgs ending at the lower right. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	12a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 80 to 90 ft bgs. Ten-foot sonic core run, with ~80 to 85 ft bgs along the bottom and ~85 to 90 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the upper portion of the Cockfield Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	12b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 80 to 90 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~80 to 85 ft bgs along the bottom and ~85 to 90 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	13a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 90 to 100 ft bgs. Ten-foot sonic core run, with ~90 to 95 ft bgs along the bottom and ~95 to 100 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the upper portion of the Cockfield Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	13b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 90 to 100 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~90 to 95 ft bgs along the bottom and ~95 to 100 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	14a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 100 to 110 ft bgs. Ten-foot sonic core run, with ~100 to 105 ft bgs along the bottom and ~105 to 110 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions. At other regions in the county, local groundwater supply wells are installed in the upper portion of the Cockfield Formation, although the matrix is primarily sand in those regions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	14b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 100 to 110 ft bgs. Same as previous plate under different camera setting. Ten-foot sonic core run, with ~100 to 105 ft bgs along the bottom and ~105 to 110 ft bgs along the top. All core is brown / chocolate brown Cockfield Formation. See paper logs for descriptions.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	14c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/06/12

Title: SWP04 sonic core from 100 to 110 ft bgs. Closeup of core from ~100 to 105 ft bgs, with 100 ft bgs starting at the upper right, and 105 ft bgs ending at the lower right. See paper logs for descriptions.

Photographic Record

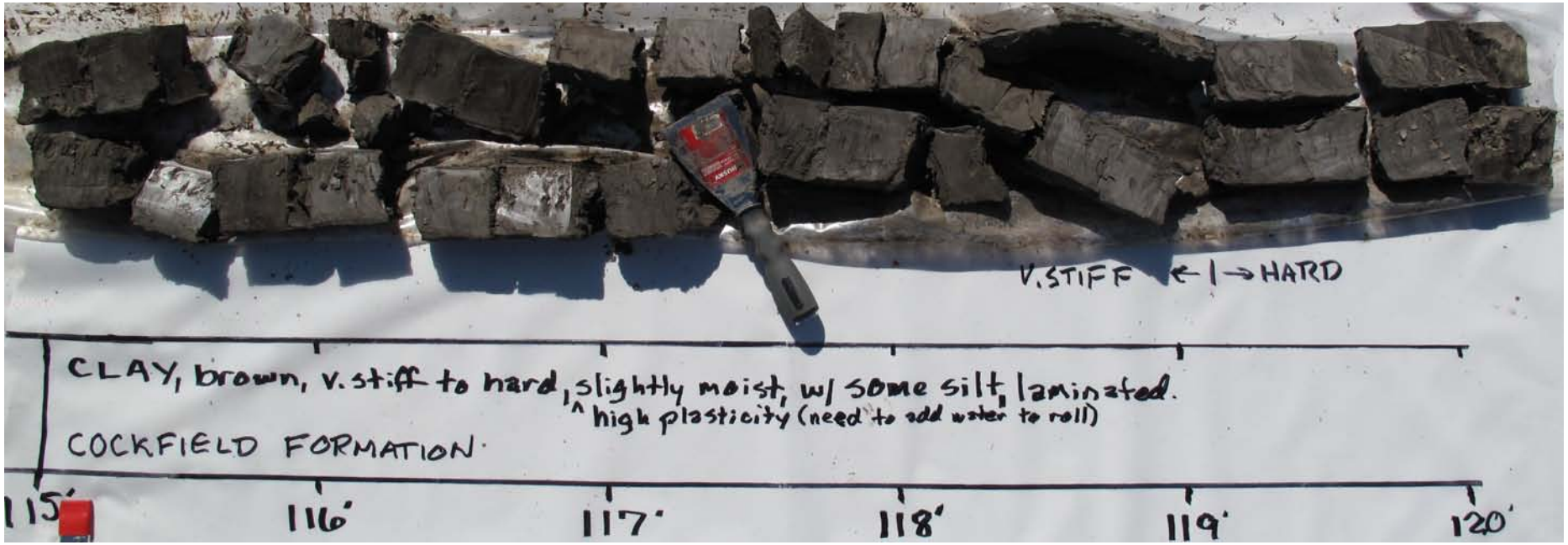
Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	15
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 110 to 115 ft bgs. Top photo is un-split core broken into segments along partings; the outside of the core is wet from drilling water. Bottom photo displays core split in half longitudinally. The core is primarily clay / silty clay. Contrary to the 3 clay zones of very stiff consistency, the consistency of the 2 silty clay zones were soft as attested by the ease in which the geologist's finger penetrated the core; the finger indentations are clearly visible in the silty clay from 110.8 to 111.3 ft bgs. The soft silty clay zones would roll into thin (1/8-in diameter) threads while holding together, attesting to high plasticity.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	16
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

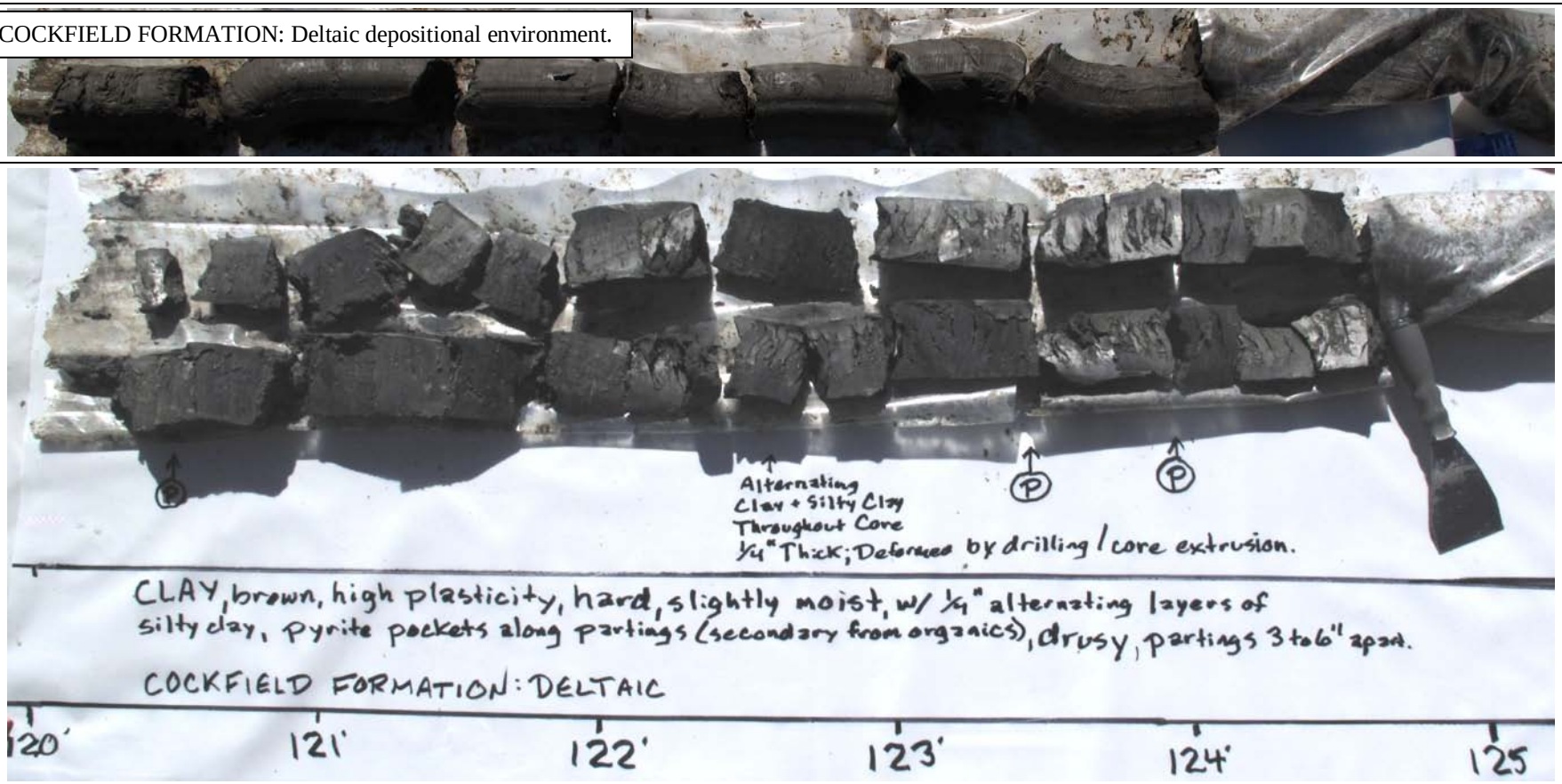
COCKFIELD FORMATION: Deltaic depositional environment.



Title: SWP04 sonic core from 115 to 120 ft bgs. Top photo is un-split core (bottom 6-in is split) broken into segments along partings; the outside of the core is wet from drilling water. Bottom photo displays core split in half. The core is laminated clay with some silt, of very stiff to hard consistency whereupon the geologist's fingernail could only penetrate the core under pressure. Regarding the high plasticity, the core was so hard it would not roll into thin threads without the addition of water. Recovery 110-120 ft bgs = 100-percent.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	17a
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12



Title: SWP04 sonic core from 120 to 125 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of hard consistency, whereupon the geologist's fingernail could only penetrate the core with difficulty. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart particularly visible from 123 to 125 ft bgs; the layering was produced by original deposition of the sediment. Examination of surfaces along the partings revealed occasional 'pockets' of post-depositional secondary drusy (microcrystalline) gold-colored pyrite; the pockets were typically around an inch in diameter and <one mm thick. Pyrite crystallization could be affiliated to the breakdown of organic material along the partings. The locations of pyrite are indicated by the three circled 'P's just below the core.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	17b
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 120 to 125 ft bgs. Macrolense enlargement of the segment from about 122 to 123 ft bgs displaying alternating layers of clay and silty clay spaced about ¼-inch apart. The layering was produced by original deposition of the sediment. The anastomizing layers could have occurred during deltaic deposition of the Cockfield Formation, although at least some of the curved layering along the edges of the core was likely caused by sonic drilling and/or core extrusion at the surface. Note the core was gripped on either side and bent thereby separating the clay which yields slick shiny surfaces from the silty clay / clayey silt which is dull.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	17c
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 120 to 125 ft bgs. Macrolense enlargement of the segment approximate central portion of previous plate displaying alternating layers of clay and silty clay. The layering was produced by original deposition of the sediment. The anastomizing layers could have occurred during deltaic deposition of the Cockfield Formation, although at least some of the curved layers along the edges were likely caused / deformed by sonic drilling and/or core extrusion at the surface. Note the dark swirling bands inside the clay, which could represent a high organic content. There are also 3 thumbnail indentations visible in the lower middle portion of the core, attesting to the hard consistency of the clay.

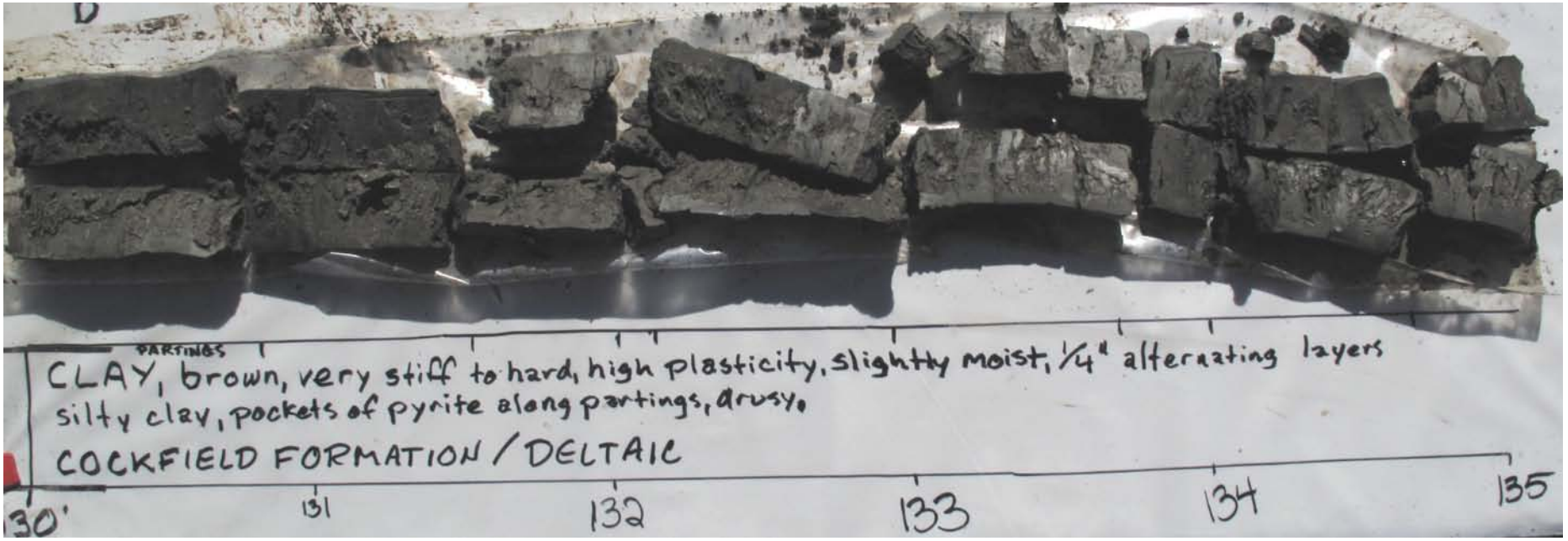
Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	18
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 125 to 130 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of hard to very stiff consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart. Occasional 'pockets' of post-depositional secondary drusy pyrite exist along partings. The additional ~1.5-feet of core at the top right in both photos represents the base of the10-foot run suggesting expansion of the core inside the core barrel; recovery from 120-130 ft bgs = 115-percent.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	19
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

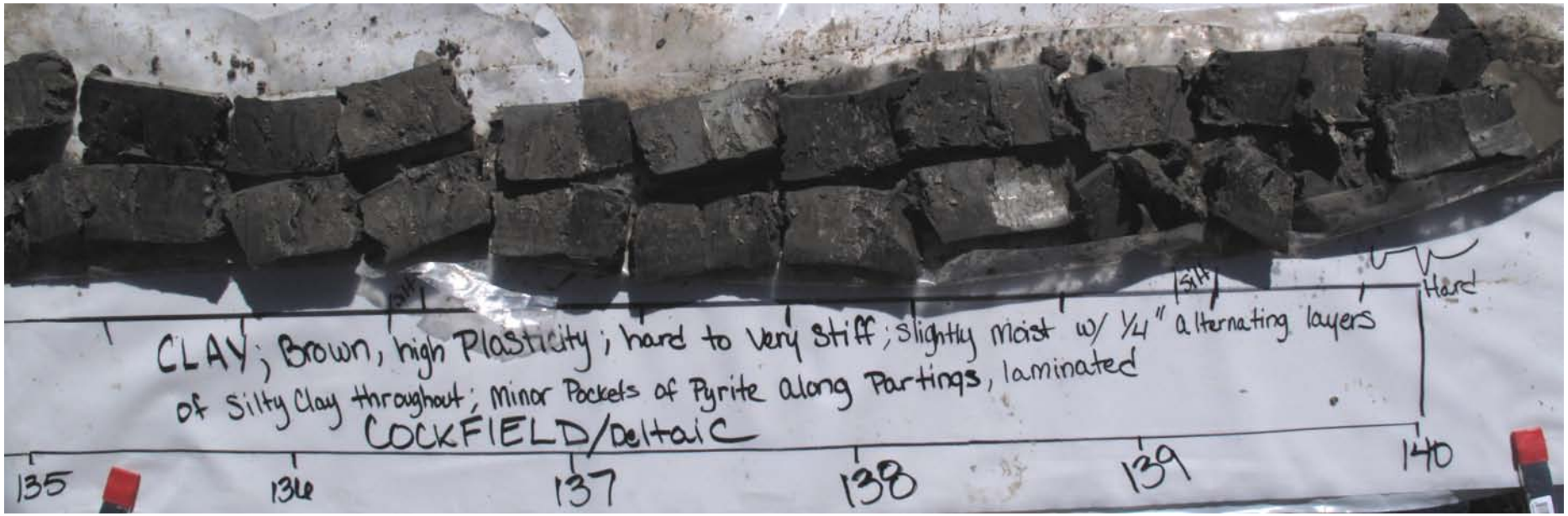


Title: SWP04 sonic core from 130 to 135 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of very stiff to hard consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart. Occasional 'pockets' of post-depositional secondary drusy pyrite exist along partings.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	20
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

COCKFIELD FORMATION: Deltaic depositional environment.

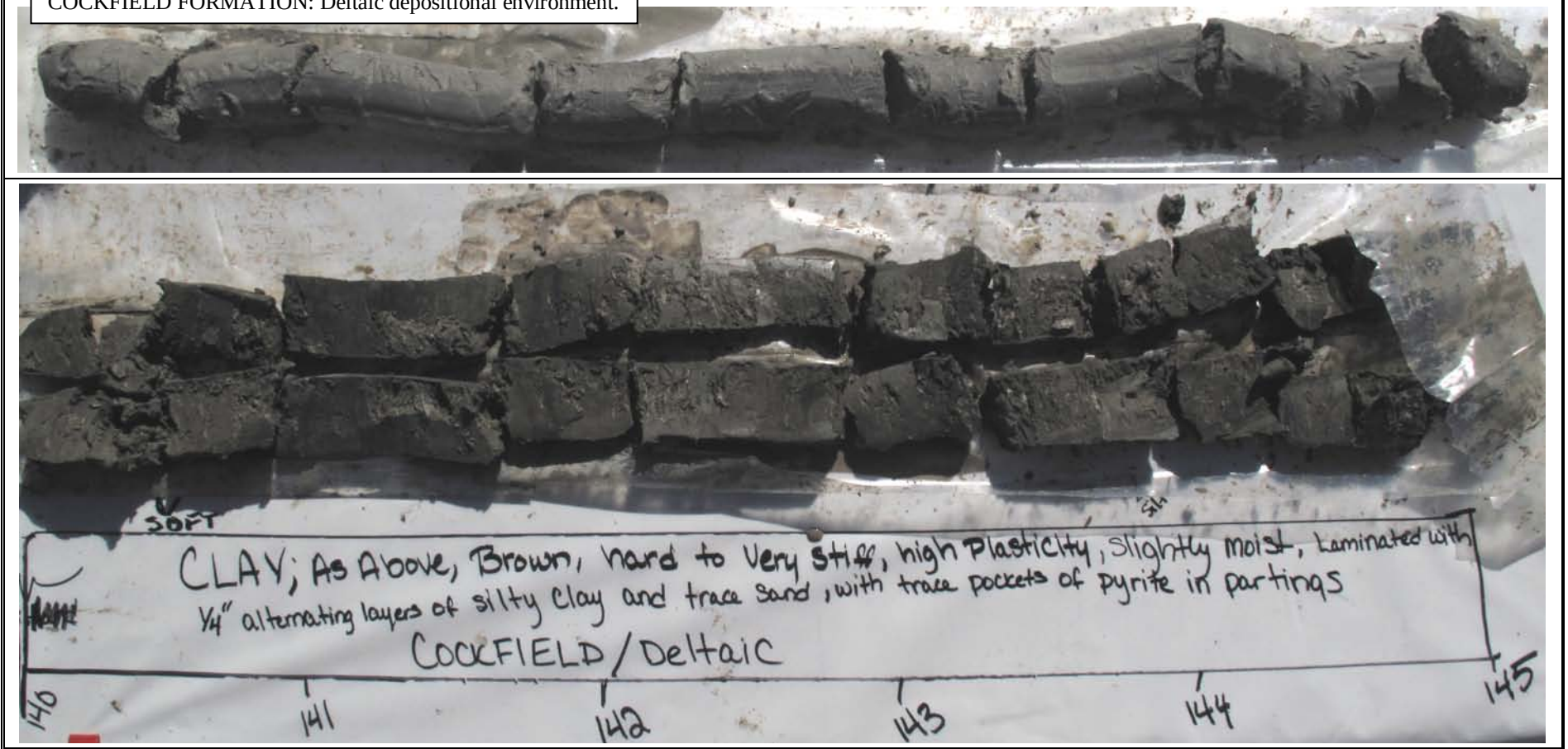


Title: SWP04 sonic core from 135 to 140 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of hard to very stiff consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart, with ~one mm thick alternating layers designated as laminated core. Occasional 'pockets' of post-depositional secondary drusy pyrite exist along partings. Recovery from 130-140 ft bgs = 105-percent.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	21
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

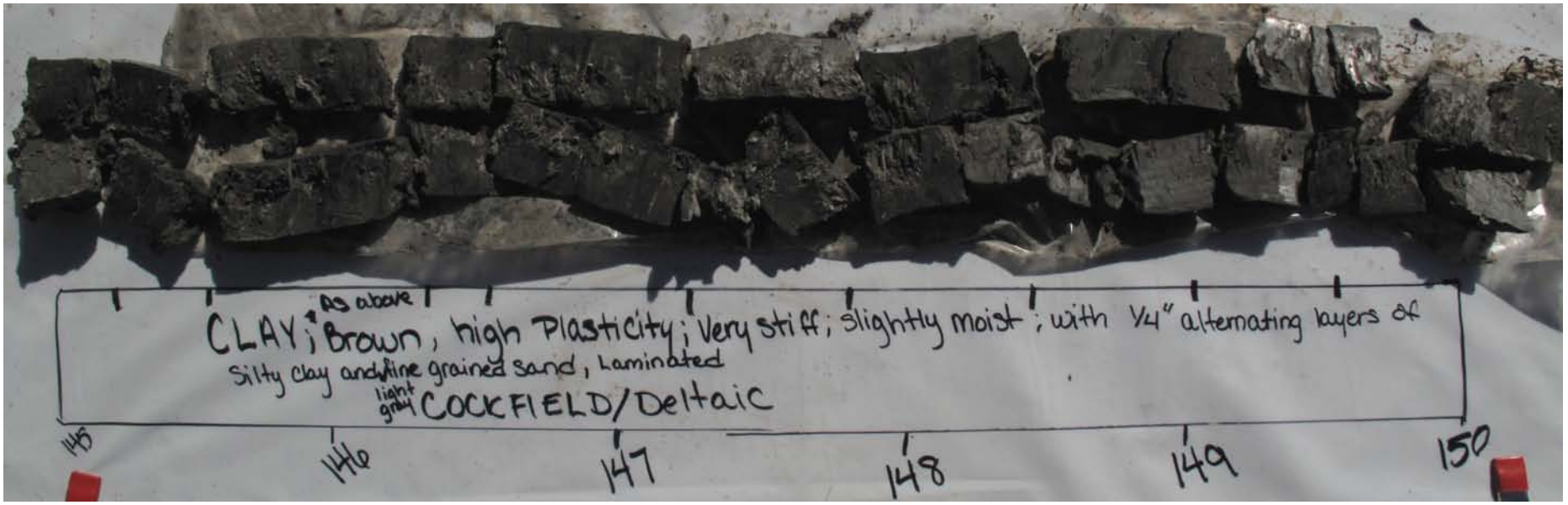
COCKFIELD FORMATION: Deltaic depositional environment.



Title: SWP04 sonic core from 140 to 145 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of hard to very stiff consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart, with ~one mm thick layers designated as laminated core. Occasional 'pockets' of post-depositional secondary drusy pyrite exist along partings. Other partings are coated with thin layers of very fine-grained quartz sand, which was deposited in the original deltaic environment.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	22
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

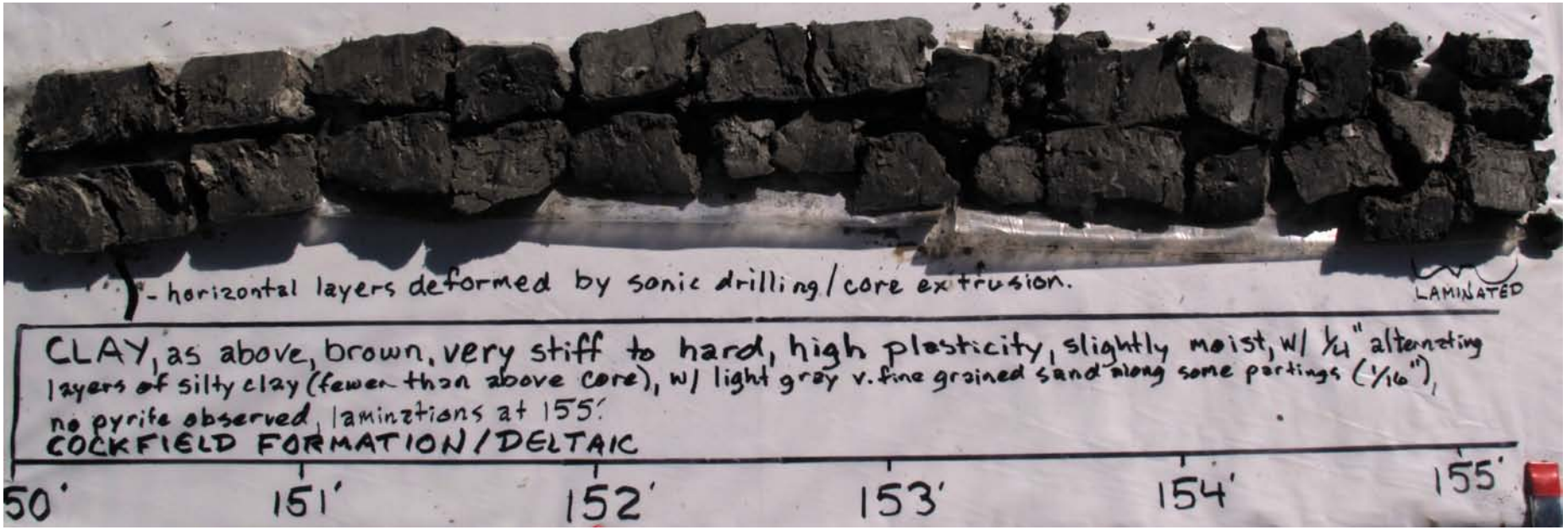


Title: SWP04 sonic core from 145 to 150 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of very stiff consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart, with ~one mm thick layers designated as laminated core. In addition, some of the laminations consist of light gray very fine-grained quartz sand up to two mm thick. Recovery from 140-150 = 100-percent.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	23
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

COCKFIELD FORMATION: Deltaic depositional environment.

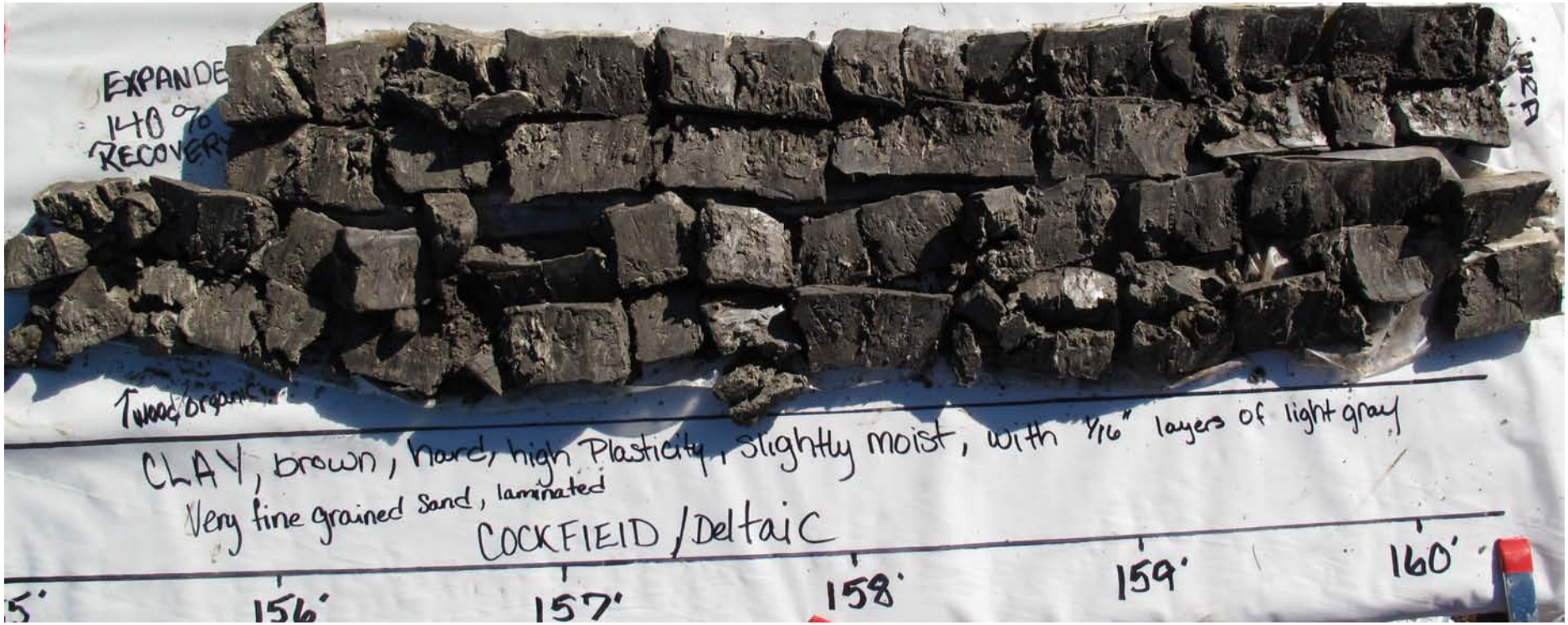


Title: SWP04 sonic core from 150 to 155 ft bgs. Photo displays core split in half. The core is primarily clay of very stiff to hard consistency. There are alternating layers of clay and silty clay in the core spaced about ¼-inch apart, with ~one mm thick laminations in the base of the core. In addition, some of the partings are coated with thin layers of very fine-grained quartz sand. The horizontal layers of the core were deformed from the extrusion process (i.e., while removing the core from the barrel at the surface), particularly at the top of the 150-160-foot run; see the curved layers within the top of this core with the note beneath.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	24
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

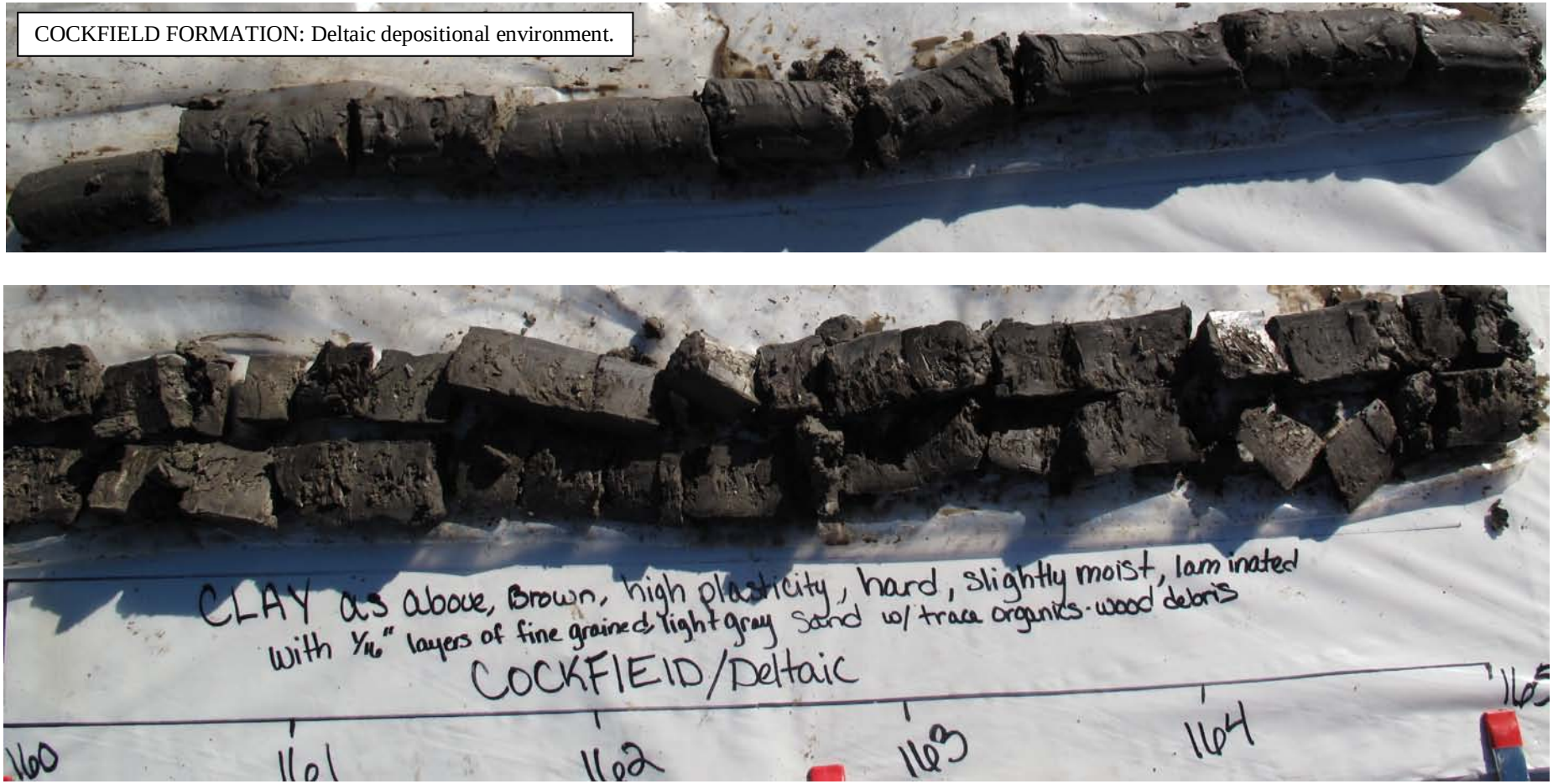
COCKFIELD FORMATION: Deltaic depositional environment.



Title: SWP04 sonic core from 155 to 160 ft bgs. The photo displays the core split in half. The core is primarily clay of hard consistency. There are ~1/16-inch thick laminations of light gray very fine-grained quartz sand. The additional 4-feet of split core along the top of the photo represents the base of the10-foot run suggesting expansion of the core inside the core barrel; recovery from 150-160 ft bgs = 140-percent.

Photographic Record

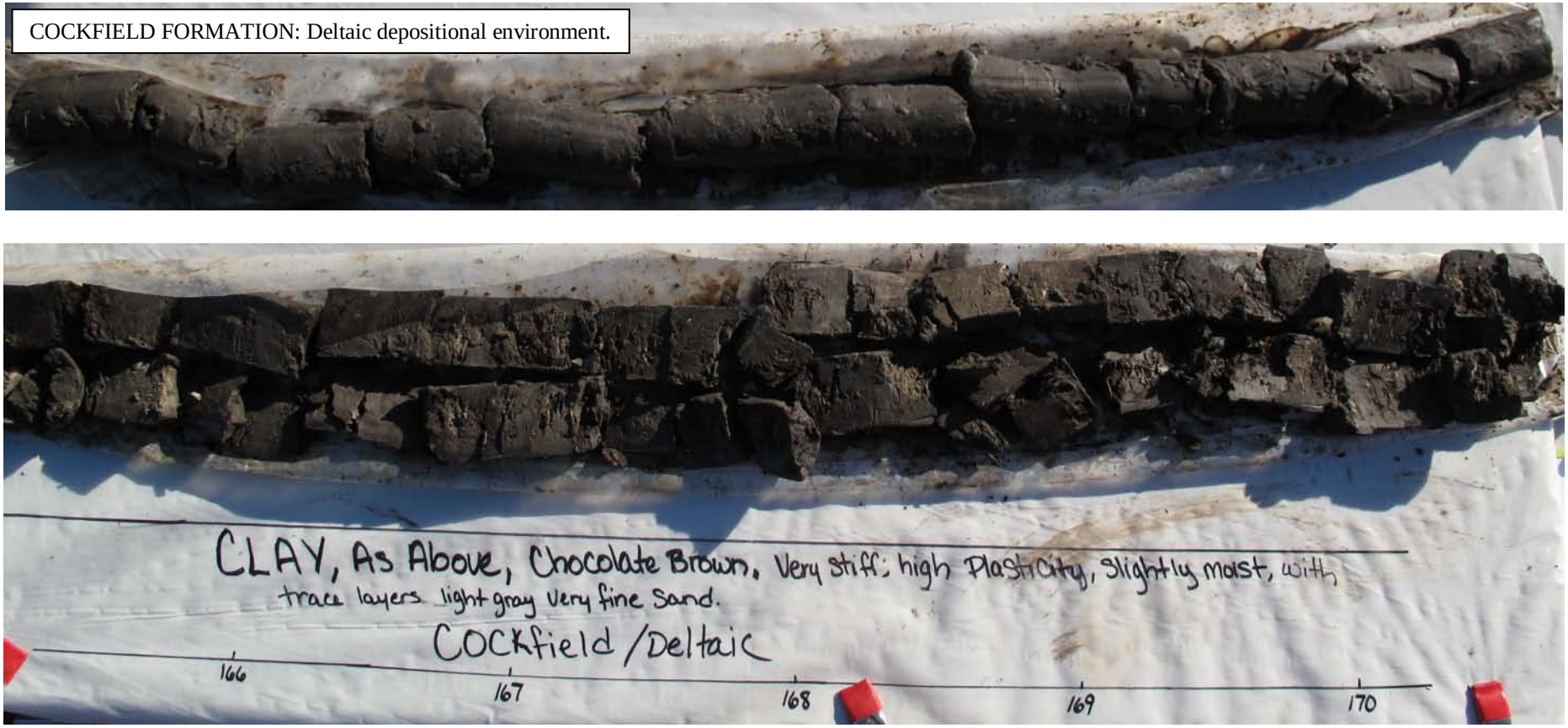
Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	25
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12



Title: SWP04 sonic core from 160 to 165 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of hard consistency. There are ~1/16-inch thick laminations of light gray very fine-grained quartz sand sandwiched between the clay. Trace organics consisting of decomposing woody material were noted along partings.

Photographic Record

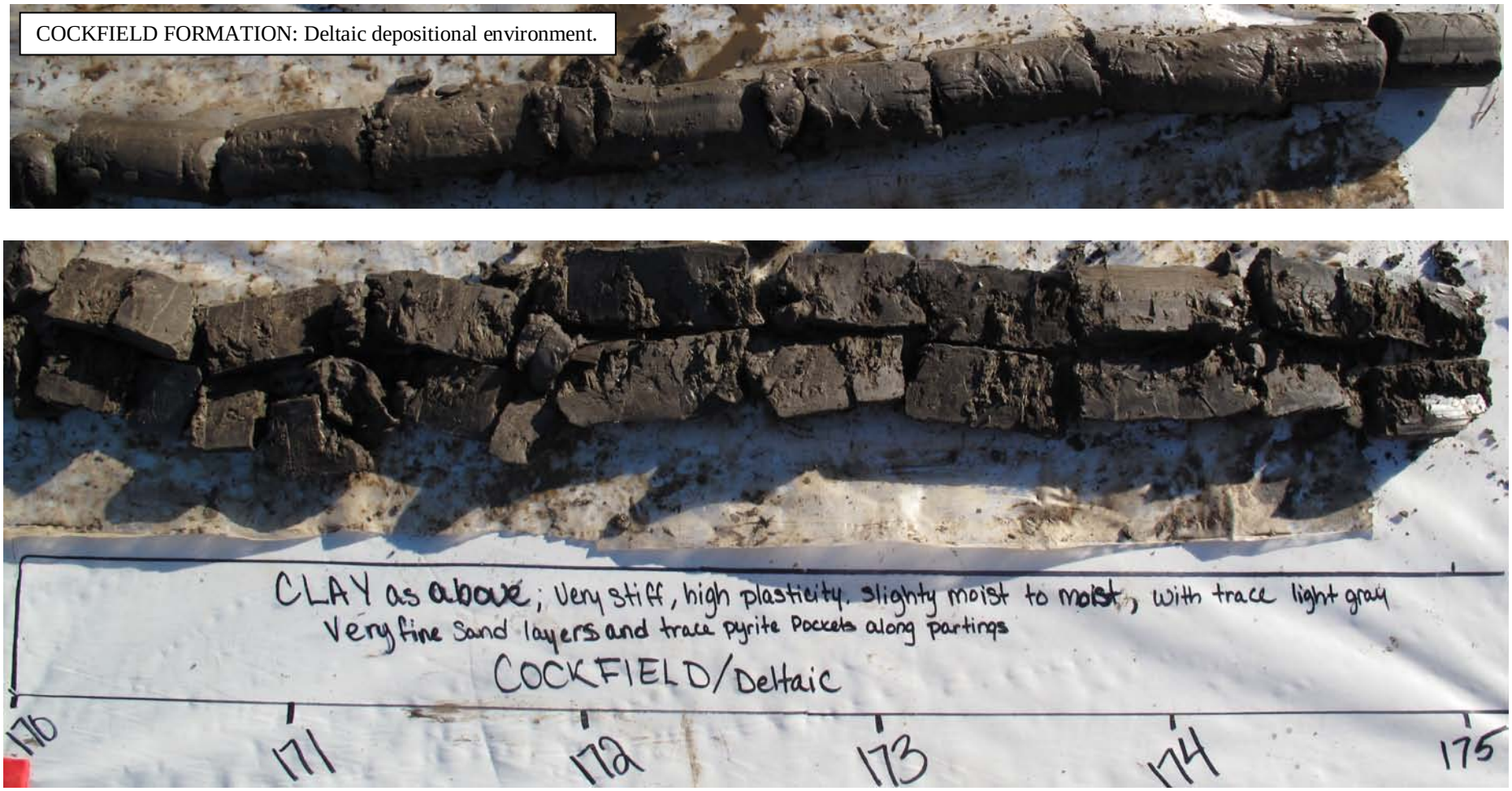
Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	26
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12



Title: SWP04 sonic core from 165 to 170 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of very stiff consistency. There are ~1/16-inch thick laminations of light gray very fine-grained quartz sand sandwiched between the clay. The color of the core is chocolate brown attesting to the decay of organic-rich muck (e.g., the deltaic depositional environment). Recovery for 160 to 170 ft bgs = 110-percent.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	27
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12



Title: SWP04 sonic core from 170 to 175 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of very stiff consistency. There are ~1/16-inch thick laminations of light gray very fine-grained quartz sand sandwiched between the clay. Also, there are occasional pockets of drusy pyrite on the surfaces of the partings.

Photographic Record

Project:	Southeastern Wood Preserving – Canton, MS	**Geologists:**	Jaime Richardson + Cal Butler (B&V)	**Plate Number:**	28
Client:	US Environmental Protection Agency Region 4	**Driller:**	Billy Moss (DrillPro Sonic Geoprobe)	**Photo Date:**	11/07/12

Title: SWP04 sonic core from 175 to 180 ft bgs. Top photo is un-split core broken into segments along partings. Bottom photo displays core split in half. The core is primarily clay of very stiff consistency. There are ~1/16-inch thick laminations of light gray very fine-grained quartz sand sandwiched between the clay. Also, occasional organic debris was observed along surfaces of the partings. Recovery from 170 to 180 ft bgs = 120-percent. END OF BORING; abandoned 11/08/12.

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Photographic Record

Client:	USEPA Region IV	Site Name:	Southeastern Wood Preserving Site
Project Number:	049065	Site Location:	Canton, Mississippi

Photo Number: 1 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** Creosote Saturated Soil from 5 to 6 ft bls at soil boring SWP001, concrete slab encountered at 6.7 ft bls.	
Photo Number: 2 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** Creosote Saturated Soil from 7 to 10 ft bls at soil boring SWP001	

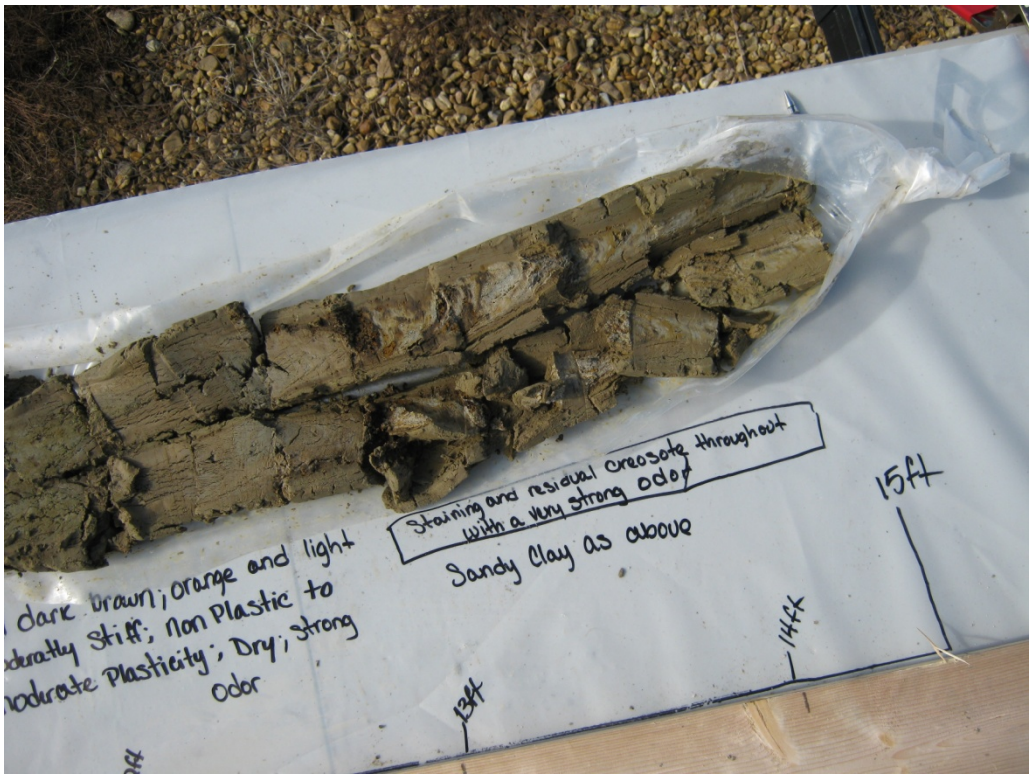
Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 3 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** Closeup of creosote saturated soil, soil boring SWP001 from 7 to 10 ft bls.	
Photo Number: 4 **Photographer:** J. Richardson **Date:** January 15, 2013 **Comments:** Clayey sand encountered in SWP002 from 289 to 290 ft bls.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 5 **Photographer:** J. Richardson **Date:** January 10, 2013 **Comments:** Sand encountered in SWP001 from 292 to 294 ft bls.	
Photo Number: 6 **Photographer:** J. Richardson **Date:** January 15, 2013 **Comments:** Clay encountered in SWP002 from 310 to 312 ft bls	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 7 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** Staining and residual creosote encountered in SWP001 from 13 to 15 ft bls	
Photo Number: 8 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** Residual sand saturated with creosote encountered in SWP001 from 18 ft bls.	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 9 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** SWP001 from 28 to 29 ft bls; mottled clay, gray and orange, represents the weathered portion of the Yazoo Clay	
Photo Number: 10 **Photographer:** J. Richardson **Date:** January 8, 2013 **Comments:** SWP001 (31-33 ft bls), transition between weathered and unweathered Yazoo Clay	

Client:	USEPA Region IV	**Site Name:**	Southeastern Wood Preserving Site
Project Number:	049065	**Site Location:**	Canton, Mississippi

Photo Number: 11 **Photographer:** J. Richardson **Date:** January 10, 2013 **Comments:** High flow conditions observed in Bachelor Creek, looking downstream from left bank at MW001.	
Photo Number: 12 **Photographer:** J. Richardson **Date:** January 18, 2013 **Comments:** Monitoring Well MW001, looking north toward Batchelor Creek.	

APPENDIX D

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Table D-1
Municipal Supply Wells Adjacent to SWP
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

PWS ID / DOH No.	E-Log ID	Well No.	USGS ID	Date of Install	Latitude	Longitude	Owner	S-T-R Location		Casing Depth (ft bls)	Screen Depth (ft bls)	Total Depth (ft bls)	Water Level (ft bls)
45006-01	N0051	1	N0046	05/01/63	32.620167	90.021900	City	18-9N-R3E	SE SE	901	974	1,050	187
45006-02	N2	5	N0024	06/13/69	32.616995	90.007669	City	20-9N-R3E	NW NE	870	936	996	171
45006-03	N3	6	N0044	07/30/76	32.616307	90.017141	City	20-9N-R3E	NW NW	812	892	1,103	93
45006-04	N4	7	N0047	11/14/85	32.618978	90.030512	City	18-9N-R3E	SE SW	935	995	2,000	141
45006-06		4	N0052	06/30/04	32.621778	90.021972	City	18-9N-R3E	SE SE	895	1,010	1,053	150

PWS ID / DOH No.	OLWR Permit	Water Pumped		Yield (gpm)	Aquifer (MDEQ)
		MGD	Acre-Feet		
45006-01	MS-GW-14111	0.76	1,142	835	Sparta
45006-02	MS-GW-14113	1.22	1,367	1,324	Sparta
45006-03	MS-GW-14112	1.07	1,199	1,147	Sparta
45006-04	MS-GW-00491	1.02	1,143	1,100	Sparta
45006-06	MS-GW-15994	1.02	851	1,000	Sparta

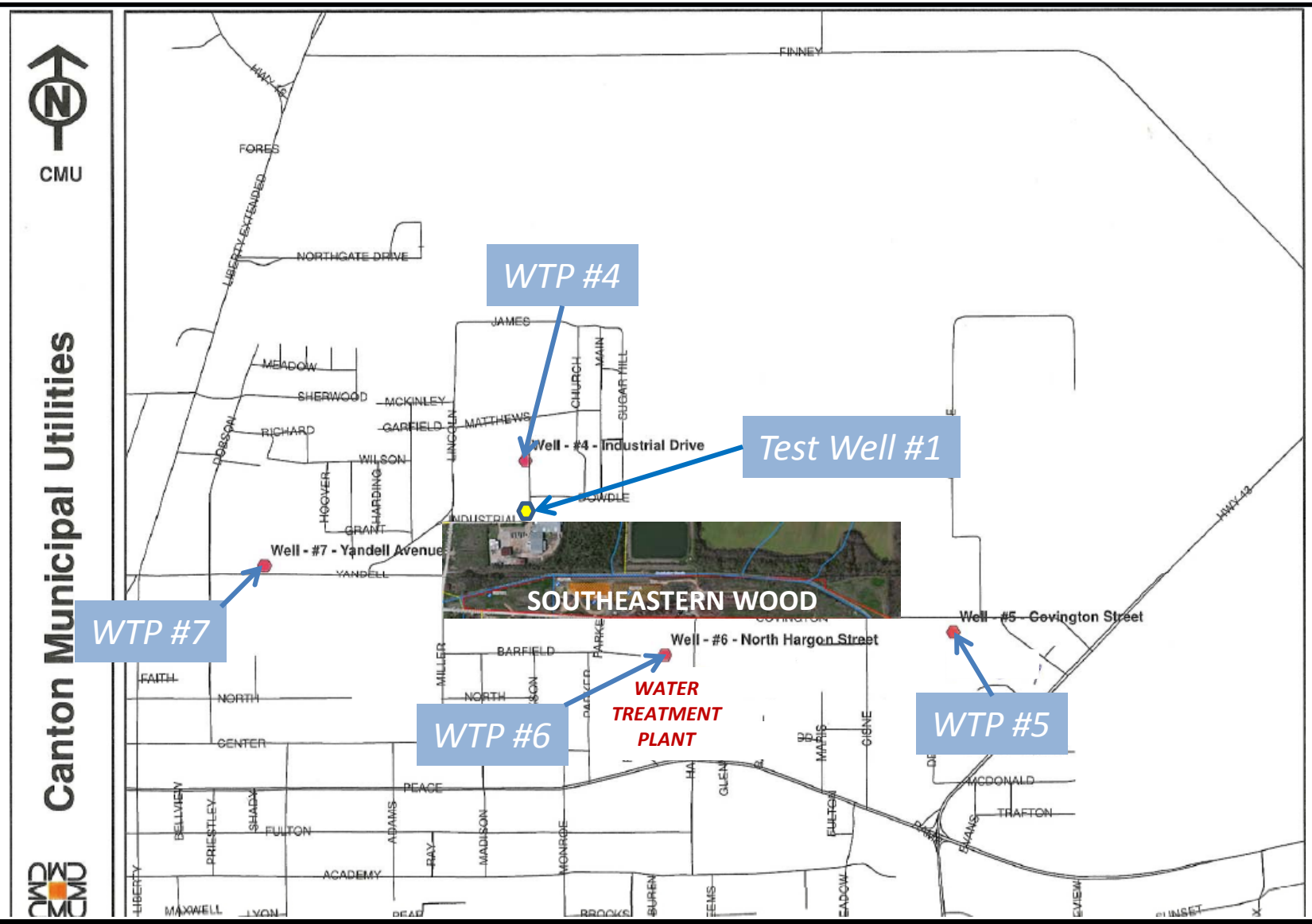
Abbreviations:
E-log = electrical log
City = City of Canton
gpm = gallons per minute
PWS = Public Water System
DOH = Department of Health
ft bls = feet below land surface
S-T-R = section-township-range
MGD = millions of gallons per day
USGS = United States Geological Survey
OLWR = Office of Land and Water Resources
MDEQ = Mississippi Department of Environmental Quality
GARD = Groundwater Assessment and Remediation Division

NOTES: Well No. 1 was decommissioned approximately 20 years ago.
Well No. 6 was decommisioned in 2012 by filling the well casing with concrete.
Data was obtained from (1) Records of Public Supply Wells in Mississippi - 2007, (2) Water Well Driller's Logs for all 5 wells from the Mississippi Board of Water Commissioners, (3) electrical logs for N51, N2, N3, and N4, (4) MDEQ GARD Southeastern Woods Radial Well Search January 14, 2009, and (5) Southeastern Wood Preserving 2013 Potable Well Sampling Final Report USEPA Region 4.

Table D-2
Geology and Hydrogeology of Municipal Well WTP 6
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Top Depth (ft bls)	Bottom Depth (ft bls)	Driller's Description	Geologic Designation	Thickness (feet)	Hydrogeologic Interpretation
0	32	red clay	Yazoo Clay	80	**Confining Layer**
32	80	blue clay			
80	90	sand + clay	Moody Branch Formation	10	Locally yields minor water
90	110	lignite, sand, + clay	Cockfield Formation	100	**Confining Layer**
110	190	brown clay			
190	225	sand - clay		245	**Cockfield Aquifer**
225	240	clay			
240	435	sand, lignite streaks, + shale			
435	455	shale	Cook Mountain Formation	130	**Confining Layer**
455	565	shale + sand streaks			
565	580	sand	Sparta Formation	250	**Sparta Aquifer = Principal Aquifer for Municipal Drinking Water Surrounding SWP**
580	635	shale			
635	637	rock			
637	815	shale + sand streaks			
815	902	sand		87	**Well Screen / Producing Interval WTP 6**
902	920	shale + sand streaks	Zilpha Clay	201	**Confining Layer**
920	1020	sand + shale streaks			
1020	1103	shale + sand streaks			

NOTE:
Electric log of WTP #6 considered for the geologic designation and interpretation.



City of Canton Water Treatment Plant & Municipal Well Map
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Figure D-1

Electrical Log for Municipal Well 6 (a.k.a. N3): WTP at Covington Drive & North Hargon Street
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

Figure D-2

N003

Water Plant Well across from SWP

Producing Zone of Cookfield

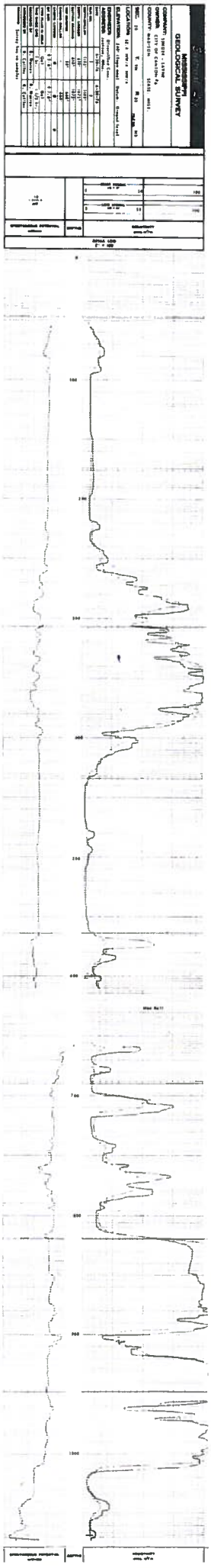
Sec 20 T 9N R 3E

Location 5left NW/4 NW/4

June 30 1976

Drill Depth = 1102'

Elev-Topo Map = 240.



Water Producing Zone

- intervening semi-"confining" unit; probably clayey

Usually upper aquifer/zone - Missing here

↓

Lower aquifer present

Cook Mtn Fm (mine clay

Sparta - main commercial aquifer

Tallahatta Shale/clay

Cal Butler

November 2012

N002

LOG NO 112 | ELECTRIC LOG #2 | MADISON CO.

WELL NO. M-26 | LOCATION

ALTITUDE 210' | NW¼ NE¼

DATUM GL | SECTION 22-3

NAME Carbon Monoxide Division

DRILLER Wayne Central - Jackson

LOG INTERVAL 13' TO 998'

RUN NO.	1	2
DATE	5-31-49	
T.D.CASING		
T.D.LOGGER	999'	
T.D.DRILLER	996'	

FLUID RESISTIVITY ____ OHMS AT ____° F.

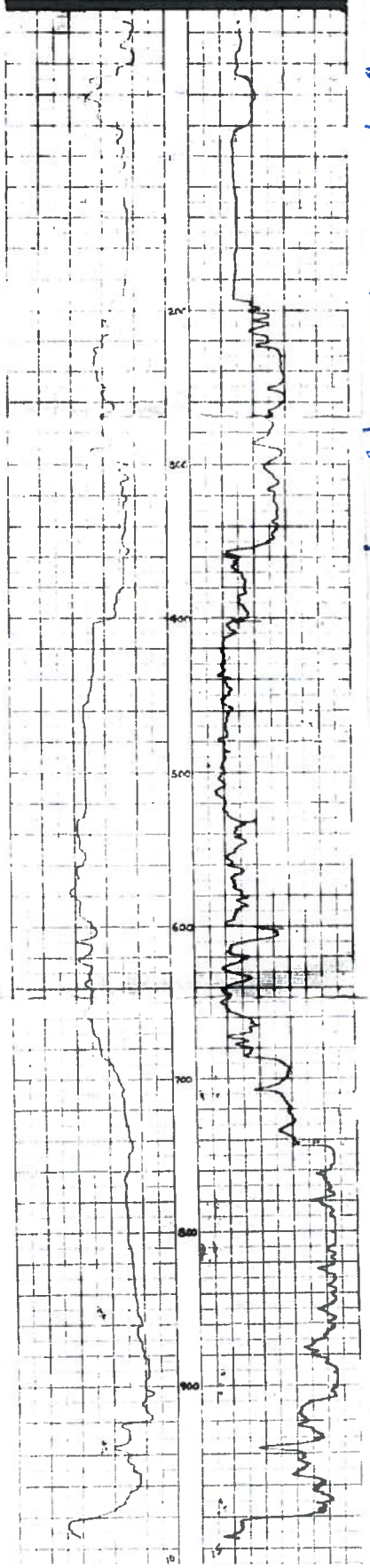
FLUID LEVEL ____ FEET

NATURE OF FLUID Drlg. mud

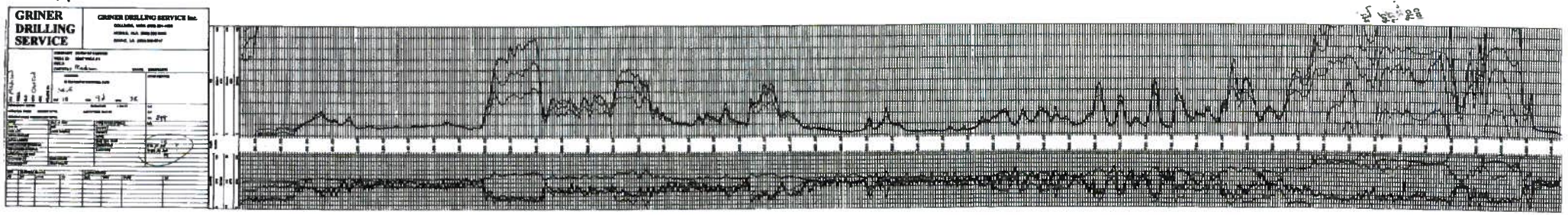
REMARKS

RECORDED BY R. Thomson

SPONTANEOUS POTENTIAL 10 MILLIVOLTS | RESISTANCE 25 OHMS



N-0051



N004
(File #)

N-3 Page 1 of 5

Electrical Log

MISSISSIPPI GEOLOGICAL SURVEY

COMPANY: SINGER - LAYNE
OWNER: CITY OF CANTON #6
COUNTY: MADISON STATE: MISS.

SEC. 20 **T.** 9N **R.** 3E **FILE NO.** N3

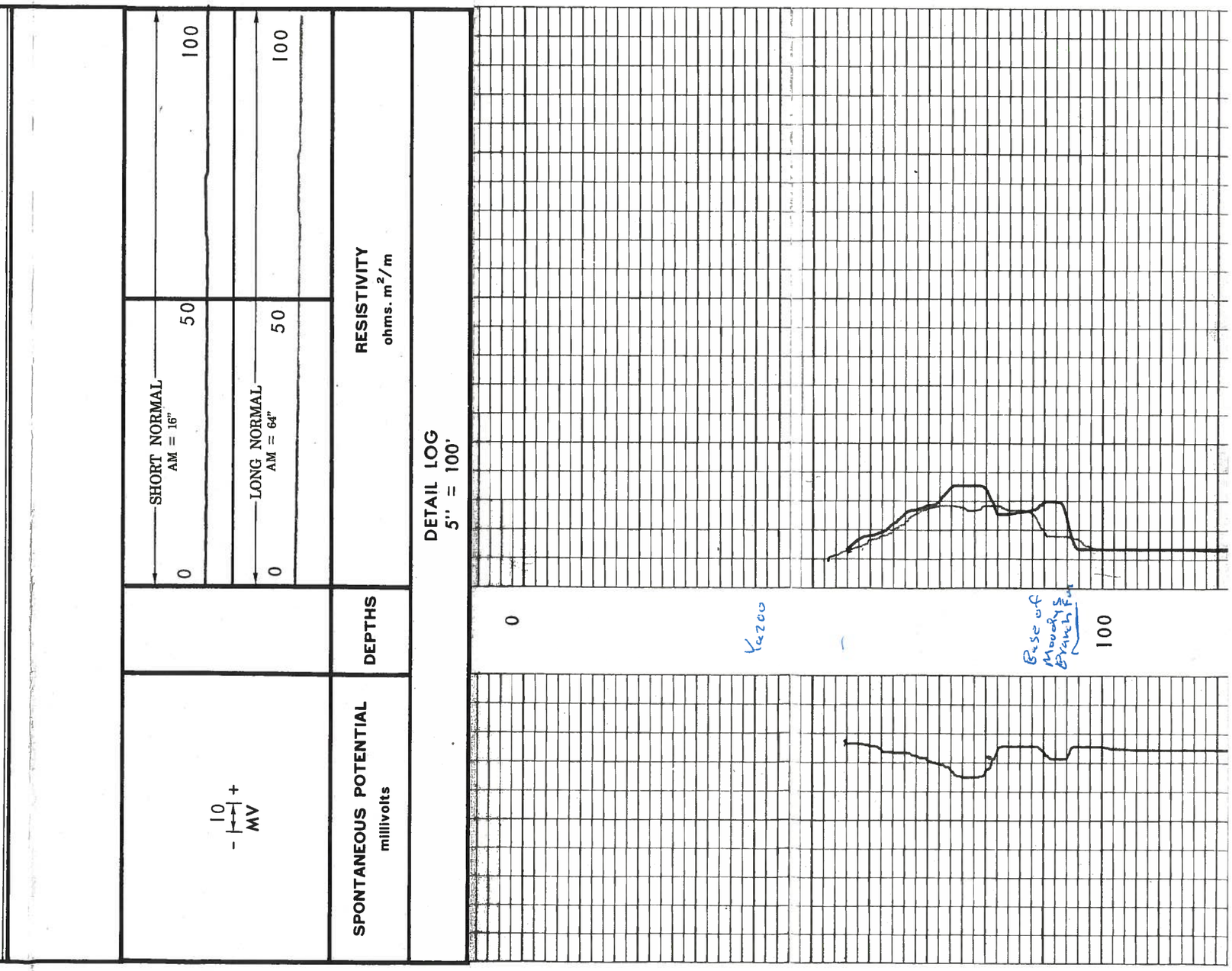
LOCATION: SE/4 NW/4 NW/4

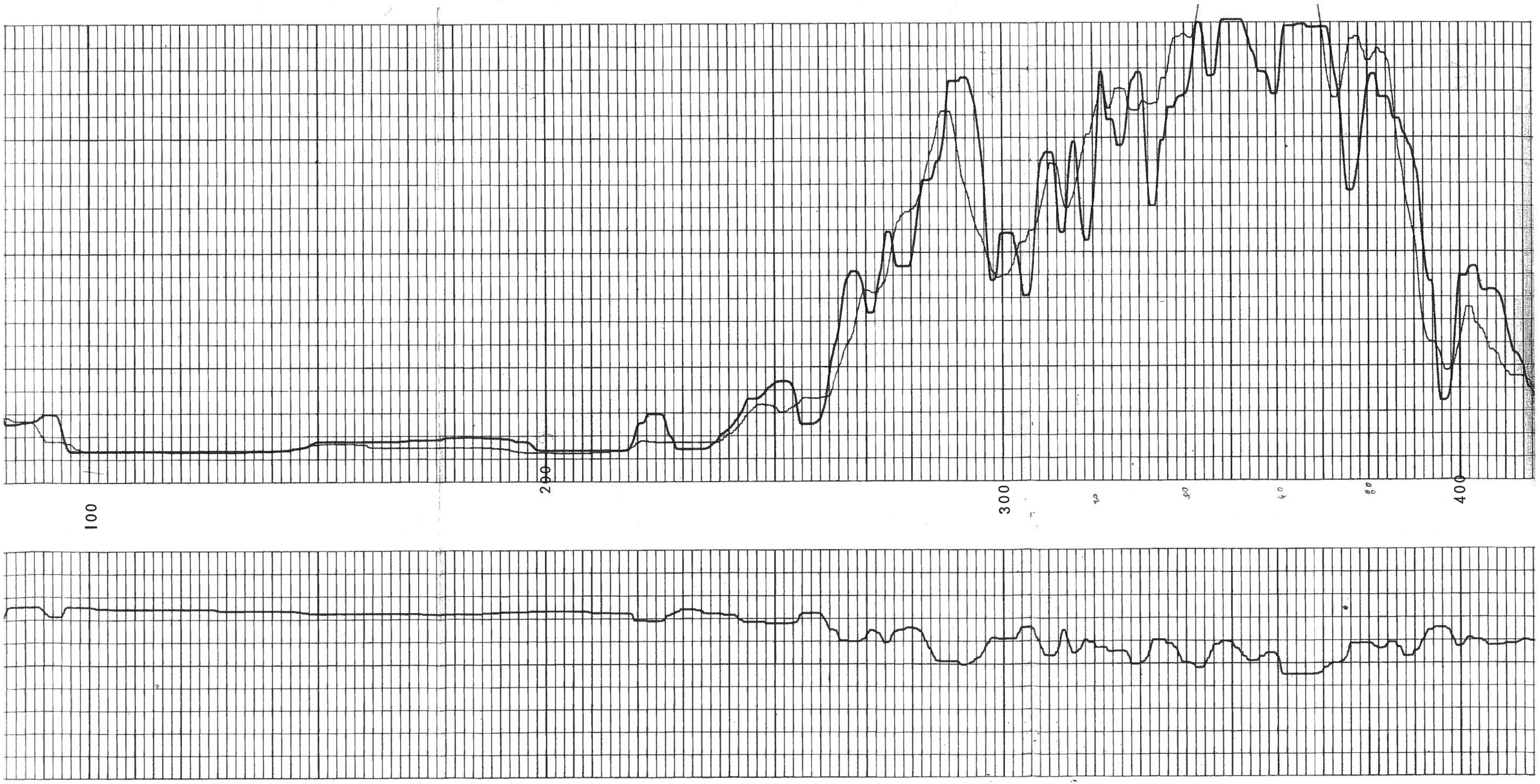
ELEVATION: 240' (Topo map) Datum: Ground level

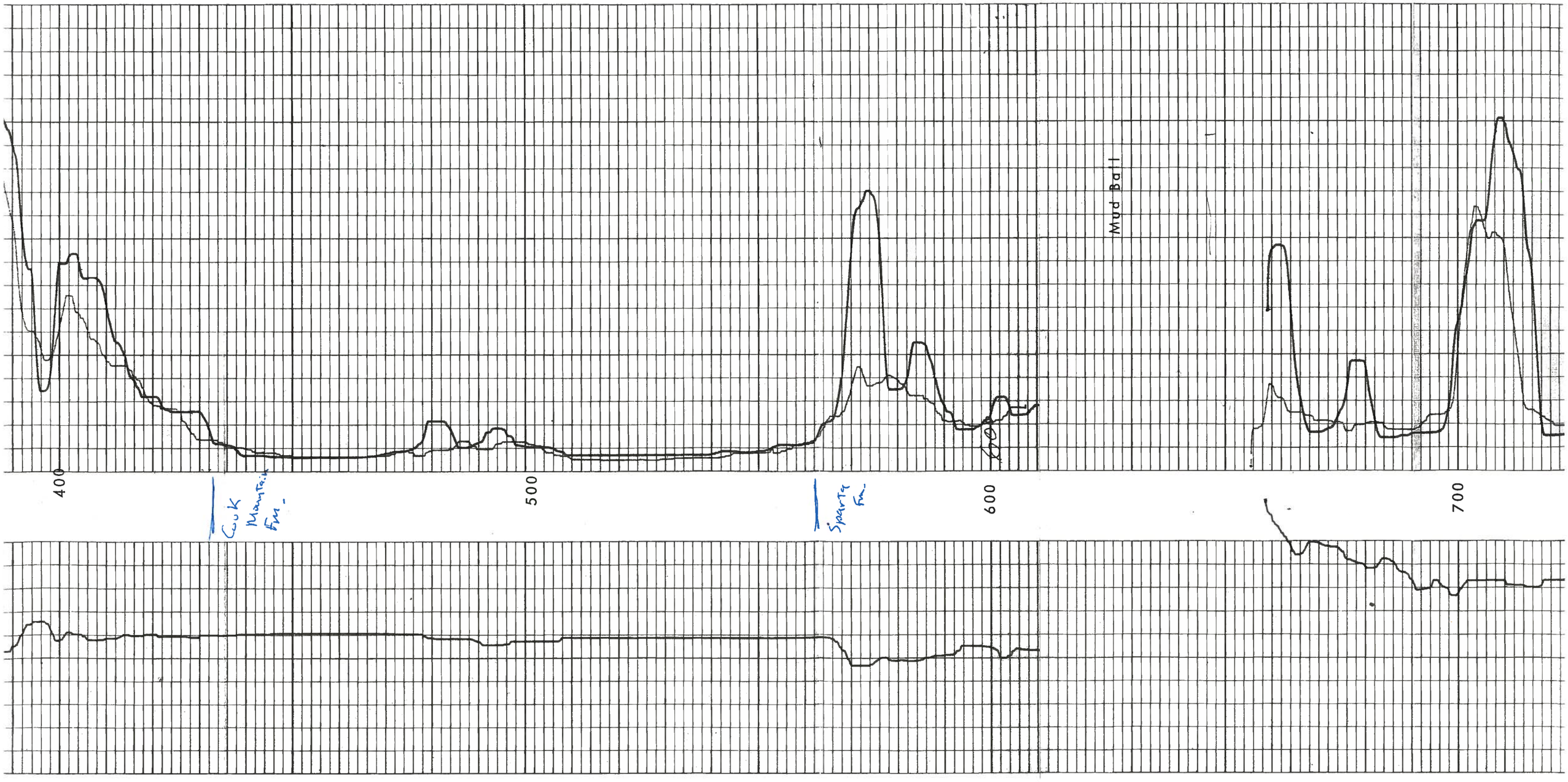
ENGINEER: Diversified Cons.
ADDRESS: Jackson, Miss.

DATE	6-30-76	6-30-76	
RUN NO.	1	2	
DEPTH-DRILLER	1102'	1102'	
DEPTH - LOGGER	610'	1072'	
BOTTOM READING	610'	1072'	
TOP READING	55'	660'	
CASING - DRILLER	-	660'	
CASING - LOGGER	@	@	@
BIT SIZE	9 7/8"	9 7/8"	
TYPE FLUID IN HOLE	Gel	Gel	
TIME SINCE CIRC.	1 hr.	1 1/2 hr.	
RECORDED BY	R. Warren	R. Warren	
WITNESSED BY	R. Collins	R. Collins	

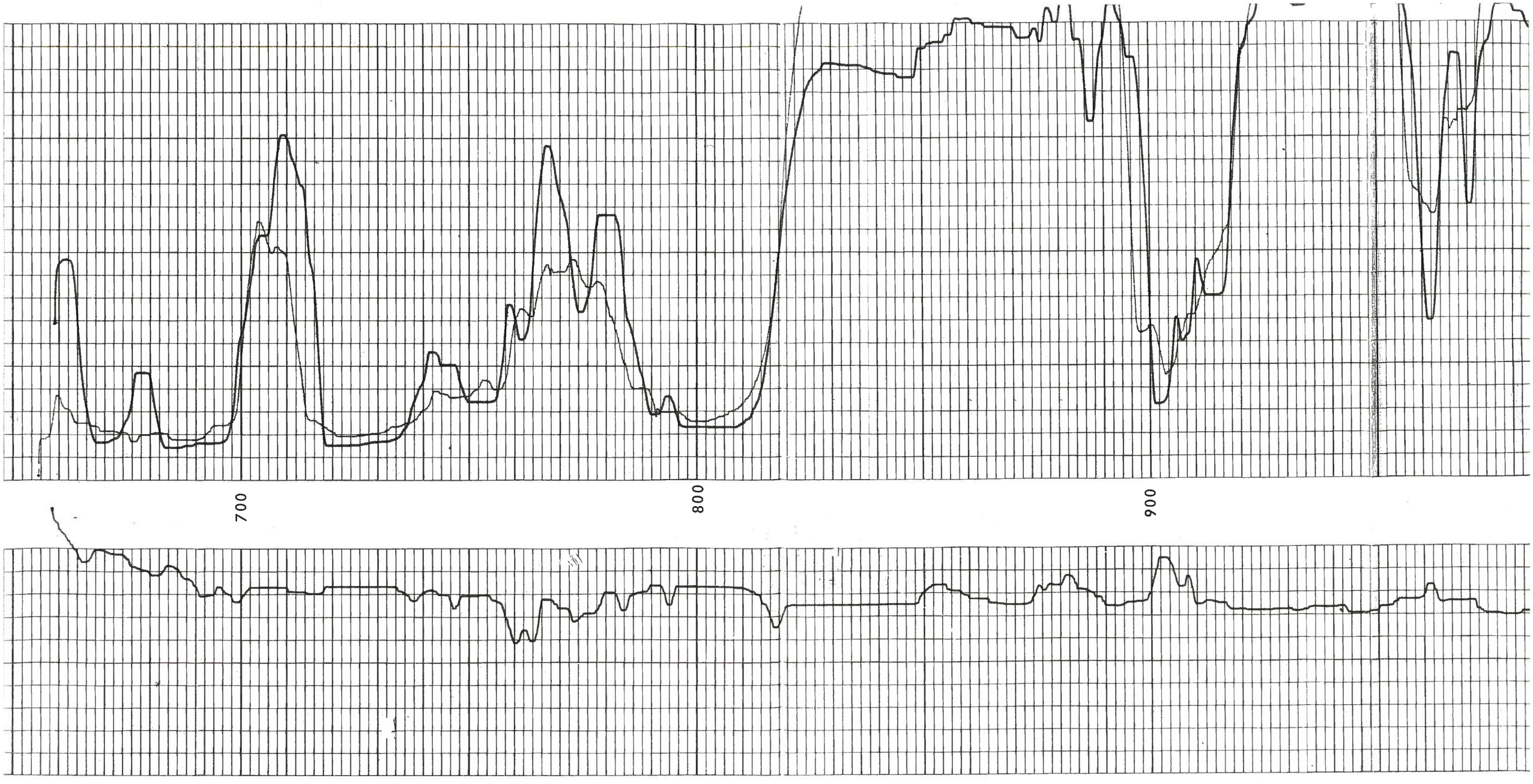
REMARKS: Survey has no samples

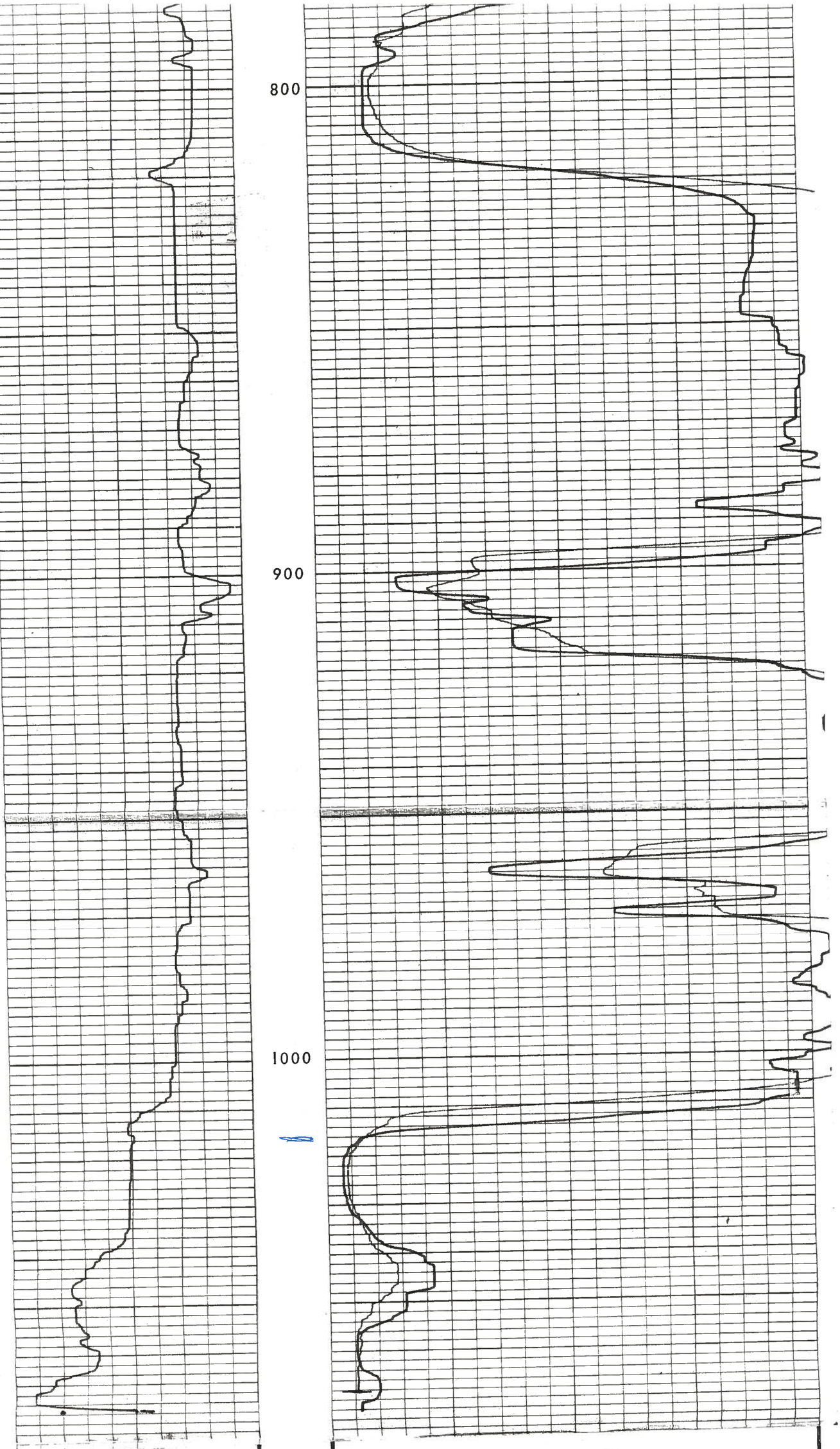



100
200
300
400


Mud Ball
400
500
600
700
Cook Mountain Fm.
Sparta Fm.

NB Page 4





SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms. m^2/m	
		SHORT NORMAL AM = 16"	
		0 50	100
		LONG NORMAL AM = 64"	
		0 50	100
10 - MV +			

Page 5

N0051
Page 1 of 4

GRINER DRILLING SERVICE

GRINER DRILLING SERVICE Inc.

COLUMBIA, MISS. (800) 221-4098
MOBILE, ALA. (800) 592-9355
RAYNE, LA. (888) 840-6747

N-0051

COMPANY ~~TOWN~~ OF CANTON
WELL ID TEST WELL #1
FIELD
COUNTRY STATE MISSISSIPPI

WELL
FLD
CTY
STE
FILING No

LOCATION
IN THE CANTON INDUSTRIAL PARK
NESE
SEC 18 TWP 9N RGE 3E

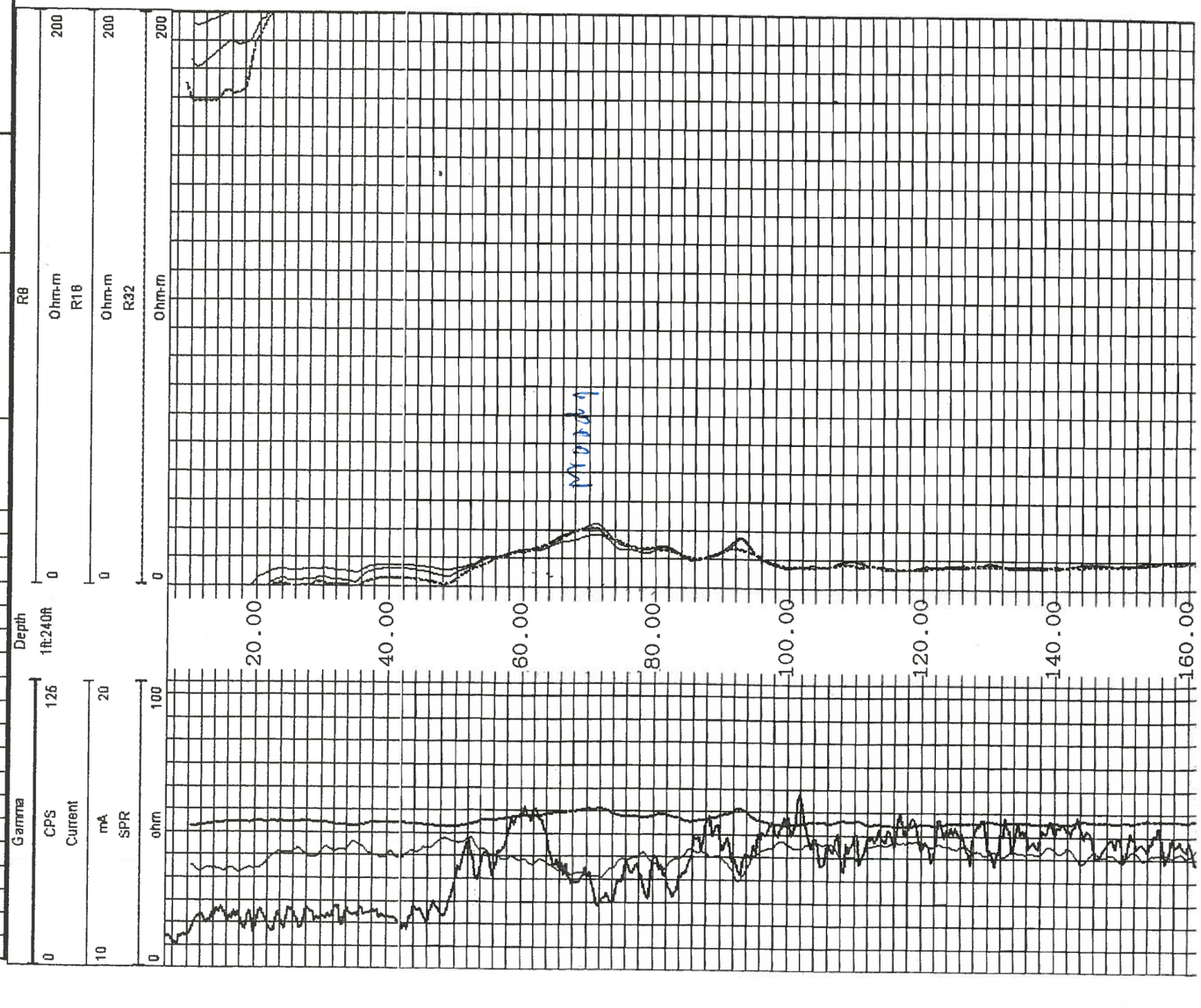
OTHER SERVICES

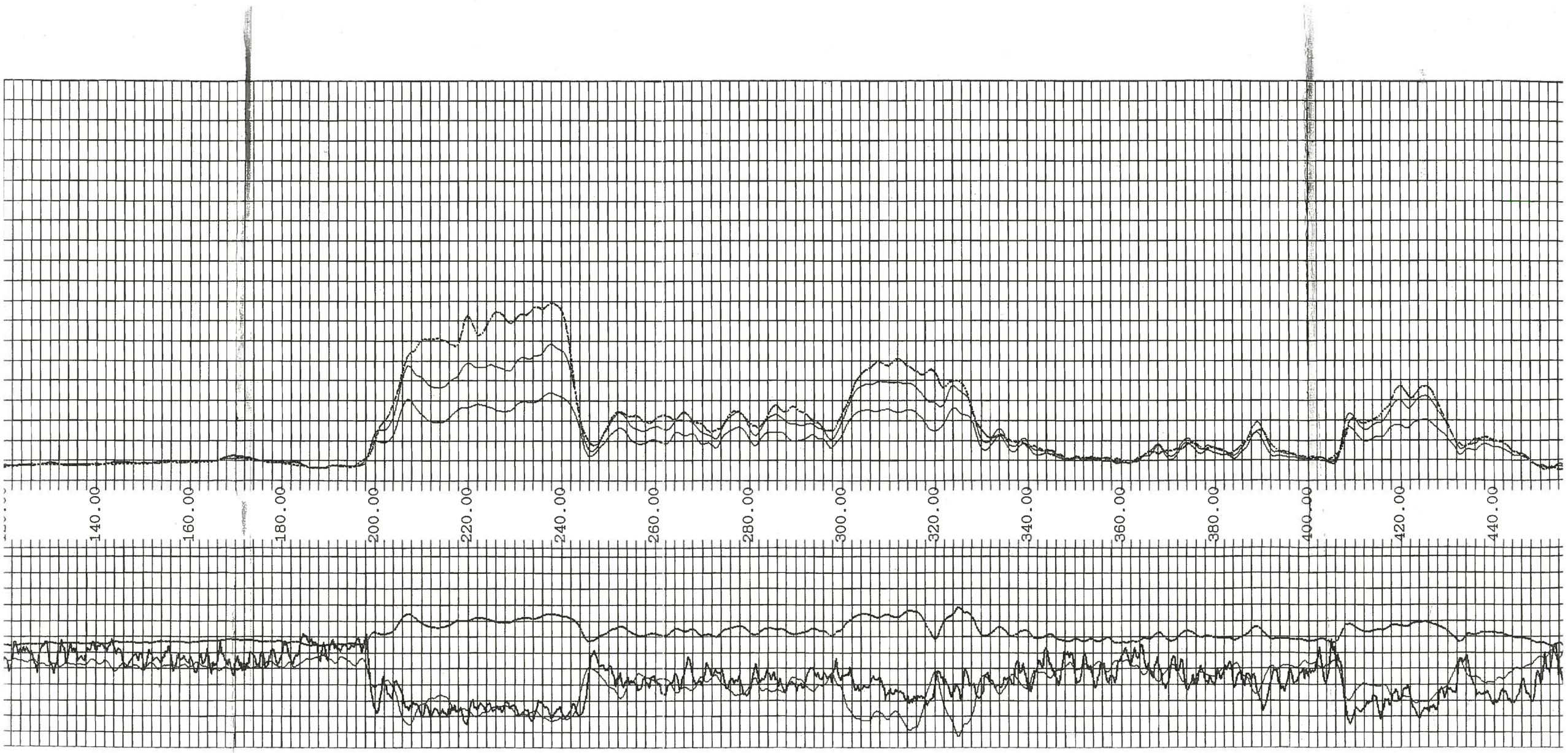
ERMANENT DATUM ELEVATION + 249 FT. K.B.
OG MEAS. FROM ROTARY LEVEL ABOVE PERM. DATUM D.F.
RILLING MEAS. FROM ROTARY LEVEL G.L.

ATE	JULY 13, 2003	TYPE FLUID IN HOLE	GEL
ON No	ONE	SALINITY	
PE LOG	E-LOG, GAMMA	DENSITY	
EPTH-DRILLER		LEVEL	
EPTH-LOGGER		MAX. REC. TEMP.	
M LOGGED INTERVAL		LONGITUDE	N 32, 37, 248
P LOGGED INTERVAL		LATITUDE	W 090, 01, 316
ERATING RIG TIME			
CORDED BY	MIKE GRINER		
TNESSED BY	JERRY BEACH		

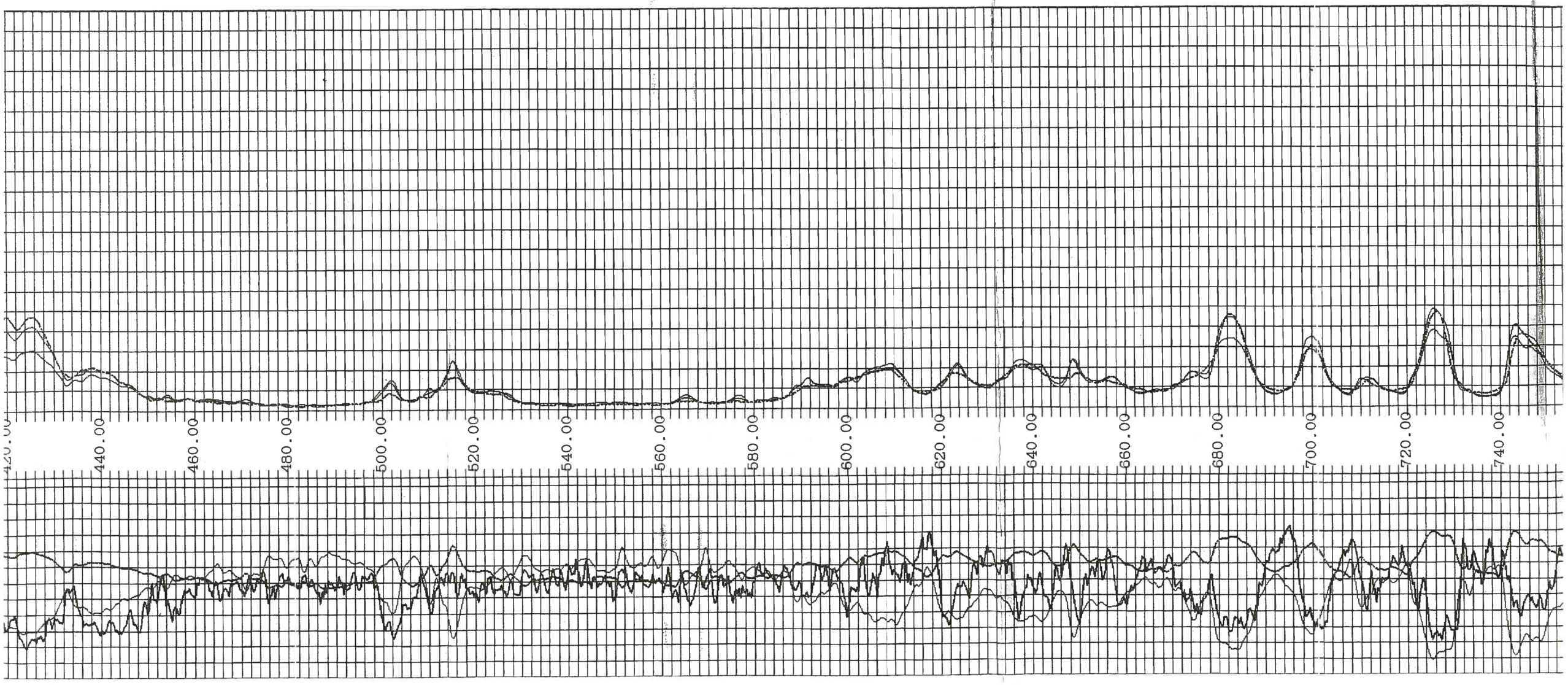
ENGINEER WGK (Robert Anderson)

N	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO




140.00
160.00
180.00
200.00
220.00
240.00
260.00
280.00
300.00
320.00
340.00
360.00
380.00
400.00
420.00
440.00

N0051
Page 3


420.00
440.00
460.00
480.00
500.00
520.00
540.00
560.00
580.00
600.00
620.00
640.00
660.00
680.00
700.00
720.00
740.00

N0051
Page 4

R32
200
Ohm-m
R18
200
Ohm-m
R8
200
Ohm-m
0
0
0

760.00
780.00
800.00
820.00
840.00
860.00
880.00
900.00
920.00
940.00
960.00
980.00
1000.00
1020.00
1040.00

Depth
1ft:240ft

SPR
100
ohm
Current
0
20
mA
Gamma
10
125
CPS
0

1 of 4 Local Wells (N3 per state geologist (different section # compared to N4: Sec. 18 vs Sec 20)
below below

N004
page 1 of 8

Electrical Log

BUREAU OF GEOLOGY

COMPANY: LAYNE CENTRAL
OWNER: CITY OF CANTON
COUNTY: MADISON STATE: MISSISSIPPI

SEC. 18 T. 9N R. ~~32~~ 3E FILE NO. N-4

LOCATION: SW/4, SE/4, SW/4

ELEVATION: ~~270'~~ 230 (TOPO) DATUM: Ground Level

ENGINEER:
ADDRESS:

DATE	10/25/85		
RUN NO	2		
DEPTH-DRILLER	2000'		
DEPTH-LOGGER	1994'		
BOTTOM READING	1994'		
TOP READING	40'		
CASING-DRILLER			
CASING-LOGGER	@	@	@
BIT SIZE	9·7/8"		
TYPE FLUID IN HOLE	Gel		
TIME SINCE CIRC.	30 min.		
RECORDED BY	B. Alsobrooks		
WITNESSED BY			

REMARKS:
BOG Has No Samples.

Fold Line

RESISTIVITY ohms. m^2/m

SHORT NORMAL — AM = 16" — 0 — 50 — 100

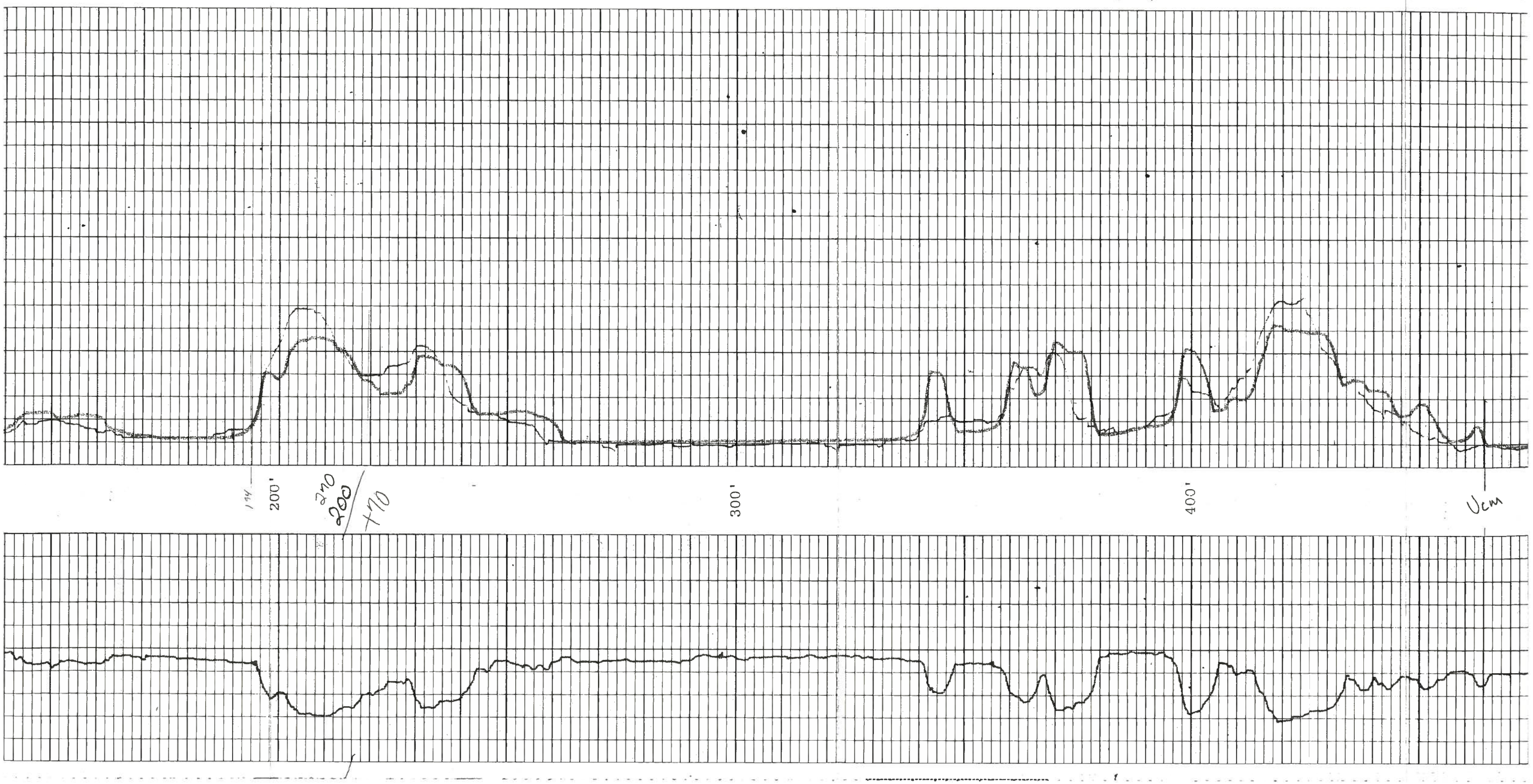
LONG NORMAL — AM = 64" — 0 — 50 — 100

DEPTHS

SPONTANEOUS POTENTIAL millivolts

- 100 + MV

N004 page2



N4 page 3

N 4 Page 4

800'

N

900'

Sh

1000'

Tal

N4 Page5

al

1100'

1200'

1300'

N4 Page 6

Meridian Sand

1400'

Wilcox →

1500'

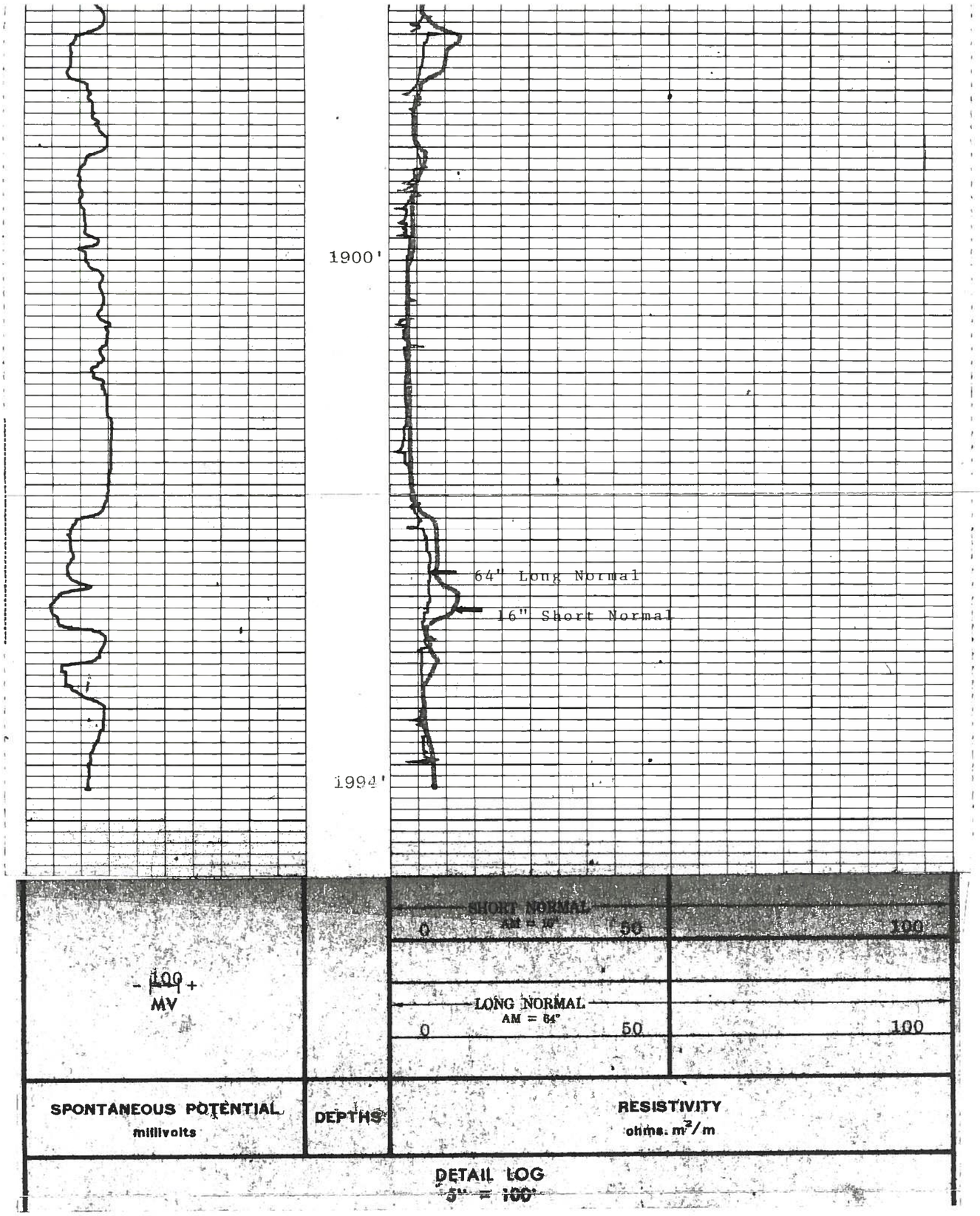
1600'

N4 Page 7

1700'

1800'

1900'


1900'
64" Long Normal
16" Short Normal
1994'
SHORT NORMAL
AM = 16"
0
50
100
LONG NORMAL
AM = 64"
0
50
100
- 100 +
MV
SPONTANEOUS POTENTIAL
millivolts
DEPTHS
RESISTIVITY
ohms. m²/m
DETAIL LOG
5" = 100'

NH Pages

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APPENDIX E

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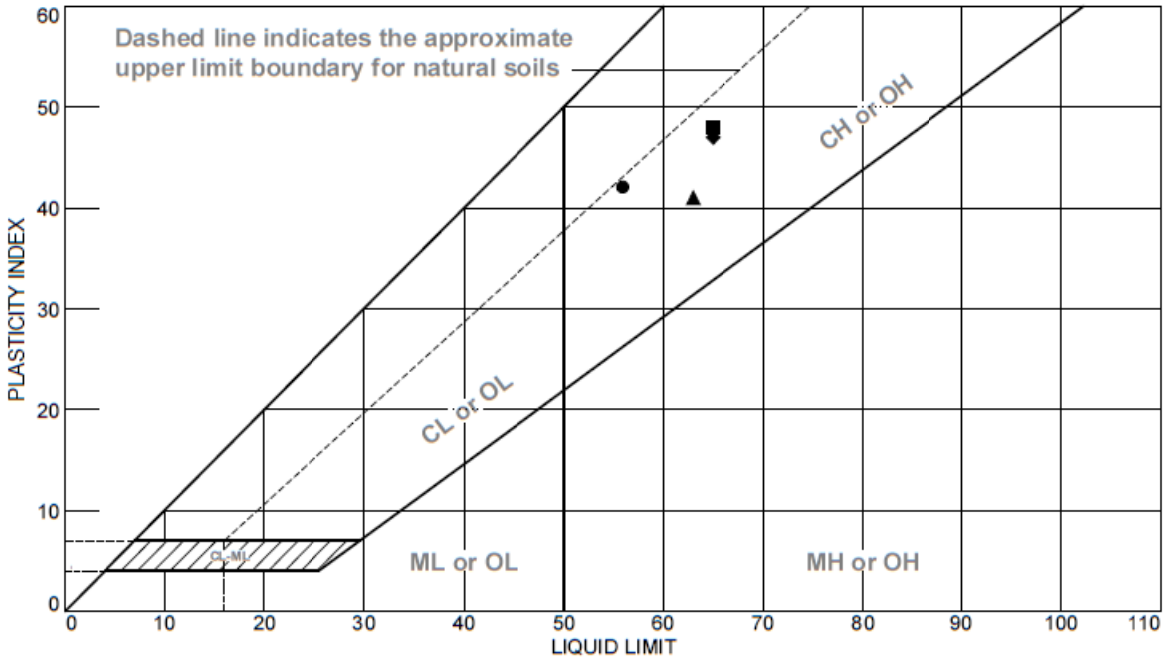
Figure E-1

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●		004-73			14	56	42	CH
■		004-33			17	65	48	CH
▲		001-206.5			22	63	41	
◆		001-38			18	65	47	

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving
Project No.: SH0455 **Tracking No.**

Geotechnical Properties of Clay
Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

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KEMRON
ENVIRONMENTAL SERVICES

1359-A Ellsworth Industrial Blvd • Atlanta, GA 30318 • TEL 404-636-0928 • FAX 404-636-7162

March 6, 2013

Black and Veatch Special Projects Corps
1120 Sanctuary Pkwy #200
Alpharetta, GA 30009-7631

Re: Final Letter Report of Geotechnical Testing
Southeastern Wood Preserve
KEMRON ATG Project #SH-0455
Black & Veatch Project # 12-0528-49065

Dear Mr. Profit:

Enclosed, please find the testing results for the 16 samples received on January 29, 2013 for Geotechnical testing.

This letter report includes the supporting laboratory data and the sample chain of custody. The following method was completed for the selected samples:

Particle Size Analysis with Hydrometer - ASTM D422
Atterberg Limits – ASTM 4318
Total Organic Content – Walkley Black Method
Moisture Content – ASTM D2216
Hydrolic Conductivity- ASTM D5084
Soil pH- EPA 9045
Bulk Density- ASTM D7263

KEMRON Environmental Services, Inc. appreciates this opportunity to provide laboratory services to Black & Veatch. If you have any questions, or require additional information, please contact me at (404) 636-0928.

Sincerely,

KEMRON Environmental Services Inc.

Robert J. Bachman
Laboratory Technician

Tommy A. Jordan, P.G.
Program Manager

Attachments: Table 1
Data Sheets
Chain of Custody

BLACK & VEATCH
SOUTHEASTERN WOOD PERSERVING
KEMRON PROJECT #SH-0455

TABLE 1
SUMMARY OF GEOTECHNICAL TESTING

Sample Identification	Sample Type	Soil Description	Soil Classfication (USCS)	Natural ASTM Moisture %	Dry Bulk Density pcf	Atterberg Limits			Grain Size Distribution				pH (s.u)	Organic Content %	Hydraulic Conductivity (K)		
						L.L.	P.L.	P.I.	% Gravel	% Sand	% Silt	% Clay			Bulk Density	Dry Density	Hydraulic Conductivity
001-18.5	D	Dark yellowish brown silt with sand	ML	29.06	119.9				0.0	27.8	49.4	22.8		0.19	99.2	77.8	8.40E-09
001-206.5	D					63	22	41						0.31			
001-298	D	Dark grayish brown poorly graded sand with silt	SP-SM						0.0	91.0	6.4	2.6					
001-31	D												8.40				
001-35	D	Gray fat clay	CH						0.0	1.6	17.0	81.4		0.13			
001-38	D			26.92		65	18	47							119.4	92.6	5.90E-09
001-72.5	D	Gray silty sand	SM						0.0	79.5	9.7	10.8		0.10			
002-113.5	D			29.40											127.2	98.8	1.60E-08
002-118	D	Very dark grayish brown silty sand	SM						0.0	61.2	22.9	15.9		1.21			
004-08	D				119.0									0.03			
004-15	D				116.7												
004-21	D	Olive yellow fat clay	CH						0.0	4.3	26.9	68.8	7.65	0.13			
004-30	D			52.87											105.4	69.1	1.40E-08
004-33	D	Olive gray fat clay	CH			65	17	48	0.0	6.6	36.0	57.4		0.26			
004-69	D	Olive gray silty sand	SM						0.8	66.8	13.9	18.5		0.23			
004-73	D	Black fat clay	CH			56	14	42	0.0	11.4	40.2	48.4		0.52			

Plasicidy Index (PI)
Liquid Limit (LL)
Plastic Limit (PL)
Organic Matter- Walkley Black

Moisture Content- ASTM D2216
Atterburg Limits- ASTM D4318
Grain Size Distribution- ASTM D422
Hydraulic Conductivity- ASTM D5084
Soil pH- EPA Method 9045

Notes: *Sample description and classification is based on visual classification where grain size and atterburg limits were not performed.
Color determined by Munsell's Color Chart for Soils

UNIT WEIGHT DETERMINATION

DATA SHEET
ASTM D7263

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-15
TESTING DATE:	01/31/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8725

UNIT WEIGHT (DENSITY)						
1. SAMPLE NO.	A		B		C	
2. WT OF MOLD (tare weight)	18.13	g	19.48	g	18.14	g
3. WT OF MOLD + SOIL	395.22	g	411.11	g	403.90	g
4. WT OF WET SOIL, W	377.09	g	391.63	g	385.76	g
5. DIAMETER OF SPECIMEN, D	2.00	in	2.00	in	2.00	in
6. HEIGHT OF SPECIMEN, H	4.00	in	4.00	in	4.00	in
7. VOLUME OF SPECIMEN	12.57	in^3	12.57	in^3	12.57	in^3
8. BULK UNIT WEIGHT	114.3	pcf	118.7	pcf	116.9	pcf
9. BULK SPECIFIC GRAVITY	1.8		1.9		1.9	
10. AVERAGE BULK UNIT WEIGHT	116.7	pcf				
11. AVERAGE BULK SPECIFIC GRAVITY	1.9					

UNIT WEIGHT DETERMINATION

DATA SHEET
ASTM D7263

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-08
TESTING DATE:	01/31/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8724

UNIT WEIGHT (DENSITY)						
1. SAMPLE NO.	A		B		C	
2. WT OF MOLD (tare weight)	18.13	g	19.49	g	18.13	g
3. WT OF MOLD + SOIL	409.82	g	418.71	g	405.08	g
4. WT OF WET SOIL, W	391.69	g	399.22	g	386.95	g
5. DIAMETER OF SPECIMEN, D	2.00	in	2.00	in	2.00	in
6. HEIGHT OF SPECIMEN, H	4.00	in	4.00	in	4.00	in
7. VOLUME OF SPECIMEN	12.57	in^3	12.57	in^3	12.57	in^3
8. BULK UNIT WEIGHT	118.7	pcf	121.0	pcf	117.3	pcf
9. BULK SPECIFIC GRAVITY	1.9		1.9		1.9	
10. AVERAGE BULK UNIT WEIGHT	119.0	pcf				
11. AVERAGE BULK SPECIFIC GRAVITY	1.9					

UNIT WEIGHT DETERMINATION

DATA SHEET
ASTM D7263

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-18.5
TESTING DATE:	01/31/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8715

UNIT WEIGHT (DENSITY)						
1. SAMPLE NO.	A		B		C	
2. WT OF MOLD (tare weight)	18.11	g	19.48	g	18.13	g
3. WT OF MOLD + SOIL	411.52	g	423.31	g	407.31	g
4. WT OF WET SOIL, W	393.41	g	403.83	g	389.18	g
5. DIAMETER OF SPECIMEN, D	2.00	in	2.00	in	2.00	in
6. HEIGHT OF SPECIMEN, H	4.00	in	4.00	in	4.00	in
7. VOLUME OF SPECIMEN	12.57	in^3	12.57	in^3	12.57	in^3
8. BULK UNIT WEIGHT	119.3	pcf	122.4	pcf	118.0	pcf
9. BULK SPECIFIC GRAVITY	1.9		2.0		1.9	
10. AVERAGE BULK UNIT WEIGHT	119.9	pcf				
11. AVERAGE BULK SPECIFIC GRAVITY	1.9					

MATERIAL pH

EPA METHOD 9045
DATA SHEET

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SHO 0455
TESTING DATE:	1/31/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8726

KEMRON SAMPLE No.		MATERIAL pH
1.	004-21	7.65
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
	AVERAGE:	7.65

MATERIAL pH

EPA METHOD 9045
DATA SHEET

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SHO 0455
TESTING DATE:	1/31/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8718

KEMRON SAMPLE No.		MATERIAL pH
1.	001-31	8.40
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
	AVERAGE:	8.40

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-73
TESTING DATE:	2/6/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8730

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	19.0 ml
2. Blank Titration (B)	20.6 ml
3. % Organic Matter	0.52 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-69
TESTING DATE:	2/6/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8729

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	19.8 ml
2. Blank Titration (B)	20.5 ml
3. % Organic Matter	0.23 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-33
TESTING DATE:	2/6/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8728

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	19.7 ml
2. Blank Titration (B)	20.5 ml
3. % Organic Matter	0.26 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-21
TESTING DATE:	2/6/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8726

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	20.0 ml
2. Blank Titration (B)	20.4 ml
3. % Organic Matter	0.13 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-08
TESTING DATE:	2/5/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8724

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	20.4 ml
2. Blank Titration (B)	20.5 ml
3. % Organic Matter	0.03 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	002-118
TESTING DATE:	2/5/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8723

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	16.3 ml
2. Blank Titration (B)	19.9 ml
3. % Organic Matter	1.21 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-72.5
TESTING DATE:	2/5/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8721

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	19.8 ml
2. Blank Titration (B)	20.1 ml
3. % Organic Matter	0.10 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-35
TESTING DATE:	2/6/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8719

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	20.4 ml
2. Blank Titration (B)	20.8 ml
3. % Organic Matter	0.13 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-206.5
TESTING DATE:	2/5/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8716

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	18.8 ml
2. Blank Titration (B)	19.7 ml
3. % Organic Matter	0.31 %

PERCENT ORGANIC MATTER

Walkely Black Method

By Calculation

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-18.5
TESTING DATE:	2/4/2013
TESTED BY:	TNR/RPH
TRACKING CODE:	8715

Percent Organic Matter Calculation	
SAMPLE No.	
1. Sample Titration (S)	21.0 ml
2. Blank Titration (B)	21.6 ml
3. % Organic Matter	0.19 %

MOISTURE CONTENT DETERMINATION

REPORT FORM
ASTM D 2216

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	004-30
TESTING DATE:	01/31/13
TESTED BY:	TNR/RPH
TRACKING CODE:	8727

MOISTURE CONTENT (Dry & Wet Basis)			
1. MOISTURE TIN NO.	A	B	C
2. WT MOISTURE TIN (tare weight)	1.2710 g	1.2905 g	1.2709 g
3. WT WET SOIL + TARE	11.7538 g	11.9856 g	11.6086 g
4. WT DRY SOIL + TARE	8.1052 g	8.2705 g	8.0727 g
5. WT WATER, Ww	3.6486 g	3.7151 g	3.5359 g
6. WT DRY SOIL, Ws	6.8342 g	6.9800 g	6.8018 g
7. ASTM MOISTURE CONTENT	53.39 %	53.22 %	51.98 %
8. PERCENT SOLIDS	65.19 %	65.26 %	65.80 %
9. AVERAGE ASTM MOISTURE CONTENT	52.87 %		
10. AVERAGE PERCENT SOLIDS	65.42 %		

MOISTURE CONTENT DETERMINATION

REPORT FORM
ASTM D 2216

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	002-113.5
TESTING DATE:	01/31/13
TESTED BY:	TNR/RPH
TRACKING CODE:	8722

MOISTURE CONTENT (Dry & Wet Basis)			
1. MOISTURE TIN NO.	A	B	C
2. WT MOISTURE TIN (tare weight)	1.2696 g	1.2748 g	1.2657 g
3. WT WET SOIL + TARE	11.5190 g	11.6278 g	11.9147 g
4. WT DRY SOIL + TARE	8.7905 g	9.6026 g	9.6109 g
5. WT WATER, Ww	2.7285 g	2.0252 g	2.3038 g
6. WT DRY SOIL, Ws	7.5209 g	8.3278 g	8.3452 g
7. ASTM MOISTURE CONTENT	36.28 %	24.32 %	27.61 %
8. PERCENT SOLIDS	73.38 %	80.44 %	78.37 %
9. AVERAGE ASTM MOISTURE CONTENT	29.40 %		
10. AVERAGE PERCENT SOLIDS	77.39 %		

MOISTURE CONTENT DETERMINATION

REPORT FORM
ASTM D 2216

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-38
TESTING DATE:	01/31/13
TESTED BY:	TNR/RPH
TRACKING CODE:	8720

MOISTURE CONTENT (Dry & Wet Basis)						
1. MOISTURE TIN NO.	A		B		C	
2. WT MOISTURE TIN (tare weight)	1.2702	g	1.2914	g	1.3012	g
3. WT WET SOIL + TARE	11.2260	g	11.2642	g	11.2665	g
4. WT DRY SOIL + TARE	9.1360	g	8.9404	g	9.3507	g
5. WT WATER, Ww	2.0900	g	2.3238	g	1.9158	g
6. WT DRY SOIL, Ws	7.8658	g	7.6490	g	8.0495	g
7. ASTM MOISTURE CONTENT	26.57	%	30.38	%	23.80	%
8. PERCENT SOLIDS	79.01	%	76.70	%	80.78	%
9. AVERAGE ASTM MOISTURE CONTENT	26.92	%				
10. AVERAGE PERCENT SOLIDS	78.83	%				

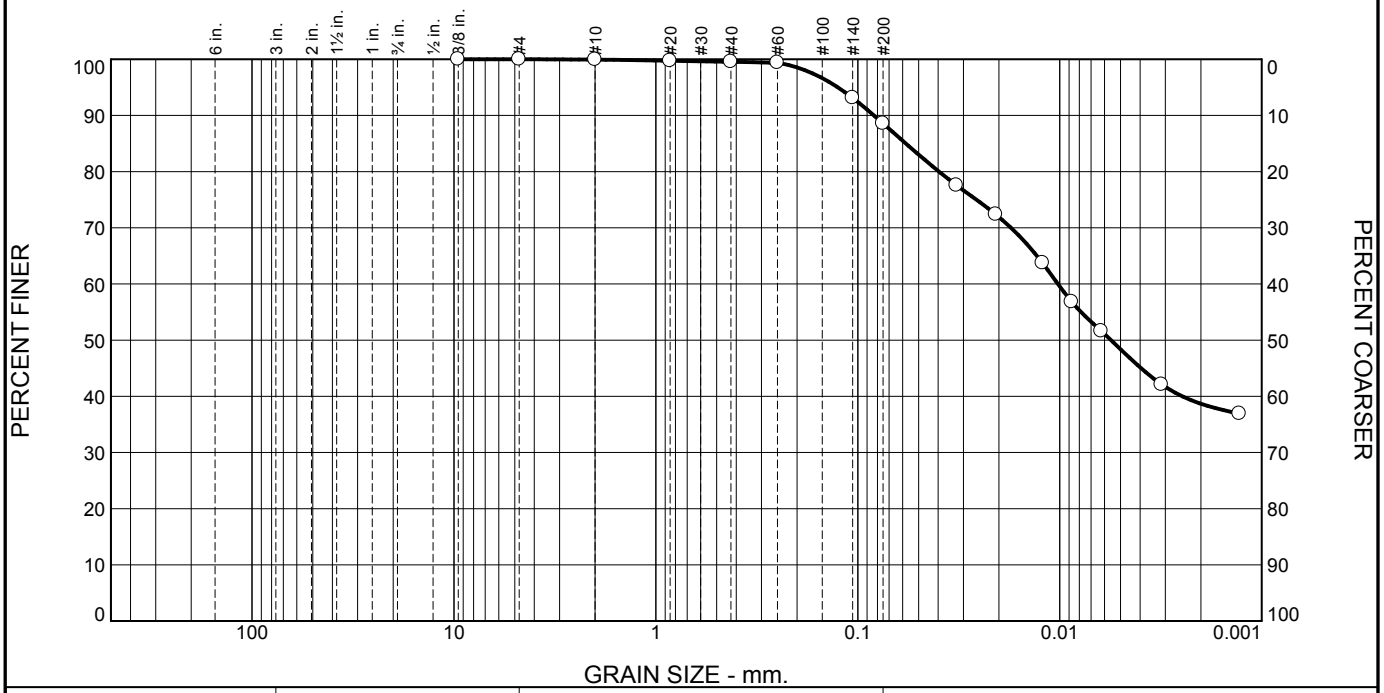
MOISTURE CONTENT DETERMINATION

REPORT FORM
ASTM D 2216

PROJECT:	Southeastern Wood Preserving
PROJECT No.:	SH 0455
SAMPLE No.:	001-18.5
TESTING DATE:	01/31/13
TESTED BY:	TNR/RPH
TRACKING CODE:	8715

MOISTURE CONTENT (Dry & Wet Basis)			
1. MOISTURE TIN NO.	A	B	C
2. WT MOISTURE TIN (tare weight)	1.2712 g	1.2756 g	1.2892 g
3. WT WET SOIL + TARE	11.2507 g	11.5387 g	11.3568 g
4. WT DRY SOIL + TARE	8.9509 g	9.2500 g	9.1221 g
5. WT WATER, Ww	2.2998 g	2.2887 g	2.2347 g
6. WT DRY SOIL, Ws	7.6797 g	7.9744 g	7.8329 g
7. ASTM MOISTURE CONTENT	29.95 %	28.70 %	28.53 %
8. PERCENT SOLIDS	76.95 %	77.70 %	77.80 %
9. AVERAGE ASTM MOISTURE CONTENT	29.06 %		
10. AVERAGE PERCENT SOLIDS	77.49 %		

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	0.3	11.0	40.2	48.4

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.6		
#60	99.4		
#140	93.1		
#200	88.6		
0.0324 mm.	77.6		
0.0207 mm.	72.4		
0.0122 mm.	63.7		
0.0087 mm.	56.8		
0.0062 mm.	51.6		
0.0031 mm.	42.1		
0.0013 mm.	36.9		

* (no specification provided)

Material Description

Black fat clay

Atterberg Limits (ASTM D 4318)

PL= 14 **LL=** 56 **PI=** 42

Classification

USCS (D 2487)= CH **AASHTO (M 145)=** A-7-6(39)

Coefficients

D_{90}= D_{85}= D_{60}= 0.0102
D_{50}= 0.0056 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Remarks

F.M.=0.04

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

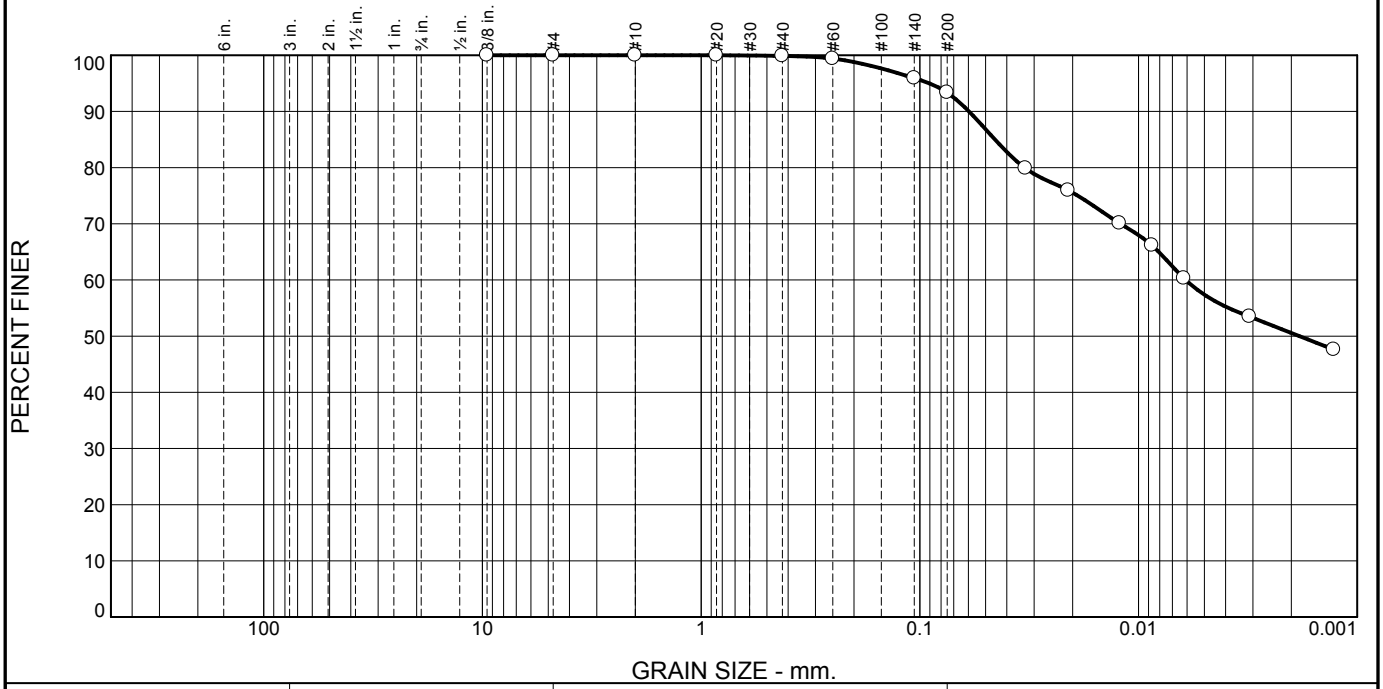
Sample Number: 004-73 **Date Sampled:** 11/8/2012

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8730

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	6.5	36.0	57.4

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.9		
#60	99.4		
#140	95.9		
#200	93.4		
0.0329 mm.	79.9		
0.0209 mm.	75.9		
0.0122 mm.	70.1		
0.0087 mm.	66.2		
0.0062 mm.	60.3		
0.0031 mm.	53.5		
0.0013 mm.	47.6		

* (no specification provided)

Material Description

Olive gray fat clay

Atterberg Limits (ASTM D 4318)

PL= 17 **LL=** 65 **PI=** 48

Classification

USCS (D 2487)= CH **AASHTO (M 145)=** A-7-6(48)

Coefficients

D_{90}= 0.0596 D_{85}= 0.0453 D_{60}= 0.0061
D_{50}= 0.0018 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Remarks

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

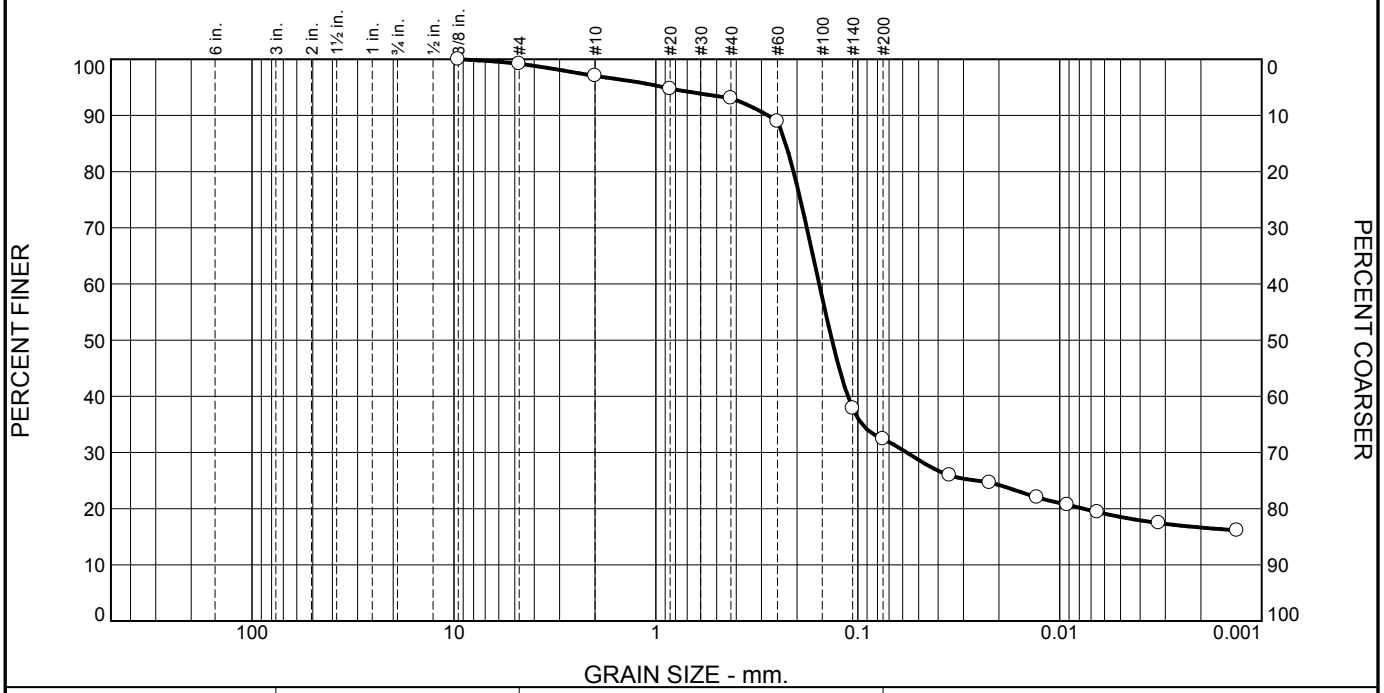
Sample Number: 004-33 **Date Sampled:** 11/8/2012

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Figure** 8728

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.8	2.2	3.9	60.7	13.9	18.5

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	99.2		
#10	97.0		
#20	94.7		
#40	93.1		
#60	89.0		
#140	37.8		
#200	32.4		
0.0351 mm.	25.9		
0.0223 mm.	24.6		
0.0129 mm.	22.0		
0.0092 mm.	20.7		
0.0065 mm.	19.4		
0.0032 mm.	17.4		
0.0013 mm.	16.1		

* (no specification provided)

Material Description

Olive gray silty sand

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.1554
D_{50}= 0.1343 D_{30}= 0.0573 D_{15}=
D_{10}= C_u= C_c=

Remarks

F.M.=0.66

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

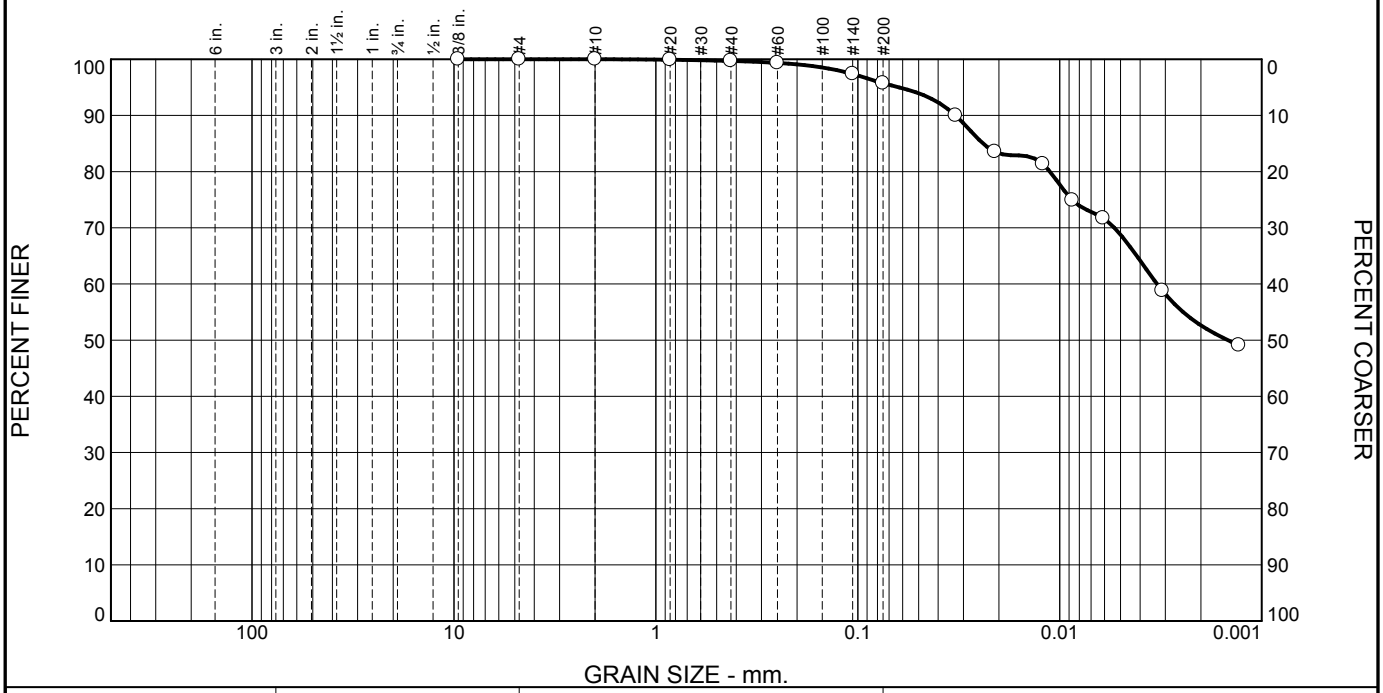
Sample Number: 004-69 **Date Sampled:** 11/8/2012

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8729

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.3	4.0	26.9	68.8

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.7		
#60	99.4		
#140	97.4		
#200	95.7		
0.0328 mm.	90.0		
0.0209 mm.	83.5		
0.0121 mm.	81.4		
0.0087 mm.	74.9		
0.0061 mm.	71.7		
0.0031 mm.	58.8		
0.0013 mm.	49.1		

* (no specification provided)

Material Description

Olive yellow fat clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= CH **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.0033
D_{50}= 0.0015 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Remarks

F.M.=0.02

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

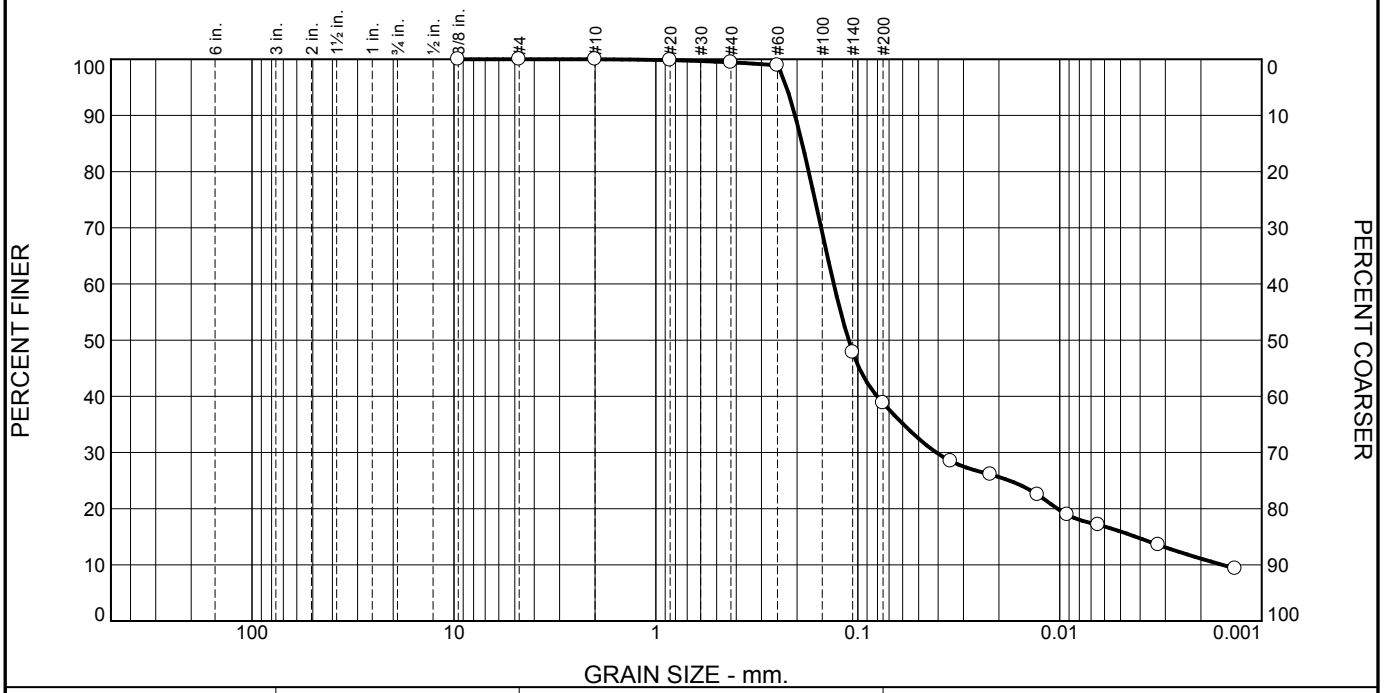
Sample Number: 004-21 **Date Sampled:** 11/8/2012

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8726

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.5	60.7	22.9	15.9

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.5		
#60	98.9		
#140	47.8		
#200	38.8		
0.0347 mm.	28.5		
0.0221 mm.	26.1		
0.0129 mm.	22.5		
0.0092 mm.	18.9		
0.0064 mm.	17.1		
0.0033 mm.	13.5		
0.0014 mm.	9.3		

* (no specification provided)

Material Description

Very dark grayish brown silty sand

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.1316
D_{50}= 0.1110 D_{30}= 0.0408 D_{15}= 0.0042
D_{10}= 0.0016 C_u= 83.95 C_c= 8.09

Remarks

F.M.=0.32

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

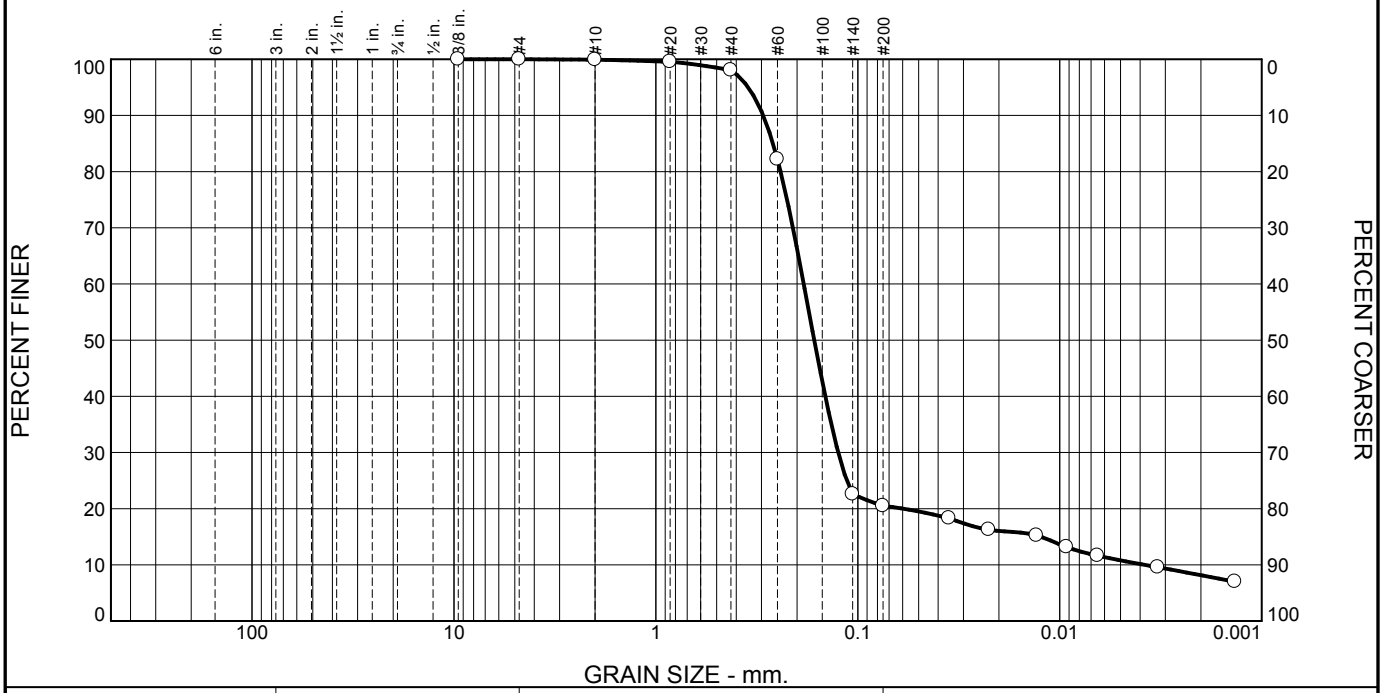
Sample Number: 002-118 **Date Sampled:** 1/13/2013

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8723

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.1	1.9	77.5	9.7	10.8

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	99.9		
#20	99.5		
#40	98.0		
#60	82.2		
#140	22.6		
#200	20.5		
0.0353 mm.	18.3		
0.0225 mm.	16.2		
0.0130 mm.	15.2		
0.0093 mm.	13.2		
0.0065 mm.	11.6		
0.0033 mm.	9.6		
0.0014 mm.	7.0		

* (no specification provided)

Material Description

Gray silty sand

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.1853
D_{50}= 0.1644 D_{30}= 0.1251 D_{15}= 0.0124
D_{10}= 0.0038 C_u= 48.89 C_c= 22.28

Remarks

F.M.=0.68

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJV

Title: Program Manager

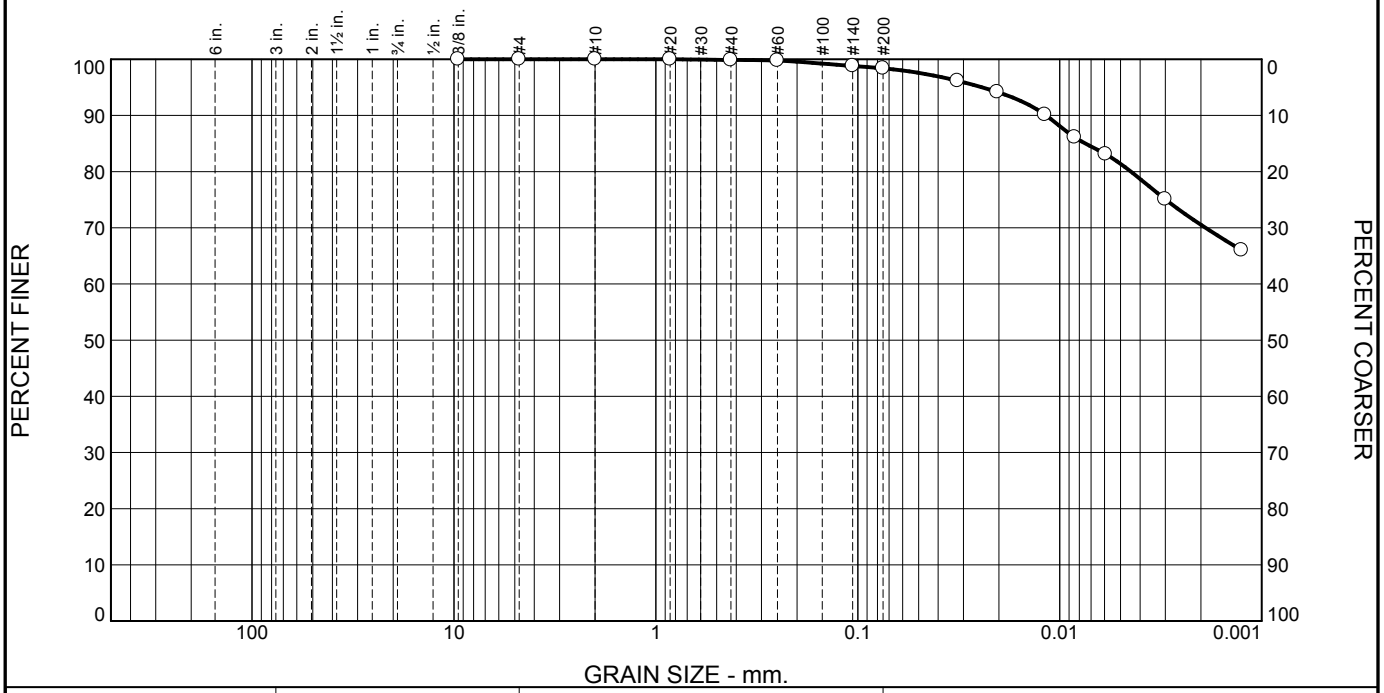
Sample Number: 001-72.5 **Date Sampled:** 1/10/2013

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8721

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.1	1.5	17.0	81.4

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.9		
#60	99.8		
#140	98.8		
#200	98.4		
0.0321 mm.	96.2		
0.0204 mm.	94.2		
0.0118 mm.	90.1		
0.0084 mm.	86.1		
0.0059 mm.	83.1		
0.0030 mm.	75.1		
0.0013 mm.	66.0		

* (no specification provided)

Material Description

Gray fat clay

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= CH **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}=
D_{50}= D_{30}= D_{15}=
D_{10}= C_u= C_c=

Remarks

F.M.=0.01

Date Received: 1/29/2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

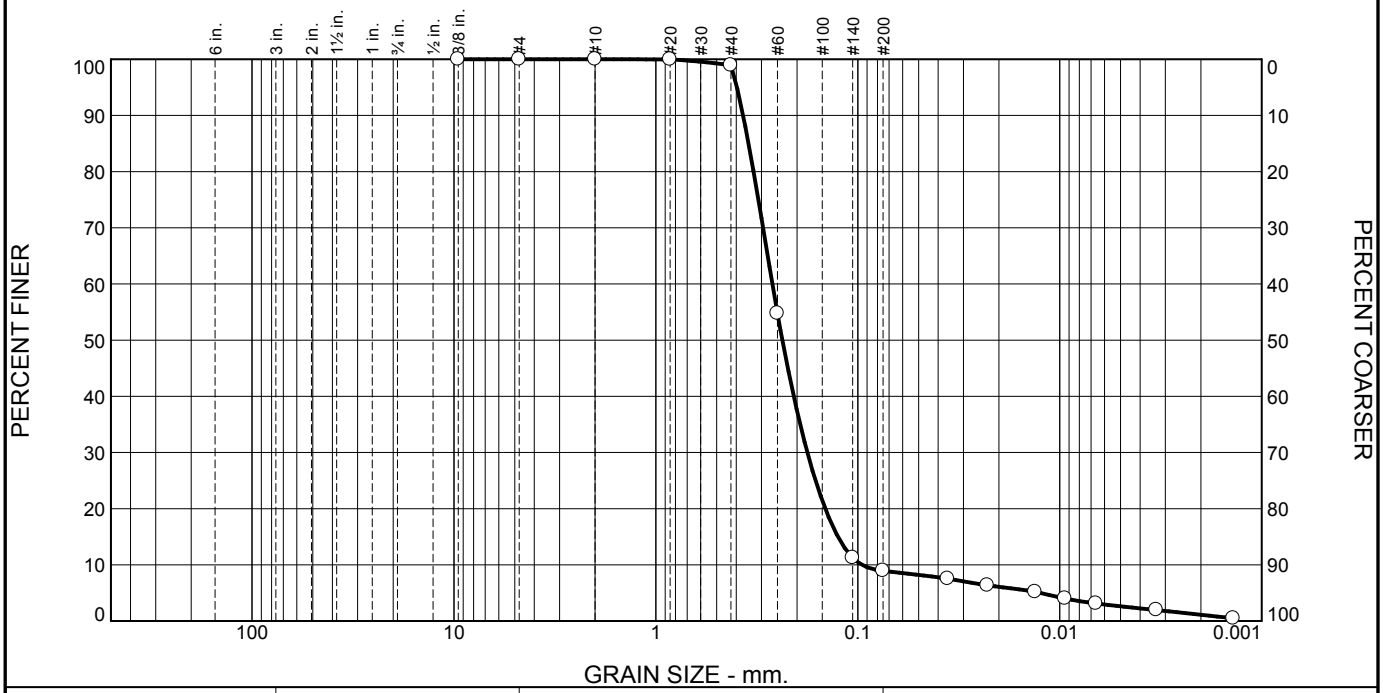
Sample Number: 001-35 **Date Sampled:** 1/8/2013

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8719_gr

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	1.1	89.9	6.4	2.6

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	98.9		
#60	54.8		
#140	11.3		
#200	9.0		
0.0358 mm.	7.5		
0.0228 mm.	6.4		
0.0132 mm.	5.2		
0.0094 mm.	4.0		
0.0066 mm.	3.1		
0.0033 mm.	2.0		
0.0014 mm.	0.5		

* (no specification provided)

Material Description

Dark grayish brown poorly graded sand with silt

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.2650
D_{50}= 0.2364 D_{30}= 0.1778 D_{15}= 0.1255
D_{10}= 0.0955 C_u= 2.78 C_c= 1.25

Remarks

F.M.=1.07

Date Received: 1/29/2012 **Date Tested:** 1/30/2012

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

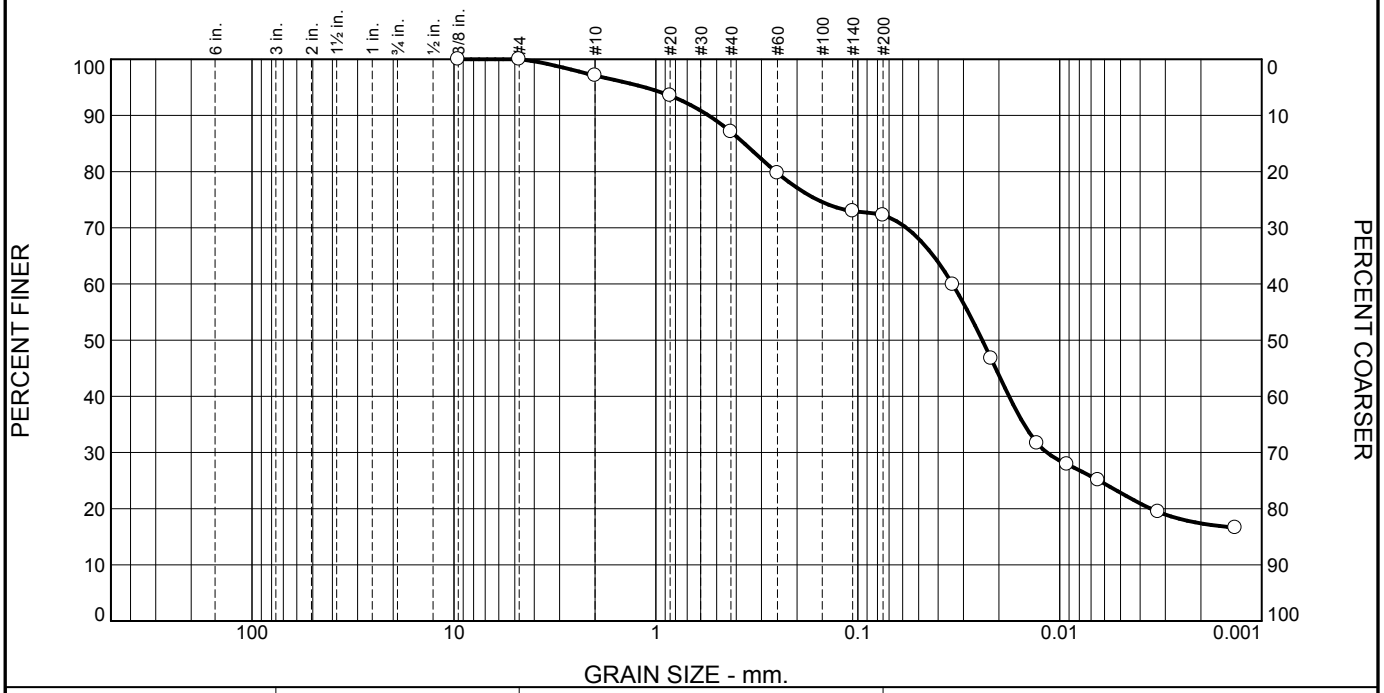
Sample Number: 001-298 **Date Sampled:** 1/10/2013

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8717

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	2.9	10.0	14.9	49.4	22.8

TEST RESULTS (ASTM D 422)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	100.0		
#10	97.1		
#20	93.5		
#40	87.1		
#60	79.7		
#140	73.0		
#200	72.2		
0.0339 mm.	59.9		
0.0219 mm.	46.7		
0.0129 mm.	31.7		
0.0092 mm.	27.9		
0.0065 mm.	25.1		
0.0033 mm.	19.4		
0.0014 mm.	16.6		

* (no specification provided)

Material Description

Dark yellowish brown silt with sand

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= **AASHTO (M 145)=**

Coefficients

D_{90}= D_{85}= D_{60}= 0.0340
D_{50}= 0.0242 D_{30}= 0.0116 D_{15}=
D_{10}= C_u= C_c=

Remarks

F.M.=0.59

Date Received: 1-29-2013 **Date Tested:** 1/30/2013

Tested By: TNR/RPH

Checked By: TAJ

Title: Program Manager

Sample Number: 001-18.5 **Date Sampled:** 1-8-2013

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No: SH0455 **Tracking No.** 8715

PERMEABILITY ASTM D5084

SPECIMEN CONDITIONS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/13		

MOISTURE CONTENT (Dry Basis)	***INITIAL***	***FINAL***
1. MOISTURE TIN NO.		
2. WT MOISTURE TIN (tare weight)	0.00 ***g***	211.64 ***g***
3. WT WET SOIL + TARE	274.91 ***g***	482.25 ***g***
4. WT DRY SOIL + TARE	180.17 ***g***	391.81 ***g***
5. WT WATER, Ww	94.74 g	90.44 g
6. WT DRY SOIL, Ws	180.17 g	180.17 g
7. MOISTURE CONTENT, W	52.58 %	50.20 %

SOIL SPECIMEN DIMENSIONS				
TRIPLICATE	***DIAMETER***		***HEIGHT***	
ANALYSES	***INITIAL***	***FINAL***	***INITIAL***	***FINAL***
No. 1	***3.07 in.***	***2.81 in.***	***1.41 in.***	***1.49 in.***
No. 2	***2.97 in.***	***2.91 in.***	***1.45 in.***	***1.51 in.***
No. 3	***2.91 in.***	***2.79 in.***	***1.41 in.***	***1.54 in.***
Average	2.98 in.	2.84 in.	1.42 in.	1.51 in.

SPECIMEN CONDITIONS	***INITIAL***	***FINAL***
Specimen WT, Wo	***274.91 g***	***270.61 g***
Area, Ao	6.98 in^2	6.32 in^2
Volume, Vo	9.93 in^3	9.57 in^3
Bulk Unit Weight	105.4 lb/ft^3	107.7 lb/ft^3
Dry Unit Weight	69.1 lb/ft^3	71.7 lb/ft^3

PERMEABILITY ASTM D5084

BACK-PRESSURE SATURATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/13		

TEST	TIME	TESTED	TEST PRESSURES (psi)						
			APPLIED		PORE		PRESSURE CHANGE		
DATE	(military)	BY	CELL	BACK	SAT.	TEST	CELL	PORE	B-Value
02/11/13	13 : 30	RJB	7.0	5.0	5.0				
02/11/13	14 : 42	RJB	17.0	15.0	15.1	13.6	10.0	8.6	0.86
02/11/13	15 : 25	RJB	27.0	25.0	25.1	24.1	10.0	9.0	0.90
02/12/13	9 : 55	RJB	37.0	35.0	35.2	34.8	10.0	9.7	0.97
02/12/13	11 : 0	RJB	47.0	45.0	45.1	44.9	10.0	9.7	0.97
02/12/13	12 : 0	RJB	57.0	55.0	*	*	10.0	#VALUE!	#VALUE!
02/12/13	12 : 1	RJB	47.0	45.0	*	*	*	*	*

* Saturation check - no data available.

PERMEABILITY ASTM D5084

SPECIMEN CONSOLIDATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	RJB
PROJECT No.:	SH0455	8727_PM
SAMPLE No.:	004-30	4
TEST DATE:	2/11/13	

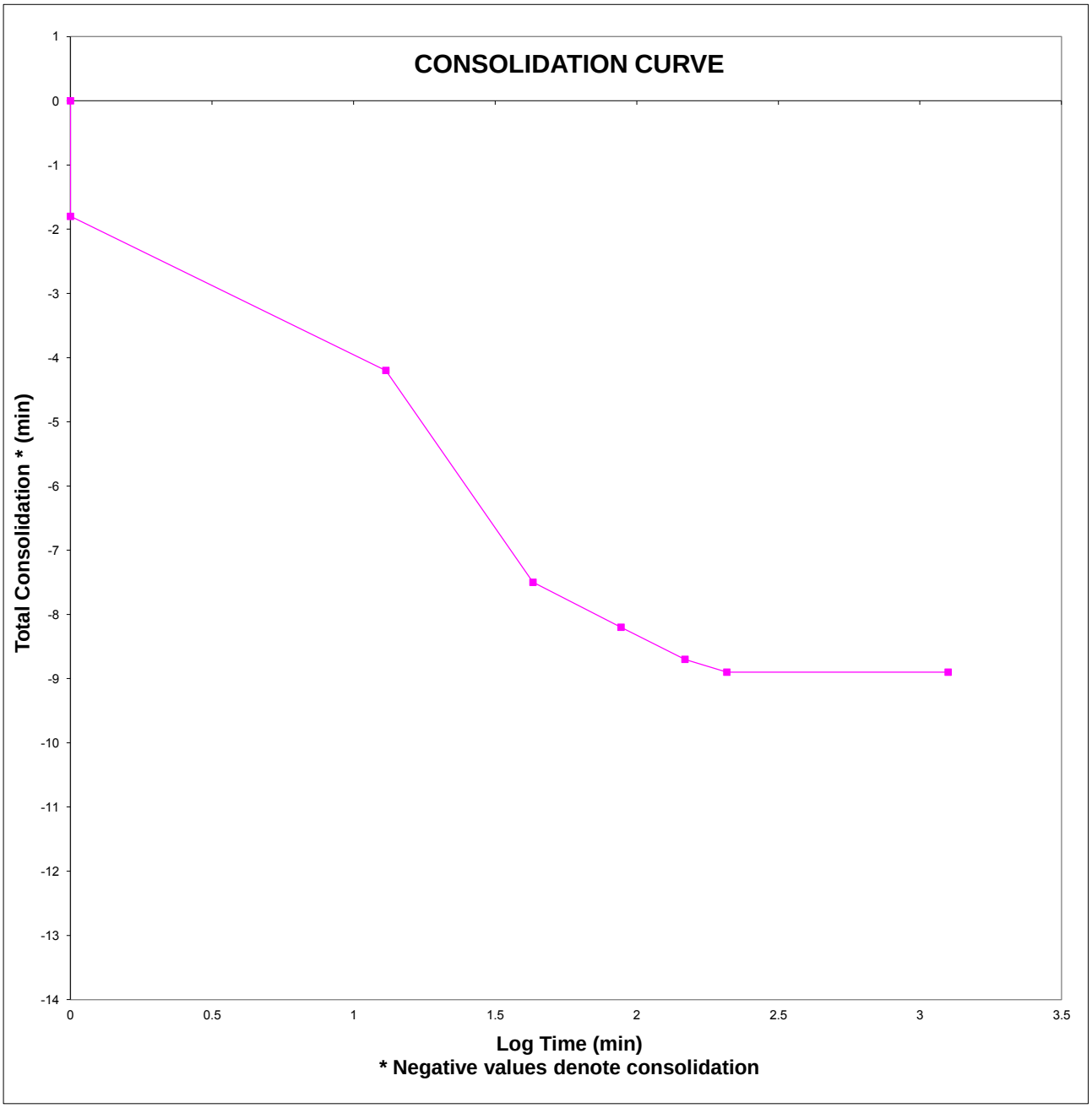
CELL PRESSURE: 55 psi **BACK PRESSURE:** 45 psi **EFFECTIVE STRESS:** 10 psi

TEST DATE	*TESTED BY*	*TIME (Military)*	*ELAPSED TIME (minutes)*	*TOTAL TIME (minutes)*	*TOTAL TIME (Log)*	*SPECIMEN CONSOLIDATION (ML)*		
						READING		*ACTUAL*
						BOTTOM	*TOP*	*TOTAL (Ct)*
2 / 12 / 13	RJB	12 : 2	0	0	0	25.0	25.0	0.0
2 / 12 / 13	RJB	12 : 3	1	1	0.00	24.0	24.2	1.8
2 / 12 / 13	RJB	12 : 15	12	13	1.11	23.0	22.8	4.2
2 / 12 / 13	RJB	12 : 45	30	43	1.63	21.5	21.0	7.5
2 / 12 / 13	RJB	13 : 30	45	88	1.94	21.0	20.8	8.2
2 / 12 / 13	RJB	14 : 30	60	148	2.17	20.8	20.5	8.7
2 / 12 / 13	RJB	15 : 30	60	208	2.32	20.8	20.3	8.9
2 / 13 / 13	RJB	9 : 0	1050	1258	3.10	20.8	20.3	8.9

PERMEABILITY ASTM D5084

CONSOLIDATION CURVE

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/13		



PERMEABILITY ASTM D5084

TEST DATA

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/2013		

DATE	TESTED BY	TIME (military)	ELAPSED TIME (minutes)	HYDRAULIC HEAD (cm)		TEMP. C°	GAUGE PRESSURE (psi)		
				INFLUENT	EFFLUENT		CELL	INFLUENT	EFFLUENT
2 / 13 / 13	RJB	10 : 35	0	0.0	25.0	20.0	55.0	45.0	45.0
2 / 13 / 13	RJB	12 : 8	RESET	0.0	25.0	20.0	55.0	45.0	44.0
2 / 13 / 13	RJB	13 : 4	RESET	0.0	25.0	20.0	55.0	45.0	43.0
2 / 14 / 13	RJB	7 : 45	1121	1.9	23.1	20.0	55.0	45.0	43.0
2 / 14 / 13	RJB	14 : 40	415	2.6	22.4	20.0	55.0	45.0	43.0
2 / 15 / 13	RJB	8 : 36	1076	4.6	20.4	20.0	55.0	45.0	43.0
2 / 15 / 13	RJB	14 : 50	374	5.2	19.8	20.0	55.0	45.0	43.0

PERMEABILITY ASTM D5084

TEST DATA (continued)

PROJECT:	SOUTHEASTERN WOOD PRESE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/13		

ELAPSED TIME (minutes)	*HYDRAULIC HEAD DIFFERENCE (cm)*		*EFFLUENT - INFLUENT RATIO*	*HYDRAULIC GRADIENT (cm/cm)*	*HYDRAULIC CONDUCTIVITY (cm/sec)*	
	INFLUENT	*EFFLUENT*			*@ Temp.*	*@ 20° C*
RESET				6.915		
RESET				26.371		
RESET				45.828		
1121	1.9	1.9	1.00	44.777	1.39E-08	1.39E-08
415	0.7	0.7	1.00	44.390	1.40E-08	1.41E-08
1076	2.0	2.0	1.00	43.283	1.57E-08	1.58E-08
374	0.6	0.6	1.00	42.951	1.38E-08	1.38E-08

PERMEABILITY ASTM D5084

SUMMARY OF RESULTS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8727_PM
SAMPLE No.:	004-30	EQUIPMENT No.:	4
TEST DATE:	2/11/13		

TESTING PARAMETER	INITIAL	FINAL
BULK UNIT WEIGHT	105.4 lb/ft³	107.7 lb/ft³
DRY UNIT WEIGHT	69.1 lb/ft³	71.7 lb/ft³
MOISTURE CONTENT	52.6 %	50.2 %
PERMEABILITY @ 20°C	1.4E-08 cm/sec	

PERMEABILITY ASTM D5084

SPECIMEN CONDITIONS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/13		

MOISTURE CONTENT (Dry Basis)	***INITIAL***	***FINAL***
1. MOISTURE TIN NO.		
2. WT MOISTURE TIN (tare weight)	0.00 ***g***	211.32 ***g***
3. WT WET SOIL + TARE	445.55 ***g***	643.00 ***g***
4. WT DRY SOIL + TARE	346.10 ***g***	557.42 ***g***
5. WT WATER, Ww	99.45 g	85.58 g
6. WT DRY SOIL, Ws	346.10 g	346.10 g
7. MOISTURE CONTENT, W	28.73 %	24.73 %

SOIL SPECIMEN DIMENSIONS				
TRIPLICATE	***DIAMETER***		***HEIGHT***	
ANALYSES	***INITIAL***	***FINAL***	***INITIAL***	***FINAL***
No. 1	***2.78 in.***	***2.82 in.***	***2.10 in.***	***2.15 in.***
No. 2	***2.90 in.***	***2.88 in.***	***2.05 in.***	***2.12 in.***
No. 3	***2.92 in.***	***2.86 in.***	***2.04 in.***	***2.22 in.***
Average	2.87 in.	2.85 in.	2.07 in.	2.16 in.

SPECIMEN CONDITIONS	***INITIAL***	***FINAL***
Specimen WT, Wo	***445.55 g***	***431.71 g***
Area, Ao	6.46 in^2	6.38 in^2
Volume, Vo	13.34 in^3	13.78 in^3
Bulk Unit Weight	127.2 lb/ft^3	119.3 lb/ft^3
Dry Unit Weight	98.8 lb/ft^3	95.7 lb/ft^3

PERMEABILITY ASTM D5084

BACK-PRESSURE SATURATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/13		

TEST	TIME	TESTED	TEST PRESSURES (psi)						
			APPLIED		PORE		PRESSURE CHANGE		
DATE	(military)	BY	CELL	BACK	SAT.	TEST	CELL	PORE	B-Value
02/25/13	11 : 32	RJB	7.0	5.0	5.3				
02/25/13	12 : 22	RJB	17.0	15.0	15.3	13.7	10.0	8.4	0.84
02/25/13	13 : 15	RJB	27.0	25.0	25.3	24.8	10.0	9.5	0.95
02/25/13	14 : 10	RJB	37.0	35.0	35.3	35.0	10.0	9.7	0.97
02/25/13	14 : 38	RJB	47.0	45.0	45.3	*	*	*	*
02/25/13	15 : 10	RJB	57.0	55.0	*	*	*	*	*
02/25/13	15 : 11	RJB	47.0	45.0	*	*	*	*	*

* Saturation check - no data available.

PERMEABILITY ASTM D5084

SPECIMEN CONSOLIDATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	RJB
PROJECT No.:	SH0455	8722_PM
SAMPLE No.:	002_113.5	2
TEST DATE:	2/11/13	

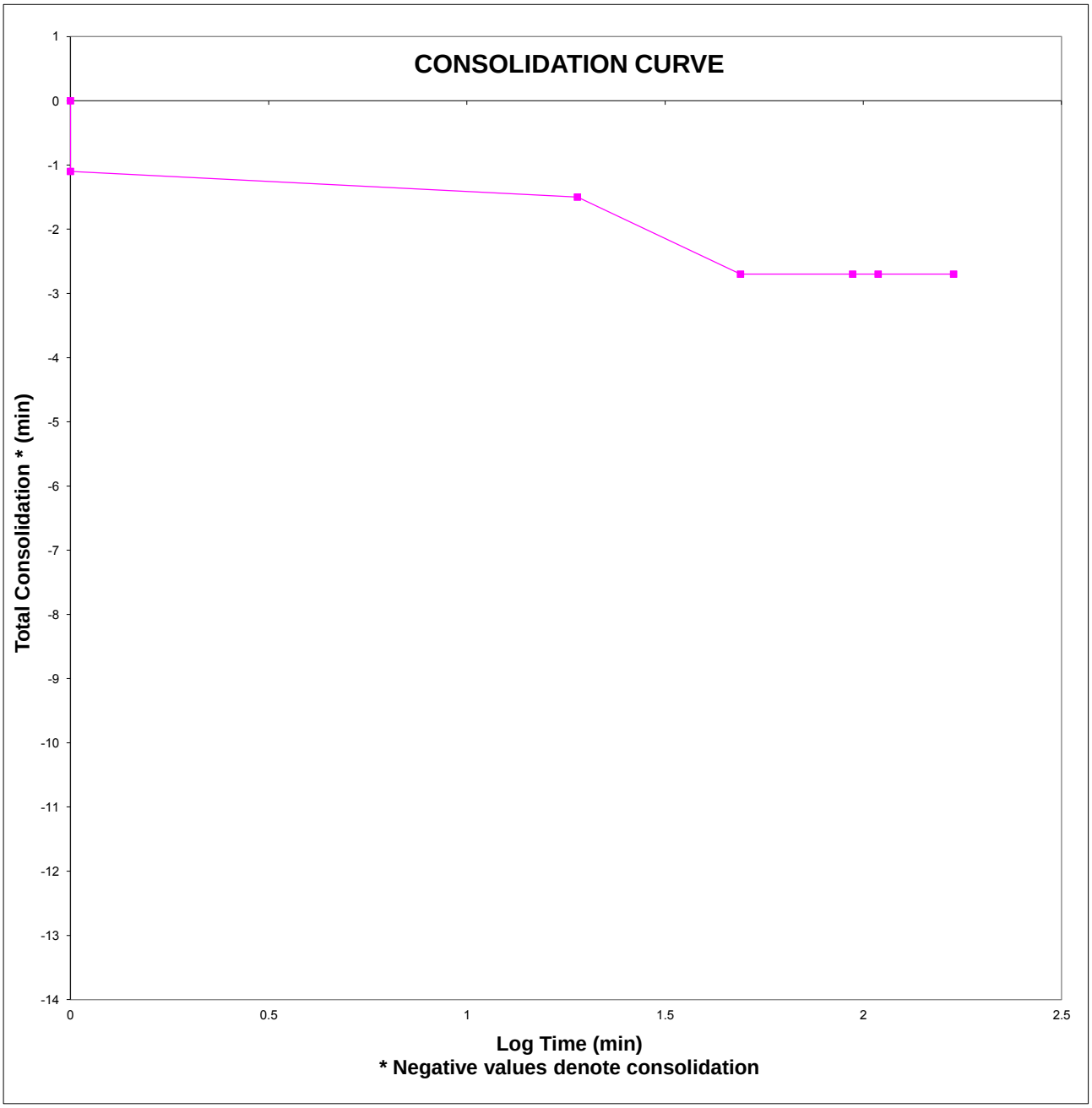
CELL PRESSURE: 55 psi **BACK PRESSURE:** 45 psi **EFFECTIVE STRESS:** 10 psi

TEST DATE	*TESTED BY*	*TIME (Military)*	*ELAPSED TIME (minutes)*	*TOTAL TIME (minutes)*	*TOTAL TIME (Log)*	*SPECIMEN CONSOLIDATION (ML)*		
						READING		*ACTUAL*
						BOTTOM	*TOP*	*TOTAL (Ct)*
2 / 25 / 13	RJB	15 : 11	0	0	0	25.0	25.0	0.0
2 / 25 / 13	RJB	15 : 12	1	1	0.00	24.4	24.5	1.1
2 / 25 / 13	RJB	15 : 30	18	19	1.28	24.0	24.5	1.5
2 / 25 / 13	RJB	16 : 0	30	49	1.69	22.8	24.5	2.7
2 / 25 / 13	RJB	16 : 45	45	94	1.97	22.8	24.5	2.7
2 / 25 / 13	RJB	17 : 0	15	109	2.04	22.8	24.5	2.7
2 / 25 / 13	RJB	18 : 0	60	169	2.23	22.8	24.5	2.7

PERMEABILITY ASTM D5084

CONSOLIDATION CURVE

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/13		



PERMEABILITY ASTM D5084

TEST DATA

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/2013		

DATE	TESTED BY	TIME (military)	ELAPSED TIME (minutes)	HYDRAULIC HEAD (cm)		TEMP. C°	GAUGE PRESSURE (psi)		
				INFLUENT	EFFLUENT		CELL	INFLUENT	EFFLUENT
2 / 26 / 13	RJB	9 : 15	0	0.0	25.0	20.0	55.0	45.0	45.0
2 / 26 / 13	RJB	10 : 45	RESET	0.0	25.0	20.0	55.0	45.0	44.0
2 / 26 / 13	RJB	12 : 19	RESET	0.0	25.0	20.0	55.0	45.0	43.0
2 / 27 / 13	RJB	7 : 55	1176	1.5	23.5	20.0	55.0	45.0	43.0
2 / 28 / 13	RJB	8 : 12	1457	3.3	21.7	20.0	55.0	45.0	43.0
2 / 28 / 13	RJB	15 : 5	413	3.8	21.2	20.0	55.0	45.0	43.0
3 / 1 / 13	RJB	7 : 45	1000	5.0	20.0	20.0	55.0	45.0	43.0

PERMEABILITY ASTM D5084

TEST DATA (continued)

PROJECT:	SOUTHEASTERN WOOD PRESE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/13		

ELAPSED TIME (minutes)	*HYDRAULIC HEAD DIFFERENCE (cm)*		*EFFLUENT - INFLUENT RATIO*	*HYDRAULIC GRADIENT (cm/cm)*	*HYDRAULIC CONDUCTIVITY (cm/sec)*	
	INFLUENT	*EFFLUENT*			*@ Temp.*	*@ 20° C*
RESET				4.762		
RESET				18.161		
RESET				31.560		
1176	1.5	1.5	1.00	30.988	1.63E-08	1.64E-08
1457	1.8	1.8	1.00	30.302	1.61E-08	1.62E-08
413	0.5	0.5	1.00	30.112	1.60E-08	1.61E-08
1000	1.2	1.2	1.00	29.655	1.61E-08	1.61E-08

PERMEABILITY ASTM D5084

SUMMARY OF RESULTS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8722_PM
SAMPLE No.:	002_113.5	EQUIPMENT No.:	2
TEST DATE:	2/11/13		

TESTING PARAMETER	INITIAL	FINAL
BULK UNIT WEIGHT	127.2 lb/ft³	119.3 lb/ft³
DRY UNIT WEIGHT	98.8 lb/ft³	95.7 lb/ft³
MOISTURE CONTENT	28.7 %	24.7 %
PERMEABILITY @ 20°C	1.6E-08 cm/sec	

PERMEABILITY ASTM D5084

SPECIMEN CONDITIONS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/13		

MOISTURE CONTENT (Dry Basis)	***INITIAL***	***FINAL***
1. MOISTURE TIN NO.		
2. WT MOISTURE TIN (tare weight)	0.00 ***g***	231.01 ***g***
3. WT WET SOIL + TARE	147.94 ***g***	382.71 ***g***
4. WT DRY SOIL + TARE	114.75 ***g***	345.76 ***g***
5. WT WATER, Ww	33.19 g	36.95 g
6. WT DRY SOIL, Ws	114.75 g	114.75 g
7. MOISTURE CONTENT, W	28.92 %	32.20 %

SOIL SPECIMEN DIMENSIONS				
TRIPLICATE	***DIAMETER***		***HEIGHT***	
ANALYSES	***INITIAL***	***FINAL***	***INITIAL***	***FINAL***
No. 1	***2.10 in.***	***2.11 in.***	***1.37 in.***	***1.40 in.***
No. 2	***2.02 in.***	***2.04 in.***	***1.40 in.***	***1.41 in.***
No. 3	***2.10 in.***	***2.08 in.***	***1.42 in.***	***1.44 in.***
Average	2.08 in.	2.08 in.	1.40 in.	1.42 in.

SPECIMEN CONDITIONS	***INITIAL***	***FINAL***
Specimen WT, Wo	***147.94 g***	***151.70 g***
Area, Ao	3.38 in^2	3.40 in^2
Volume, Vo	4.72 in^3	4.81 in^3
Bulk Unit Weight	119.4 lb/ft^3	120.2 lb/ft^3
Dry Unit Weight	92.6 lb/ft^3	90.9 lb/ft^3

PERMEABILITY ASTM D5084

BACK-PRESSURE SATURATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/13		

TEST	TIME	TESTED	TEST PRESSURES (psi)						
			APPLIED		PORE		PRESSURE CHANGE		
DATE	(military)	BY	CELL	BACK	SAT.	TEST	CELL	PORE	B-Value
02/12/13	11 : 10	RJB	7.0	5.0	5.1				
02/12/13	12 : 6	RJB	17.0	15.0	15.2	11.4	10.0	6.3	0.63
02/12/13	12 : 48	RJB	27.0	25.0	25.2	22.7	10.0	7.5	0.75
02/12/13	13 : 45	RJB	37.0	35.0	*	33.9	10.0	8.7	0.87
02/12/13	14 : 30	RJB	47.0	45.0	45.0	44.2	*	*	*
02/13/13	8 : 15	RJB	57.0	55.0	*	55.0	10.0	10.0	1.00
02/13/13	8 : 16	RJB	47.0	45.0	*	*	*	*	*

* Saturation check - no data available.

PERMEABILITY ASTM D5084

SPECIMEN CONSOLIDATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	RJB
PROJECT No.:	SH0455	8720_PM
SAMPLE No.:	001_38	3
TEST DATE:	2/12/13	

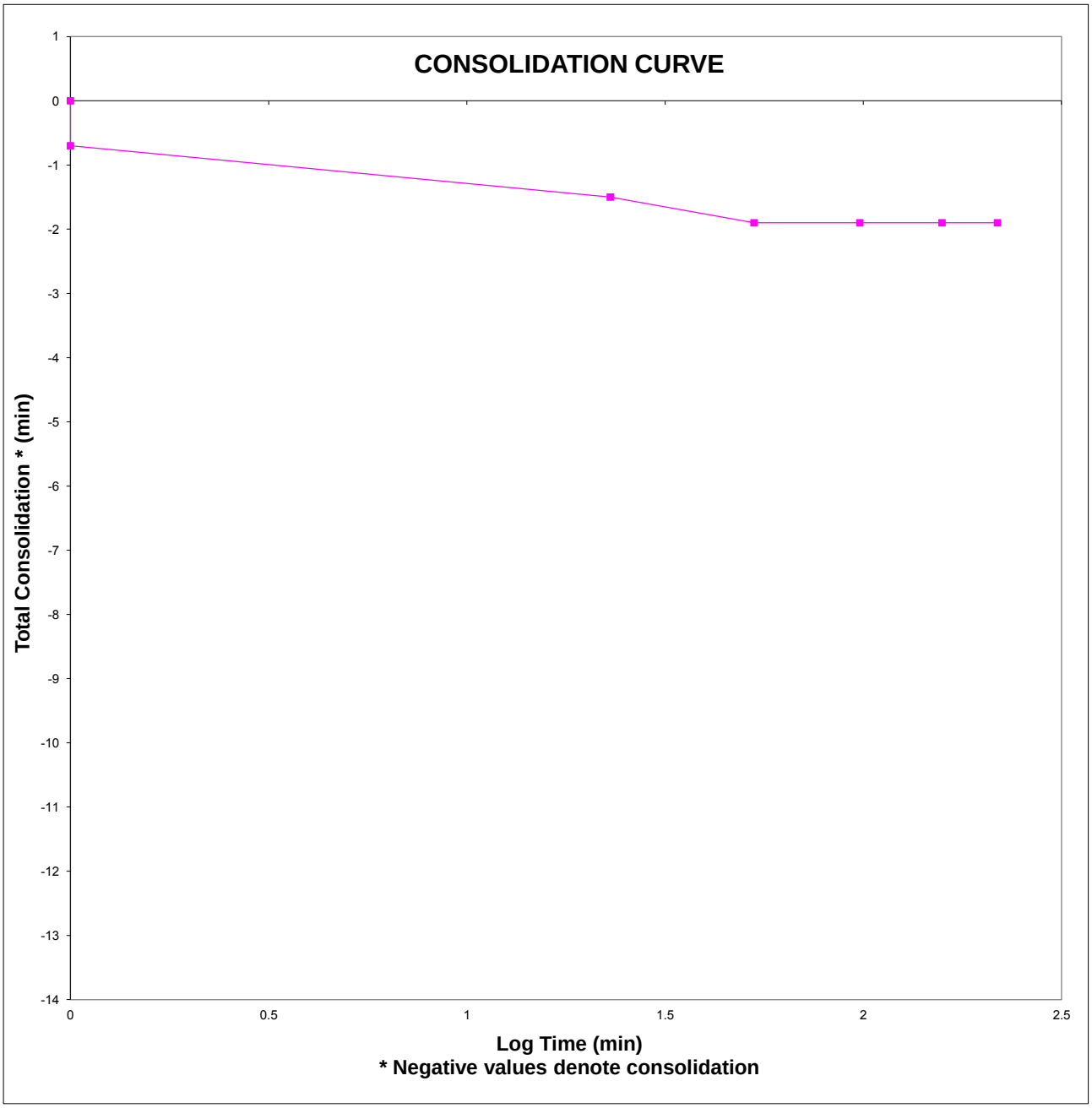
CELL PRESSURE: 55 psi **BACK PRESSURE:** 45 psi **EFFECTIVE STRESS:** 10 psi

TEST DATE	*TESTED BY*	*TIME (Military)*	*ELAPSED TIME (minutes)*	*TOTAL TIME (minutes)*	*TOTAL TIME (Log)*	*SPECIMEN CONSOLIDATION (ML)*		
						READING		*ACTUAL*
						BOTTOM	*TOP*	*TOTAL (Ct)*
2 / 13 / 13	RJB	8 : 22	0	0	0	24.0	24.0	0.0
2 / 13 / 13	RJB	8 : 23	1	1	0.00	23.6	23.7	0.7
2 / 13 / 13	RJB	8 : 45	22	23	1.36	23.0	23.5	1.5
2 / 13 / 13	RJB	9 : 15	30	53	1.72	22.8	23.3	1.9
2 / 13 / 13	RJB	10 : 0	45	98	1.99	22.8	23.3	1.9
2 / 13 / 13	RJB	11 : 0	60	158	2.20	22.8	23.3	1.9
2 / 13 / 13	RJB	12 : 0	60	218	2.34	22.8	23.3	1.9

PERMEABILITY ASTM D5084

CONSOLIDATION CURVE

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/13		



PERMEABILITY ASTM D5084

TEST DATA

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/2013		

DATE	TESTED BY	TIME (military)	ELAPSED TIME (minutes)	HYDRAULIC HEAD (cm)		TEMP. C°	GAUGE PRESSURE (psi)		
				INFLUENT	EFFLUENT		CELL	INFLUENT	EFFLUENT
2 / 13 / 13	RJB	13 : 8	0	0.0	24.0	20.0	55.0	45.0	45.0
2 / 13 / 13	RJB	14 : 3	RESET	0.0	24.0	20.0	55.0	45.0	44.0
2 / 13 / 13	RJB	15 : 36	RESET	0.0	24.0	20.0	55.0	45.0	43.0
2 / 14 / 13	RJB	8 : 36	1020	0.9	23.1	20.0	55.0	45.0	43.0
2 / 18 / 13	RJB	8 : 1	5725	2.6	21.4	20.0	55.0	45.0	43.0
2 / 19 / 13	RJB	8 : 24	1463	3.2	20.8	20.0	55.0	45.0	43.0
2 / 20 / 13	RJB	7 : 50	1406	3.7	20.3	20.0	55.0	45.0	43.0
2 / 21 / 13	RJB	10 : 55	1625	4.2	19.8	20.0	55.0	45.0	43.0

PERMEABILITY ASTM D5084

TEST DATA (continued)

PROJECT:	SOUTHEASTERN WOOD PRESE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/13		

ELAPSED TIME (minutes)	*HYDRAULIC HEAD DIFFERENCE (cm)*		*EFFLUENT - INFLUENT RATIO*	*HYDRAULIC GRADIENT (cm/cm)*	*HYDRAULIC CONDUCTIVITY (cm/sec)*	
	INFLUENT	*EFFLUENT*			*@ Temp.*	*@ 20° C*
RESET				6.772		
RESET				26.619		
RESET				46.465		
1020	0.9	0.9	1.00	45.957	1.46E-08	1.47E-08
5725	1.7	1.7	1.00	44.998	4.99E-09	5.01E-09
1463	0.6	0.6	1.00	44.660	6.99E-09	7.02E-09
1406	0.5	0.5	1.00	44.377	6.10E-09	6.13E-09
1625	0.5	0.5	1.00	44.095	5.31E-09	5.34E-09

PERMEABILITY ASTM D5084

SUMMARY OF RESULTS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8720_PM
SAMPLE No.:	001_38	EQUIPMENT No.:	3
TEST DATE:	2/12/13		

TESTING PARAMETER	INITIAL	FINAL
BULK UNIT WEIGHT	119.4 lb/ft³	120.2 lb/ft³
DRY UNIT WEIGHT	92.6 lb/ft³	90.9 lb/ft³
MOISTURE CONTENT	28.9 %	32.2 %
PERMEABILITY @ 20°C	5.9E-09 cm/sec	

PERMEABILITY ASTM D5084

SPECIMEN CONDITIONS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		

MOISTURE CONTENT (Dry Basis)	***INITIAL***	***FINAL***
1. MOISTURE TIN NO.		
2. WT MOISTURE TIN (tare weight)	0.00 ***g***	211.31 ***g***
3. WT WET SOIL + TARE	296.12 ***g***	499.27 ***g***
4. WT DRY SOIL + TARE	232.05 ***g***	443.36 ***g***
5. WT WATER, Ww	64.07 g	55.91 g
6. WT DRY SOIL, Ws	232.05 g	232.05 g
7. MOISTURE CONTENT, W	27.61 %	24.09 %

SOIL SPECIMEN DIMENSIONS				
TRIPLICATE	***DIAMETER***		***HEIGHT***	
ANALYSES	***INITIAL***	***FINAL***	***INITIAL***	***FINAL***
No. 1	***2.95 in.***	***2.88 in.***	***1.44 in.***	***1.46 in.***
No. 2	***2.88 in.***	***2.78 in.***	***2.26 in.***	***1.39 in.***
No. 3	***2.95 in.***	***2.73 in.***	***1.38 in.***	***1.48 in.***
Average	2.93 in.	2.80 in.	1.69 in.	1.44 in.

SPECIMEN CONDITIONS	***INITIAL***	***FINAL***
Specimen WT, Wo	***296.12 g***	***287.96 g***
Area, Ao	6.72 in^2	6.14 in^2
Volume, Vo	11.37 in^3	8.85 in^3
Bulk Unit Weight	99.2 lb/ft^3	124.0 lb/ft^3
Dry Unit Weight	77.8 lb/ft^3	99.9 lb/ft^3

PERMEABILITY ASTM D5084

BACK-PRESSURE SATURATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		

TEST	TIME	TESTED	TEST PRESSURES (psi)						
			APPLIED		PORE		PRESSURE CHANGE		
DATE	(military)	BY	CELL	BACK	SAT.	TEST	CELL	PORE	B-Value
02/11/13	13 : 35	RJB	7.0	5.0	5.3				
02/11/13	14 : 45	RJB	17.0	15.0	15.2	13.3	10.0	8.0	0.80
02/11/13	15 : 25	RJB	27.0	25.0	25.0	24.0	10.0	8.8	0.88
02/12/13	10 : 0	RJB	37.0	35.0	35.2	34.4	10.0	9.4	0.94
02/12/13	11 : 0	RJB	47.0	45.0	45.0	44.7	10.0	9.5	0.95
02/12/13	12 : 3	RJB	57.0	55.0	*	*	*	*	*
02/12/13	12 : 4	RJB	47.0	45.0	*	*	*	*	*

* Saturation check - no data available.

PERMEABILITY ASTM D5084

SPECIMEN CONSOLIDATION

PROJECT:	SOUTHEASTERN WOOD PRESERVE	RJB
PROJECT No.:	SH0455	8715_PM
SAMPLE No.:	001_18.5	1
TEST DATE:	2/11/13	

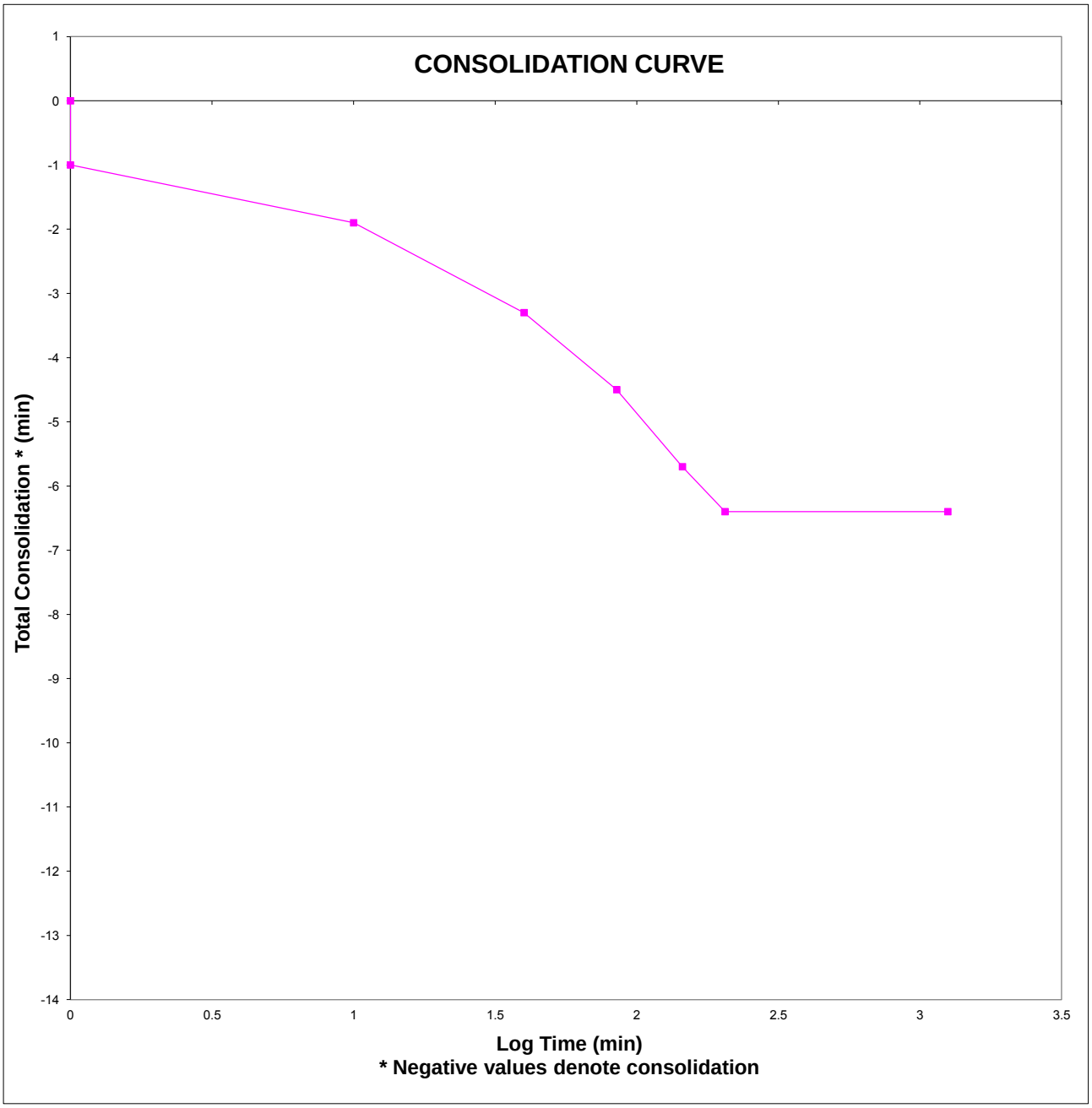
CELL PRESSURE: 55 psi **BACK PRESSURE:** 45 psi **EFFECTIVE STRESS:** 10 psi

TEST DATE	*TESTED BY*	*TIME (Military)*	*ELAPSED TIME (minutes)*	*TOTAL TIME (minutes)*	*TOTAL TIME (Log)*	*SPECIMEN CONSOLIDATION (ML)*		
						READING		*ACTUAL*
						BOTTOM	*TOP*	*TOTAL (Ct)*
2 / 12 / 13	RJB	12 : 5	0	0	0	25.0	25.0	0.0
2 / 12 / 13	RJB	12 : 6	1	1	0.00	24.5	24.5	1.0
2 / 12 / 13	RJB	12 : 15	9	10	1.00	24.0	24.1	1.9
2 / 12 / 13	RJB	12 : 45	30	40	1.60	23.2	23.5	3.3
2 / 12 / 13	RJB	13 : 30	45	85	1.93	22.5	23.0	4.5
2 / 12 / 13	RJB	14 : 30	60	145	2.16	21.7	22.6	5.7
2 / 12 / 13	RJB	15 : 30	60	205	2.31	21.2	22.4	6.4
2 / 13 / 13	RJB	9 : 0	1050	1255	3.10	21.2	22.4	6.4

PERMEABILITY ASTM D5084

CONSOLIDATION CURVE

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		



PERMEABILITY ASTM D5084

TEST DATA

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		

DATE	TESTED BY	TIME (military)	ELAPSED TIME (minutes)	HYDRAULIC HEAD (cm)		TEMP. C°	GAUGE PRESSURE (psi)		
				INFLUENT	EFFLUENT		CELL	INFLUENT	EFFLUENT
2 / 13 / 13	RJB	10 : 39	0	0.0	25.0	20.0	55.0	45.0	45.0
2 / 13 / 13	RJB	12 : 20	RESET	0.0	25.0	20.0	55.0	45.0	44.0
2 / 13 / 13	RJB	13 : 5	RESET	0.0	25.0	20.0	55.0	45.0	43.0
2 / 14 / 13	RJB	7 : 45	1120	0.8	24.2	20.0	55.0	45.0	43.0
2 / 15 / 13	RJB	8 : 36	1491	2.1	22.9	20.0	55.0	45.0	43.0
2 / 18 / 13	RJB	8 : 0	4284	6.1	18.9	20.0	55.0	45.0	43.0
2 / 18 / 13	RJB	10 : 9	RESET	0.0	25.0	20.0	55.0	45.0	43.0
2 / 19 / 13	RJB	8 : 23	1334	1.0	24.0	20.0	55.0	45.0	43.0

PERMEABILITY ASTM D5084

TEST DATA (continued)

PROJECT:	SOUTHEASTERN WOOD PRESE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		

ELAPSED TIME (minutes)	*HYDRAULIC HEAD DIFFERENCE (cm)*		*EFFLUENT - INFLUENT RATIO*	*HYDRAULIC GRADIENT (cm/cm)*	*HYDRAULIC CONDUCTIVITY (cm/sec)*	
	INFLUENT	*EFFLUENT*			*@ Temp.*	*@ 20° C*
RESET				5.817		
RESET				22.184		
RESET				38.551		
1120	0.8	0.8	1.00	38.179	7.16E-09	7.19E-09
1491	1.3	1.3	1.00	37.574	8.85E-09	8.89E-09
4284	4.0	4.0	1.00	35.712	9.80E-09	9.84E-09
RESET				38.551		
1334	1.0	1.0	1.00	38.086	7.52E-09	7.56E-09

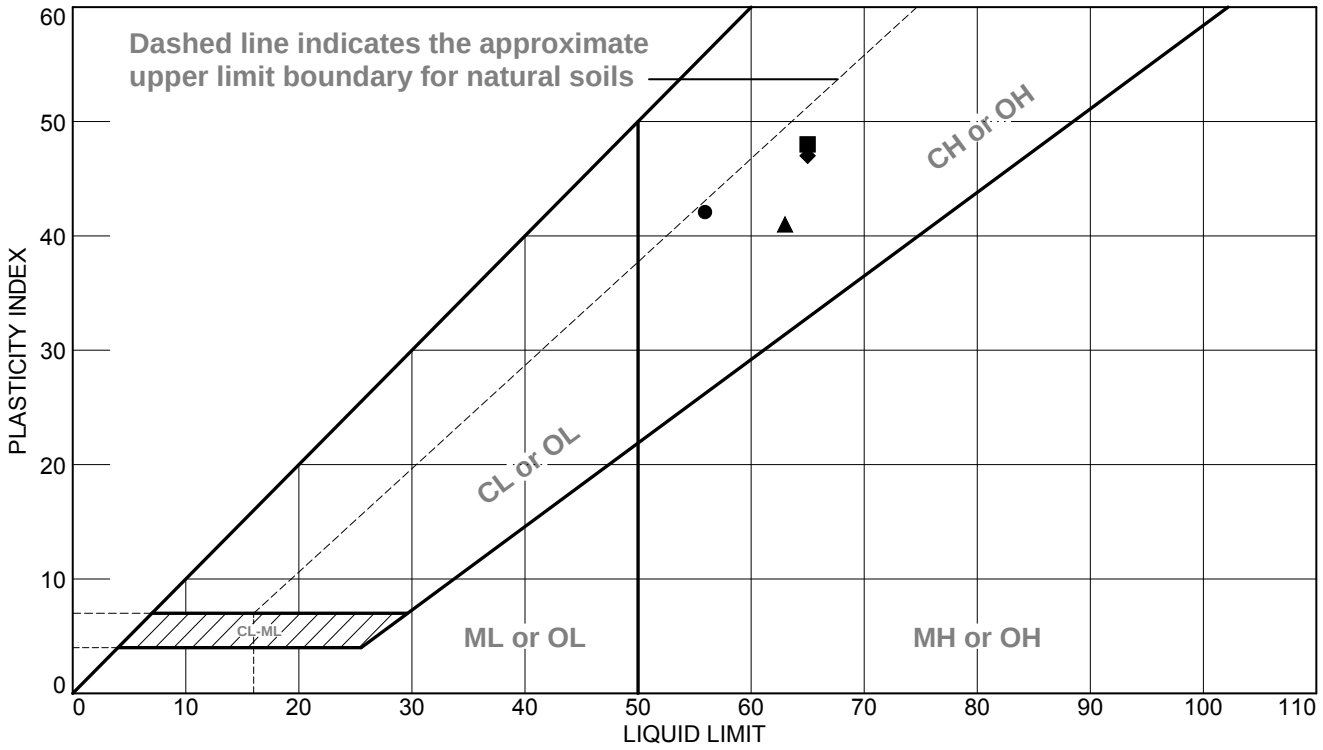
PERMEABILITY ASTM D5084

SUMMARY OF RESULTS

PROJECT:	SOUTHEASTERN WOOD PRESERVE	TESTED BY:	RJB
PROJECT No.:	SH0455	TRACKING CODE:	8715_PM
SAMPLE No.:	001_18.5	EQUIPMENT No.:	1
TEST DATE:	2/11/13		

TESTING PARAMETER	INITIAL	FINAL
BULK UNIT WEIGHT	99.2 lb/ft³	124.0 lb/ft³
DRY UNIT WEIGHT	77.8 lb/ft³	99.9 lb/ft³
MOISTURE CONTENT	27.6 %	24.1 %
PERMEABILITY @ 20°C	8.4E-09 cm/sec	

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●		004-73			14	56	42	CH
■		004-33			17	65	48	CH
▲		001-206.5			22	63	41	
◆		001-38			18	65	47	

KEMRON Environmental Services Inc.
Atlanta, Georgia

Client: Black & Veatch
Project: Southeastern Wood Preserving

Project No.: SH0455 **Tracking No.**

Tested By: RPH **Checked By:** TAJ

USEPA Region 4 COC (REGION COPY)

DateShipped: 1/28/2013
CarrierName: FedEx
AirbillNo: 898948863224

CHAIN OF CUSTODY RECORD

Southeastern Wood Preserving
Project Number:
Cooler #:

No: 01/24/13-0012

Lab: Kemron
Lab Contact: Tommy Jordan
Lab Phone: 4046360928

Sample #	Media/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Sample Type
001_18.5	Subsurface Soil/ Richardson, Jaime	Grab	Density(21), Cond(21), Moisture(21), Size(21), Class(21), TOC(21)	A (None), B, C, D, E, F (6)	SWP001	01/08/2013 10:30	Field Sample
001_206.5	Subsurface Soil/ Richardson, Jaime	Grab	Atterberg(21), TOC(21)	A (None), C (2)	SWP001	01/10/2013 12:00	Field Sample
001_298	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21)	D, E (2)	SWP001	01/10/2013 12:00	Field Sample
001_31	Subsurface Soil/ Richardson, Jaime	Grab	pH(21)	A (None) (1)	SWP001	01/08/2013 10:35	Field Sample
001_35	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), TOC(21)	A (None), B, C (3)	SWP001	01/08/2013 10:40	Field Sample
001_38	Subsurface Soil/ Richardson, Jaime	Grab	Atterberg(21), Cond(21), Moisture(21) density on in situ sample needed.	A (None), B, C (3)	SWP001	01/08/2013 10:45	Field Sample
001_72.5	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), TOC(21)	A (None), B, C (3)	SWP001	01/10/2013 10:45	Field Sample
002_113.5	Subsurface Soil/ Richardson, Jaime	Grab	Cond(21), Moisture(21)	A (None), C (2)	SWP002	01/13/2013 12:00	Field Sample

9716

8720

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Special Instructions: Samples 001 from 0-40' have a Strong odor

Analysis Key: Density=Dry Bulk Density, Cond=Hydraulic Conductivity, Moisture=Moisture Content, Size=Particle Size Analysis with Hydrometer, Class=Soil Classification, TOC=Total Organic Carbon (TOC), Atterberg=Atterberg Limits, pH=Soil pH

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Shipped		01/28/13 1000		1/29/13	11:00						

USEPA Region 4 COC (REGION COPY)
DateShipped: 1/28/2013
CarrierName: FedEx
AirbillNo: 898948863224

CHAIN OF CUSTODY RECORD
Southeastern Wood Preserving
Project Number:
Cooler #:

No: 01/24/13-0012
Lab: Kemron
Lab Contact: Tommy Jordan
Lab Phone: 4046360928

Sample #	Media/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Sample Type
002_118	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), TOC(21)	A (None), C, D (3)	SWP002	01/13/2013 13:00	Field Sample
004_08	Subsurface Soil/ Richardson, Jaime	Grab	Density(21), TOC(21)	A (None), D (2)	SWP004	11/08/2012 10:00	Field Sample
004_15	Subsurface Soil/ Richardson, Jaime	Grab	Density(21)	A (None) (1)	SWP004	11/08/2012 10:30	Field Sample
004_21	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), pH(21), TOC(21)	A (None), B, C, D (4)	SWP004	11/08/2012 11:00	Field Sample
004_30	Subsurface Soil/ Richardson, Jaime	Grab	Cond(21), Moisture(21)	A (None), B (None) (2)	SWP004	11/08/2012 11:30	Field Sample
004_33	Subsurface Soil/ Richardson, Jaime	Grab	Atterberg(21), Size(21), Class(21), TOC(21)	A (None), B (None), C, D (4)	SWP004	11/08/2012 12:00	Field Sample
004_69	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), TOC(21)	B (None), C, D (3)	SWP004	11/08/2012 12:30	Field Sample
004_73	Subsurface Soil/ Richardson, Jaime	Grab	Size(21), Class(21), TOC(21), Atterberg(21)	B (None), C, D, E (4)	SWP004	11/08/2012 13:30	Field Sample

8128

√

Shipment for Case Complete? N √
Samples Transferred From Chain of Custody #

Special Instructions:

Analysis Key: Density=Dry Bulk Density, Cond=Hydraulic Conductivity, Moisture=Moisture Content, Size=Particle Size Analysis with Hydrometer, Class=Soil Classification, TOC=Total Organic Carbon (TOC), Atterberg=Atterberg Limits, pH=Soil pH

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Shipped		1/28/13 1000		1/29/13	1100						

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APPENDIX F
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DATA USABILITY REPORT

DATE: December 14, 2012

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0018

SAMPLE DATE: November 6, 2012

SAMPLES:
Semivolatile Organic Compounds (SVOCs)
004_15
004_60
004_70

Dioxins
004_5

OVERVIEW:
This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008, USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness,

precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0018 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0018 were 3 surface soil samples. The samples were analyzed for SVOCs and one sample was analyzed for dioxins.

MAJOR ISSUES

SVOCs

None.

Dioxins

None.

MINOR ISSUES

SVOCs

The concentration for di-n-octylphthalate was low in the continuing calibration verification standard. The associated sample result was qualified "UJ," estimated at the reporting limit.

Unidentified compounds were reported in some samples. The identification was not verified and the sample results are estimated.

Presumptive evidence indicated petroleum product was present in some samples. The results are reported as identified by the laboratory and the identifications were not verified.

Presumptive evidence exists that tentatively identified compounds were detected in several samples. The sample results were reported as tentative identifications with an estimated value and qualified "NJ."

Dioxins

Some sample results for 1,2,3,4,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzodioxin, 1,2,3,7,8,9-hexachlorodibenzodioxin, and 2,3,4,7,8-pentachlorodibenzofuran were reported at concentrations less than the lowest standard on the calibration curve. The affected sample results were qualified "J," estimated.

Some sample results for octachlorodibenzodioxin were reported at concentrations greater than the highest standard on the calibration curve. The affected sample results were qualified "J," and should be considered estimated.

One or more individual constituents comprising greater than 10% of the total were estimated quantities in the sample results for TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98), TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98), and TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005). The sample results were qualified "J," estimated.

The instrumentation used for analysis was not calibrated for all constituents of the total concentration result for heptachlorodibenzodioxin (total), heptachlorodibenzofuran (total), hexachlorodibenzodioxin (total), hexachlorodibenzofuran (total), pentachlorodibenzodioxin (total), pentachlorodibenzofuran (total), and tetrachlorodibenzofuran (total). The sample results for these compounds were qualified "J," and should be considered estimated, if detected, and "UJ," estimated at the minimum reporting limit (MRL), if not detected.

The estimated maximum possible concentration (EMPC) was reported for 1,2,3,4,7,8-hexachlorodibenzodioxin and 1,2,3,6,7,8-hexachlorodibenzofuran. The sample results were non-detect and qualified "U."

NOTES

The analytical data included for project number 13-0018 are of sufficient quality and are deemed acceptable for their intended use.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 13-0015

Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

December 10, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0018, Southeastern Wood Preserving
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Dioxin (DIO)	
Dioxin	Contract SOW (Soil)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Report Narrative for Work Order C124607, Project: 13-0018
Site Name: Southeastern Wood Preserving, Canton, MS
Case 43016, ELEMENT Sample Nos. C124607-01

Dioxin Analysis: Cape Fear Analytical, LLC, Wilmington, NC

The ESAT Work Team reviewed data for the project cited above consisting of one soil sample analyzed per Statement of Work DLM02.2 for dioxins and furans. The sample was collected on 11/06/12 and received by the laboratory on 11/09/12. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 11/30/12. The analytical results were reported in one sample delivery group (SDG) by the laboratory.

A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case. The data package presents acceptable technical performance with qualifications.

Certain results among these data are reported as not detected at an elevated detection limit. In general, this may occur when method blank contamination is evident, or when one or more of the qualitative identification criteria have not been met. In the event of method blank contamination, detection limits may be raised as much as five times the level of contamination in order to discount false positive results. If qualitative identification criteria are not met for an analyte, an estimated maximum possible concentration (EMPC) value is reported, and is qualified as a non-detect (“U” flag).

The method reporting limit (MRL), as defined elsewhere in this document, is used in dioxin/furan analyses to report the analyte concentration which corresponds to the lowest quantitative point on the calibration curve. Any positive results less than this value are qualified as estimated (“J” flag). The value reported for a 2,3,7,8-substituted PCDD/PCDF analyte that is not detected is either an estimated detection limit (EDL), which is calculated from the instrument signal to system noise ratio, or an EMPC value as described above, qualified with a “U” flag.

Toxic equivalent quantities (TEQ) have been reported for these data which have been derived from the most recent set of toxic equivalent factors (TEF). For mammalian TEQs, these factors were published in 2005 by the World Health Organization (WHO). In the case of the TEQs for birds and fish, the factors were published by WHO in 1998.

Toxic equivalent values for non-detected results are determined using the EDL or the EMPC as a proxy value. Thus a sample with non-detected results for all PCDD/PCDF congeners will still have a positive TEQ value. The TEQ is qualified as estimated (”J”)(D-5) when the sum of the contributions from the various PCDD/PCDF analytes that are themselves reported as either estimated (“J”) or non-detect (“U”) exceeds 10% of the TEQ total. If no positive results are present for any of the 2,3,7,8 congeners, the TEQ is reported as not detected with an estimated detection limit (”UJ”).

The congener OCDD exceeded the upper limit of the initial calibration in sample C124607-02. OCDD was qualified "J" (CLP02) in the sample. The Statement of Work does not require the laboratory to dilute for this congener.

The results for all "Total" congeners are estimated (J, Q-3) since the instrumentation is not calibrated for non 2,3,7,8- congeners.

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
004_5	C124607-01		7200	Surface Soil	11/6/12 11:42

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 13-0015

Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.

ACRONYMS AND ABBREVIATIONS

CAS — Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL — Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL — Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC — Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_5 **Lab ID:** C124607-01 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7200 CAPE

Date Collected: 11/6/12 11:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		11/13/12	11/17/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	54		ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	26		ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.82	U	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.73	U, CLP18	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.92	J, CLP01	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.80	J, CLP01	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.53	U, CLP18	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.63	J, CLP01	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.44	U	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.27	U	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.23	U	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.64	U	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.42	J, CLP01	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.10	U	ng/kg dry	1.0	11/13/12	11/17/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.16	U	ng/kg dry	1.0	11/13/12	11/17/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	120	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	56	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	7.5	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	14	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	4700	J, CLP02	ng/kg dry	10	11/13/12	11/17/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	35		ng/kg dry	10	11/13/12	11/17/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	0.67	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	2.2	J, Q-3	ng/kg dry	5.0	11/13/12	11/17/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	2.1	J, D-5	ng/kg dry	2.1	11/13/12	11/17/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	2.0	J, D-5	ng/kg dry	2.0	11/13/12	11/17/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	3.2	J, D-5	ng/kg dry	3.2	11/13/12	11/17/12	CL DLM02.2

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_5 **Lab ID: C124607-01** **MD No:**

Station ID: SWP004 **Matrix: Surface Soil** **D No: 7200 CAPE**

Date Collected: 11/6/12 11:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.10	U, J, Q-3	ng/kg dry	1.0	11/13/12	11/17/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	0.69	J, Q-3	ng/kg dry	1.0	11/13/12	11/17/12	CL DLM02.2

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

December 11, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0018, Southeastern Wood Preserving
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA (Soil)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Report Narrative for Work Order C124606, Project: 13-0018
Site Name: Southeastern Wood Preserving, Canton, MS
CLP Case No. 43016, ELEMENT Sample Nos. C124606-01 through C124606-03
C124605-01 (PES only)

Organic Analysis: KAP Technologies, Inc., The Woodlands, TX

The ESAT Work Team reviewed data for three soil samples analyzed for Semi-Volatile Extractable Organic Compounds per CLP Statement of Work SOM01.2. The samples were collected on 11/06/12 and were received by the laboratory on 11/09/12. The final data package was received on 11/30/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

There were no anomalies associated with the semi-volatile analysis requiring additional qualification of results.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
004_15	C124606-01		7201	Surface Soil	11/6/12 12:02
004_60	C124606-02		7202	Surface Soil	11/6/12 14:42
004_70	C124606-03		7203	Surface Soil	11/6/12 15:02

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard

ACRONYMS AND ABBREVIATIONS

CAS — Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL — Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL — Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC — Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_15 **Lab ID:** C124606-01 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7201 KAP

Date Collected: 11/6/12 12:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/18/12	11/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_15 **Lab ID: C124606-01** **MD No:**

Station ID: SWP004 **Matrix: Surface Soil** **D No: 7201 KAP**

Date Collected: 11/6/12 12:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, QC-1	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B

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Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_15 **Lab ID: C124606-01** **MD No:**

Station ID: SWP004 **Matrix: Surface Soil** **D No: 7201 KAP**

Date Collected: 11/6/12 12:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/18/12	11/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/18/12	11/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
3452-07-1	1-Eicosene	500	NJ, CLP15	ug/kg dry		11/18/12	11/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/18/12	11/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry		11/18/12	11/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_60 **Lab ID:** C124606-02 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7202 KAP

Date Collected: 11/6/12 14:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/18/12	11/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_60 **Lab ID:** C124606-02 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7202 KAP

Date Collected: 11/6/12 14:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-1	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_60 **Lab ID: C124606-02** **MD No:**

Station ID: SWP004 **Matrix: Surface Soil** **D No: 7202 KAP**

Date Collected: 11/6/12 14:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/18/12	11/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
55517-90-3	1-Pentatriacontanol	700	NJ, CLP15	ug/kg dry		11/18/12	11/28/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/18/12	11/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/18/12	11/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_70 **Lab ID:** C124606-03 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7203 KAP

Date Collected: 11/6/12 15:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/18/12	11/28/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_70 **Lab ID:** C124606-03 **MD No:**
Station ID: SWP004 **Matrix:** Surface Soil **D No:** 7203 KAP

Date Collected: 11/6/12 15:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, QC-1	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0018, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0018, Southeastern Wood Preserving **Contract Lab Case: 43016**

Sample ID: 004_70 **Lab ID: C124606-03** **MD No:**

Station ID: SWP004 **Matrix: Surface Soil** **D No: 7203 KAP**

Date Collected: 11/6/12 15:02

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/18/12	11/28/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/18/12	11/28/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/18/12	11/28/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry		11/18/12	11/28/12	CLP SOM01.2 B

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DATA USABILITY REPORT

DATE: January 3, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0016

SAMPLE DATE: November 6, 2012

SAMPLES:
Metals
004_5

OVERVIEW:
This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Inorganic Analyses, Revision 2.0, September 2011,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0016 containing the qualified analytical results for the

sample collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0016 was one surface soil sample. The sample was analyzed for metals.

MAJOR ISSUES

Metals

None.

MINOR ISSUES

Metals

The matrix spike recovery was less than the method control limits for antimony, molybdenum, tin and titanium. The sample results for antimony, molybdenum, and tin were qualified "UJ," not detected but estimated at the minimum reporting limit (MRL), and the sample result for titanium was qualified "J," estimated.

Selenium was qualified "UJ," estimated at the MRL, in the sample because the MRL verification recovery was less than the lower control limit.

NOTES

The analytical data included for project number 13-0016 are of sufficient quality and are deemed acceptable for their intended use.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0016, Southeastern Wood Preserving - Reported by Mike Wasko

December 18, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0016, Southeastern Wood Preserving
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Physical Properties (PHYSP)		
Physical Properties	EPA 200.2 (Soil)	None
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 6010 (Soil)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0016, Southeastern Wood Preserving - Reported by Mike Wasko

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0016, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
004_5	E124512-01	Surface Soil	11/6/12 11:42	11/9/12 10:03

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits
QR-1	MRL verification recovery less than lower control limits.

ACRONYMS AND ABBREVIATIONS

CAS — Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

ISO — The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

MDL — Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL — Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC — Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0016, Southeastern Wood Preserving - Reported by Mike Wasko

Total Metals

Project: 13-0016, Southeastern Wood Preserving

Sample ID: 004_5 **Lab ID:** E124512-01

Station ID: SWP004 **Matrix:** Surface Soil

Date Collected: 11/6/12 11:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	6100		mg/kg dry	20	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-36-0	Antimony	0.20	U, J, QM-1	mg/kg dry	0.20	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7440-38-2	Arsenic	2.1		mg/kg dry	0.20	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7440-39-3	Barium	77		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-41-7	Beryllium	0.60	U	mg/kg dry	0.60	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-43-9	Cadmium	0.099	U	mg/kg dry	0.099	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7440-70-2	Calcium	1400		mg/kg dry	50	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-47-3	Chromium	7.0		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-48-4	Cobalt	5.7		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-50-8	Copper	7.4		mg/kg dry	2.0	11/21/12 15:50	12/06/12 17:43	EPA 6010
7439-89-6	Iron	10000		mg/kg dry	20	11/21/12 15:50	12/06/12 17:43	EPA 6010
7439-92-1	Lead	12		mg/kg dry	0.20	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7439-95-4	Magnesium	860		mg/kg dry	50	11/21/12 15:50	12/06/12 17:43	EPA 6010
7439-96-5	Manganese	900		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7439-98-7	Molybdenum	2.0	U, J, QM-1	mg/kg dry	2.0	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-02-0	Nickel	5.6		mg/kg dry	2.0	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-09-7	Potassium	350		mg/kg dry	200	11/21/12 15:50	12/06/12 17:43	EPA 6010
7782-49-2	Selenium	0.40	U, J, QR-1	mg/kg dry	0.40	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7440-22-4	Silver	0.99	U	mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-23-5	Sodium	380		mg/kg dry	200	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-24-6	Strontium	13		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	11/21/12 15:56	12/07/12 18:02	EPA 200.8
7440-31-5	Tin	3.0	U, J, QM-1	mg/kg dry	3.0	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-32-6	Titanium	15	J, QM-1	mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-62-2	Vanadium	15		mg/kg dry	0.99	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-65-5	Yttrium	9.1		mg/kg dry	0.60	11/21/12 15:50	12/06/12 17:43	EPA 6010
7440-66-6	Zinc	22		mg/kg dry	2.0	11/21/12 15:50	12/06/12 17:43	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0016, Southeastern Wood Preserving - Reported by Mike Wasko

Physical Properties

Project: 13-0016, Southeastern Wood Preserving

Sample ID: 004_5 **Lab ID:** E124512-01

Station ID: SWP004 **Matrix:** Surface Soil

Date Collected: 11/6/12 11:42

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	74		%	0.0	11/19/12 14:34	11/21/12 14:30	EPA 200.2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
Blank (1211092-BLK1)				Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
Blank (1211092-BLK2)				Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
Blank (1211092-BLK2)				Prepared: 11/21/12 Analyzed: 12/06/12						
Manganese	U	0.50	mg/kg dry							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
LCS (1211092-BS1)				Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	10.307	0.50	mg/kg dry	10.000		103	85-115			
Barium	50.076	0.50	"	50.000		100	85-115			
Beryllium	21.203	0.30	"	20.000		106	85-115			
Cobalt	51.949	0.50	"	50.000		104	85-115			
Chromium	51.243	0.50	"	50.000		102	85-115			
Copper	33.114	1.0	"	30.000		110	85-115			
Molybdenum	32.461	1.0	"	30.000		108	85-115			
Nickel	81.892	1.0	"	80.000		102	85-115			
Tin	113.66	1.5	"	100.00		114	85-115			
Strontium	42.774	0.50	"	40.000		107	85-115			
Titanium	50.484	0.50	"	50.000		101	85-115			
Vanadium	41.477	0.50	"	40.000		104	85-115			
Yttrium	29.948	0.30	"	30.000		99.8	85-115			
Zinc	104.29	1.0	"	100.00		104	85-115			
Aluminum	549.71	10	"	500.00		110	85-115			
Manganese	522.97	0.50	"	500.00		105	85-115			
Calcium	517.94	25	"	500.00		104	85-115			
Magnesium	536.80	25	"	500.00		107	85-115			
Iron	541.49	10	"	500.00		108	85-115			
Sodium	1115.3	100	"	1000.0		112	85-115			
Potassium	1022.0	100	"	1000.0		102	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
Matrix Spike (1211092-MS1)	**Source: E124510-05**			Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	10.379	1.5	mg/kg dry	9.9128	U	105	75-125			
Barium	66.316	1.5	"	49.564	20.235	93.0	75-125			
Beryllium	20.914	0.89	"	19.826	0.18563	105	75-125			
Cobalt	54.608	1.5	"	49.564	3.6546	103	75-125			
Chromium	63.791	1.5	"	49.564	12.483	104	75-125			
Copper	47.736	3.0	"	29.738	6.7029	138	75-125			QM-2
Molybdenum	19.260	3.0	"	29.738	0.59057	62.8	75-125			QM-1
Nickel	84.447	3.0	"	79.302	3.2783	102	75-125			
Tin	93.344	4.5	"	99.128	U	94.2	75-125			
Strontium	43.627	1.5	"	39.651	4.3971	98.9	75-125			
Titanium	198.22	1.5	"	49.564	160.10	76.9	75-125			
Vanadium	59.220	1.5	"	39.651	18.589	102	75-125			
Yttrium	32.867	0.89	"	29.738	4.6716	94.8	75-125			
Zinc	533.54	3.0	"	99.128	42.781	495	75-125			QM-2
Aluminum	4228.6	30	"	495.64	3859.2	74.5	75-125			QM-1
Manganese	686.22	1.5	"	495.64	171.83	104	75-125			
Calcium	1408.8	74	"	495.64	1296.1	22.7	75-125			QM-1
Magnesium	959.84	74	"	495.64	546.27	83.4	75-125			
Iron	8698.1	30	"	495.64	8326.7	74.9	75-125			XM-1
Sodium	1096.3	300	"	991.28	33.081	107	75-125			
Potassium	1528.8	300	"	991.28	472.52	107	75-125			
Matrix Spike (1211092-MS2)	**Source: E124512-01**			Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	10.552	0.99	mg/kg dry	9.9069	U	107	75-125			
Barium	131.69	0.99	"	49.534	77.018	110	75-125			
Beryllium	21.766	0.59	"	19.814	0.41992	108	75-125			
Cobalt	56.051	0.99	"	49.534	5.7490	102	75-125			
Chromium	57.186	0.99	"	49.534	7.0358	101	75-125			
Copper	40.835	2.0	"	29.721	7.4018	112	75-125			
Molybdenum	22.599	2.0	"	29.721	0.69195	73.7	75-125			QM-1
Nickel	86.943	2.0	"	79.255	5.5595	103	75-125			
Tin	28.412	3.0	"	99.069	U	28.7	75-125			QM-1
Strontium	54.882	0.99	"	39.628	12.815	106	75-125			
Titanium	33.165	0.99	"	49.534	14.565	37.5	75-125			QM-1
Vanadium	55.369	0.99	"	39.628	15.469	101	75-125			
Yttrium	38.381	0.59	"	29.721	9.0801	98.6	75-125			
Zinc	125.15	2.0	"	99.069	22.337	104	75-125			
Aluminum	6751.1	20	"	495.34	6097.2	132	75-125			XM-1

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
Matrix Spike (1211092-MS2)	**Source: E124512-01**			Prepared: 11/21/12 Analyzed: 12/06/12						
Manganese	1503.8	0.99	mg/kg dry	495.34	896.40	123	75-125			
Calcium	1959.5	50	"	495.34	1370.9	119	75-125			
Magnesium	1448.0	50	"	495.34	863.05	118	75-125			
Iron	10907	20	"	495.34	10122	158	75-125			XM-1
Sodium	1451.1	200	"	990.69	376.51	108	75-125			
Potassium	1399.0	200	"	990.69	346.78	106	75-125			
Matrix Spike Dup (1211092-MSD1)	**Source: E124510-05**			Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	10.028	1.5	mg/kg dry	9.9108	U	101	75-125	3.44	20	
Barium	69.764	1.5	"	49.554	20.235	99.9	75-125	5.07	20	
Beryllium	20.763	0.89	"	19.822	0.18563	104	75-125	0.729	20	
Cobalt	55.565	1.5	"	49.554	3.6546	105	75-125	1.74	20	
Chromium	66.996	1.5	"	49.554	12.483	110	75-125	4.90	20	
Copper	39.481	3.0	"	29.732	6.7029	110	75-125	18.9	20	
Molybdenum	18.771	3.0	"	29.732	0.59057	61.1	75-125	2.57	20	QM-1
Nickel	84.559	3.0	"	79.286	3.2783	103	75-125	0.132	20	
Tin	92.294	4.5	"	99.108	U	93.1	75-125	1.13	20	
Strontium	44.588	1.5	"	39.643	4.3971	101	75-125	2.18	20	
Titanium	229.28	1.5	"	49.554	160.10	140	75-125	14.5	20	QM-2
Vanadium	61.641	1.5	"	39.643	18.589	109	75-125	4.01	20	
Yttrium	33.448	0.89	"	29.732	4.6716	96.8	75-125	1.75	20	
Zinc	152.60	3.0	"	99.108	42.781	111	75-125	111	20	QM-3
Aluminum	4707.6	30	"	495.54	3859.2	171	75-125	10.7	20	QM-2
Manganese	721.37	1.5	"	495.54	171.83	111	75-125	4.99	20	
Calcium	2545.3	74	"	495.54	1296.1	252	75-125	57.5	20	QM-2, QM-3
Magnesium	1734.8	74	"	495.54	546.27	240	75-125	57.5	20	QM-2, QM-3
Iron	9493.8	30	"	495.54	8326.7	236	75-125	8.75	20	XM-1
Sodium	1099.5	300	"	991.08	33.081	108	75-125	0.287	20	
Potassium	1618.4	300	"	991.08	472.52	116	75-125	5.69	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
Matrix Spike Dup (1211092-MSD2)	**Source: E124512-01**			Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	10.418	1.0	mg/kg dry	9.9681	U	105	75-125	1.28	20	
Barium	125.91	1.0	"	49.841	77.018	98.1	75-125	4.49	20	
Beryllium	21.244	0.60	"	19.936	0.41992	104	75-125	2.43	20	
Cobalt	56.174	1.0	"	49.841	5.7490	101	75-125	0.219	20	
Chromium	56.308	1.0	"	49.841	7.0358	98.9	75-125	1.55	20	
Copper	38.459	2.0	"	29.904	7.4018	104	75-125	5.99	20	
Molybdenum	23.547	2.0	"	29.904	0.69195	76.4	75-125	4.11	20	
Nickel	85.596	2.0	"	79.745	5.5595	100	75-125	1.56	20	
Tin	30.839	3.0	"	99.681	U	30.9	75-125	8.19	20	QM-1
Strontium	50.951	1.0	"	39.872	12.815	95.6	75-125	7.43	20	
Titanium	33.171	1.0	"	49.841	14.565	37.3	75-125	0.0160	20	QM-1
Vanadium	54.904	1.0	"	39.872	15.469	98.9	75-125	0.845	20	
Yttrium	37.852	0.60	"	29.904	9.0801	96.2	75-125	1.39	20	
Zinc	122.82	2.0	"	99.681	22.337	101	75-125	1.88	20	
Aluminum	6505.9	20	"	498.41	6097.2	82.0	75-125	3.70	20	XM-1
Manganese	1484.7	1.0	"	498.41	896.40	118	75-125	1.28	20	
Calcium	1788.0	50	"	498.41	1370.9	83.7	75-125	9.15	20	
Magnesium	1343.7	50	"	498.41	863.05	96.4	75-125	7.47	20	
Iron	10517	20	"	498.41	10122	79.3	75-125	3.64	20	XM-1
Sodium	1336.7	200	"	996.81	376.51	96.3	75-125	8.21	20	
Potassium	1313.1	200	"	996.81	346.78	96.9	75-125	6.33	20	
MRL Verification (1211092-PS1)				Prepared: 11/21/12 Analyzed: 12/06/12						
EPA 6010										
Silver	0.51699	0.50	mg/kg dry	0.50000		103	70-130			MRL-3
Barium	0.47922	0.50	"	0.50000		95.8	70-130			MRL-3, U
Beryllium	0.30922	0.30	"	0.30000		103	70-130			MRL-3
Cobalt	0.48945	0.50	"	0.50000		97.9	70-130			MRL-3, U
Chromium	0.58259	0.50	"	0.50000		117	70-130			MRL-3
Copper	0.99163	1.0	"	1.0000		99.2	70-130			MRL-3, U
Molybdenum	1.0682	1.0	"	1.0000		107	70-130			MRL-3
Nickel	1.0468	1.0	"	1.0000		105	70-130			MRL-3
Tin	1.7354	1.5	"	1.5000		116	70-130			MRL-3
Strontium	0.52393	0.50	"	0.50000		105	70-130			MRL-3
Titanium	0.55446	0.50	"	0.50000		111	70-130			MRL-3
Vanadium	0.47931	0.50	"	0.50000		95.9	70-130			MRL-3, U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211092 - M 200.2 Metals Soil										
MRL Verification (1211092-PS1)				Prepared: 11/21/12 Analyzed: 12/06/12						
Yttrium	0.31920	0.30	mg/kg dry	0.30000		106	70-130			MRL-3
Zinc	0.92656	1.0	"	1.0000		92.7	70-130			MRL-3, U
Aluminum	10.647	10	"	10.000		106	70-130			MRL-3
Manganese	0.50766	0.50	"	0.50000		102	70-130			MRL-3
Calcium	25.690	25	"	25.000		103	70-130			MRL-3
Magnesium	25.322	25	"	25.000		101	70-130			MRL-3
Iron	11.527	10	"	10.000		115	70-130			MRL-3
Sodium	107.12	100	"	100.00		107	70-130			MRL-3
Potassium	101.48	100	"	100.00		101	70-130			MRL-3
Batch 1211093 - M 200.2 Metals Soil										
Blank (1211093-BLK1)				Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U
Blank (1211093-BLK2)				Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211093 - M 200.2 Metals Soil										
LCS (1211093-BS1)				Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	51.796	1.0	mg/kg dry	50.000		104	85-115			
Selenium	102.87	2.0	"	100.00		103	85-115			
Cadmium	20.018	0.50	"	20.000		100	85-115			
Antimony	99.656	1.0	"	100.00		99.7	85-115			
Thallium	20.458	1.0	"	20.000		102	85-115			
Lead	101.66	1.0	"	100.00		102	85-115			
Matrix Spike (1211093-MS1)			**Source: E124510-05**	Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	39.566	0.99	mg/kg dry	49.564	0.55036	78.7	70-130			
Selenium	66.833	2.0	"	99.128	U	67.4	70-130			QM-1
Cadmium	20.826	0.50	"	19.826	0.11680	104	70-130			
Antimony	50.738	0.99	"	99.128	0.065572	51.1	70-130			QM-1
Thallium	19.539	0.99	"	19.826	0.064594	98.2	70-130			
Lead	123.02	0.99	"	99.128	20.117	104	70-130			
Matrix Spike (1211093-MS2)			**Source: E124512-01**	Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	45.734	0.99	mg/kg dry	49.534	2.0834	88.1	70-130			
Selenium	88.379	2.0	"	99.069	0.24032	89.0	70-130			
Cadmium	20.624	0.50	"	19.814	0.058014	104	70-130			
Antimony	15.953	0.99	"	99.069	0.022080	16.1	70-130			QM-1
Thallium	19.751	0.99	"	19.814	0.10591	99.2	70-130			
Lead	111.26	0.99	"	99.069	12.009	100	70-130			
Matrix Spike Dup (1211093-MSD1)			**Source: E124510-05**	Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	36.629	0.99	mg/kg dry	49.554	0.55036	72.8	70-130	7.71	20	
Selenium	61.931	2.0	"	99.108	U	62.5	70-130	7.61	20	QM-1
Cadmium	20.410	0.50	"	19.822	0.11680	102	70-130	2.02	20	
Antimony	47.927	0.99	"	99.108	0.065572	48.3	70-130	5.70	20	QM-1
Thallium	19.965	0.99	"	19.822	0.064594	100	70-130	2.16	20	
Lead	125.90	0.99	"	99.108	20.117	107	70-130	2.31	20	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0016, Southeastern Wood Preserving - Reported by Mike Wasko

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211093 - M 200.2 Metals Soil										
Matrix Spike Dup (1211093-MSD2)	**Source: E124512-01**			Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	47.107	1.0	mg/kg dry	49.841	2.0834	90.3	70-130	2.96	20	
Selenium	90.728	2.0	"	99.681	0.24032	90.8	70-130	2.62	20	
Cadmium	19.840	0.50	"	19.936	0.058014	99.2	70-130	3.87	20	
Antimony	15.228	1.0	"	99.681	0.022080	15.3	70-130	4.65	20	QM-1
Thallium	20.222	1.0	"	19.936	0.10591	101	70-130	2.35	20	
Lead	112.34	1.0	"	99.681	12.009	101	70-130	0.963	20	
MRL Verification (1211093-PS1)				Prepared: 11/21/12 Analyzed: 12/07/12						
EPA 200.8										
Arsenic	0.16011	0.10	mg/kg dry	0.10000		160	65-135			MRL-4, QR-2
Selenium	0.12196	0.20	"	0.20000		61.0	65-135			MRL-4, QR-1, U
Cadmium	0.054729	0.050	"	0.050000		109	65-135			MRL-4
Antimony	0.052600	0.10	"	0.050000		105	65-135			MRL-4, U
Thallium	0.047308	0.10	"	0.050000		94.6	65-135			MRL-4, U
Lead	0.10274	0.10	"	0.10000		103	65-135			MRL-4

Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1211079 - M % Solids										
Duplicate (1211079-DUP1)		**Source: E124512-01**		Prepared: 11/19/12 Analyzed: 11/21/12						
EPA 200.2										
% Solids	72.625	0.0	%		74.022			1.91	10	

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-4	Level in blank impacts MRLs.
MRL-3	MRL verification for Soil matrix
MRL-4	MRL verification for Tissue matrix
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

January 7, 2013

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0015, Southeastern Wood Preserving
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Dioxin (DIO)	
Dioxin	Contract SOW (Soil)
Dioxin	Contract SOW (Water)

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Report Narrative for Work Order C124602, Project: 13-0015
Site Name: Southeastern Wood Preserving, Canton, MS
Case 43015, ELEMENT Sample Nos. C124602-01 through C124602-28

Dioxin Analysis: Cape Fear Analytical, LLC, Wilmington, NC

The ESAT Work Team reviewed data for the project cited above consisting of one water sample and twenty-seven (27) soil samples analyzed per Statement of Work DLM02.2 for dioxins and furans. The samples were collected between 10/21/12 and 10/29/12, and received by the laboratory on 10/30/12. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 11/21/12. Due to a laboratory error, data was re-submitted to USEPA on 12/11/12 for validation. The analytical results were reported in two sample delivery groups (SDGs) by the laboratory.

A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case. The data package presents acceptable technical performance with qualifications.

Certain results among these data are reported as not detected at an elevated detection limit. In general, this may occur when method blank contamination is evident, or when one or more of the qualitative identification criteria have not been met. In the event of method blank contamination, detection limits may be raised as much as five times the level of contamination in order to discount false positive results. If qualitative identification criteria are not met for an analyte, an estimated maximum possible concentration (EMPC) value is reported, and is qualified as a non-detect (“U” flag).

The method reporting limit (MRL), as defined elsewhere in this document, is used in dioxin/furan analyses to report the analyte concentration which corresponds to the lowest quantitative point on the calibration curve. Any positive results less than this value are qualified as estimated (“J” flag). The value reported for a 2,3,7,8-substituted PCDD/PCDF analyte that is not detected is either an estimated detection limit (EDL), which is calculated from the instrument signal to system noise ratio, or an EMPC value as described above, qualified with a “U” flag.

Toxic equivalent quantities (TEQ) have been reported for these data which have been derived from the most recent set of toxic equivalent factors (TEF). For mammalian TEQs, these factors were published in 2005 by the World Health Organization (WHO). In the case of the TEQs for birds and fish, the factors were published by WHO in 1998.

Toxic equivalent values for non-detected results are determined using the EDL or the EMPC as a proxy value. Thus a sample with non-detected results for all PCDD/PCDF congeners will still have a positive TEQ value. The TEQ is qualified as estimated (”J”) when the sum of the contributions from the various PCDD/PCDF analytes that are themselves reported as either estimated (“J”, D-5) or non-detect (“U”) exceeds 10% of the TEQ total. If no positive results are present for any of the 2,3,7,8 congeners, the TEQ is reported as not detected with an estimated detection limit (”UJ”).

Pertinent data quality factors are discussed below:

The Percent Difference for the response factor between the initial calibration and the daily continuing calibration for the labeled 2,3,7,8-TCDF congener was greater than the percent difference allowed by the method in the opening calibration performed on 11/16/12. The positive results for congener 2,3,7,8-TCDF were qualified "J" (CLP10 and QC-3) in samples C124602-02, 05, 09, 13, and 15.

Poor chromatography was observed for the congener 2,3,4,7,8- PeCDF in samples C124602-18, 21, and 28, and for congener 1,2,3,7,8,9-HxCDD in sample C124602-20. The results for these congeners were qualified "J" (CLP33) in these samples.

Since the mass spectrometer for dioxin/furans analysis operates in the high resolution mode, a mass drift of a few ppm can have serious adverse effects on instrument performance. As a result, a mass-drift correction is required by the method for monitoring and correcting ion mass drift over the course of the day. Lock mass shifts were observed for congener 1,2,3,7,8,9-HxCDF in samples C124602-08, 09, 18, and 25, for congener 1,2,3,7,8,9-HxCDD in sample C124602-28, and for congener 1,2,3,4,6,7,8-HpCDD in samples C124602-20 and 23. The above congeners were "J" qualified (CR-Instrument Sensitivity Shift) in the respective samples.

The percent recovery of labeled congeners were greater than the upper recovery limit in samples C124602-18, 20, 21, and 28. All congeners associated with an out of control recovery standard were qualified "J" (QI-1).

The percent recovery of the labeled 1,2,3,7,8,9-HxCDF congener was less than the lower the recovery limit in the undiluted analysis of sample C124602-25. The positive result for the associated congener was qualified "J" (QI-1).

The congener OCDD exceeded the upper limit of the initial calibration range in samples C124602-03, 04, 07, 08, 10, 11, 12, 14, 19, 20, 21, 25, and 26, and were qualified "J" (CLP02). The method does not require dilutions for the OCDD congener.

The results for all "Total" congeners are estimated (J, Q-3) since the instrumentation is not calibrated for non 2,3,7,8- congeners.

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
EQB01	C124602-01		7199	Equipment Rinse Blank	10/26/12 10:00
SWP218_0.5	C124602-02		70B3	Surface Soil	10/24/12 12:05
SWP225_0.5	C124602-03		7151	Surface Soil	10/25/12 14:50
SWP215_0.5	C124602-04		7138	Surface Soil	10/24/12 14:55
SWP216_0.5	C124602-05		70B5	Surface Soil	10/29/12 09:00
SWP217_0.5	C124602-06		70B1	Surface Soil	10/24/12 10:50
SWP224_0.5	C124602-07		7146	Surface Soil	10/25/12 11:00
SWP222_0.5	C124602-08		7197	Surface Soil	10/27/12 10:05
SWP223_0.5	C124602-09		7149	Surface Soil	10/25/12 14:05
SWP221_0.5	C124602-10		7160	Surface Soil	10/26/12 11:55
SWP220_0.5	C124602-11		70A7	Surface Soil	10/24/12 09:25
SWP219_0.5	C124602-12		70A9	Surface Soil	10/24/12 10:00
SWP208_0.5	C124602-13		7155	Surface Soil	10/26/12 08:30
SWP201_0.5	C124602-14		70A0	Surface Soil	10/24/12 08:45
SWP209_0.5	C124602-15		70B9	Surface Soil	10/24/12 13:50
SWP210_0.5	C124602-16		70B7	Surface Soil	10/24/12 12:55
SWP9210_0.5	C124602-17		7164	Surface Soil	10/24/12 12:55
SWP211_0.5	C124602-18		7140	Surface Soil	10/24/12 15:30
SWP202_0.5	C124602-19		7168	Surface Soil	10/29/12 09:45
SWP203_0.5	C124602-20		7171	Surface Soil	10/29/12 10:30
SWP204_0.5	C124602-21		70A2	Surface Soil	10/26/12 10:00
SWP207_0.5	C124602-22		7144	Surface Soil	10/25/12 10:10
SWP9207_0.5	C124602-23		7167	Surface Soil	10/25/12 10:15
SWP214_0.5	C124602-24		7174	Surface Soil	10/29/12 08:45
SWP212_0.5	C124602-25		7157	Surface Soil	10/26/12 08:50
SWP205_1.0	C124602-26		70A4	Subsurface Soil	10/25/12 08:45
SWP213_0.5	C124602-27		7142	Surface Soil	10/24/12 15:55
SWP206_0.5	C124602-28		7153	Surface Soil	10/25/12 15:45

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP10	2,3,7,8-TCDF confirmed by second column.
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
CLP24	Result has not been confirmed by second column analysis.
CLP33	Poor Chromatography - Split Peaks and/or Poor Peak Shape Present
CR	Instrument Sensitivity Shift
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.
QC-3	Analyte calibration criteria not met
QI-1	Internal standard was outside of method control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: EQB01 **Lab ID: C124602-01** **MD No:**
Station ID: **Matrix: Equipment Rinse Blank** **D No: 7199 CAPE**

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	0.0036	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0016	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0031	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.0020	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.00096	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	0.0018	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.00095	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	0.0020	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0017	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.00051	U, CLP18	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.00076	U	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.00074	U, CLP18	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.00055	U, CLP18	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.00084	U	ng/L	0.0095	10/30/12	11/09/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.00082	U	ng/L	0.0095	10/30/12	11/09/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	0.0074	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	0.0045	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	0.0018	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	0.00074	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	0.026	U	ng/L	0.095	10/30/12	11/09/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	0.0024	U, CLP18	ng/L	0.095	10/30/12	11/09/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	0.00051	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	0.00055	J, Q-3	ng/L	0.047	10/30/12	11/09/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	0.0036	U, J, D-5	ng/L	0.0036	10/30/12	11/09/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	0.0032	U, J, D-5	ng/L	0.0032	10/30/12	11/09/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	0.0027	U, J, D-5	ng/L	0.0027	10/30/12	11/09/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.00084	U, J, Q-3	ng/L	0.0095	10/30/12	11/09/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: EQB01 **Lab ID: C124602-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 7199 CAPE**

Date Collected: 10/26/12 10:00

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
30402-14-3	Tetrachlorodibenzofuran (Total)	0.00027	J, Q-3	ng/L	0.0095	10/30/12	11/09/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_0.5 **Lab ID:** C124602-02 **MD No:**
Station ID: 093D-19A-187/01.00 **Matrix:** Surface Soil **D No:** 70B3 CAPE

Date Collected: 10/24/12 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	150		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	680		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	9.4		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.2	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	25		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	21		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	14		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	8.0		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.3	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.9	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.6	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	19		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	18		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.36	U, CLP18	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.2	J, CLP10, QC-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	270	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1100	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	160	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	560	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1000		ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	270		ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	27	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	36	J, D-5	ng/kg dry	36	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_0.5 **Lab ID:** C124602-02 **MD No:**

Station ID: 093D-19A-187/01.00 **Matrix:** Surface Soil **D No:** 70B3 CAPE

Date Collected: 10/24/12 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	26	J, D-5	ng/kg dry	26	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	8.4	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	46	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_0.5 **Lab ID:** C124602-03 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Surface Soil **D No:** 7151 CAPE

Date Collected: 10/25/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	370		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	360		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	12		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.0	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	13		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.4	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	4.3	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.72	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.49	U	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.2		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.13	U	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.29	U	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1100	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1000	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	100	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	240	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	5500	J, CLP02	ng/kg dry	9.9	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	860		ng/kg dry	9.9	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	7.9	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	28	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	13	J, D-5	ng/kg dry	13	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	11	J, D-5	ng/kg dry	11	11/04/12	11/15/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	16	J, D-5	ng/kg dry	16	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP225_0.5

Lab ID: C124602-03

MD No:

Station ID: 093D-19A-187/02.00

Matrix: Surface Soil

D No: 7151 CAPE

Date Collected: 10/25/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.3	J, Q-3	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	2.4	J, Q-3	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_0.5 **Lab ID:** C124602-04 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Surface Soil **D No:** 7138 CAPE

Date Collected: 10/24/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1600		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	890		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	27		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	8.5		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	14		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	42		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.3		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	19		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.4	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.5	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.52	U	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.9	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.25	U	ng/kg dry	0.97	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.50	J, CLP01, CLP24	ng/kg dry	0.97	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	3800	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	3100	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	290	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	600	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	18000	J, CLP02	ng/kg dry	9.7	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	3400		ng/kg dry	9.7	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	30	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	44	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/04/12	11/07/12	CL DLM02.2

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_0.5 **Lab ID:** C124602-04 **MD No:**

Station ID: 093D-19A-212/00.00 **Matrix:** Surface Soil **D No: 7138 CAPE**

Date Collected: 10/24/12 14:55

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	46	J, D-5	ng/kg dry	46	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	7.8	J, Q-3	ng/kg dry	0.97	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	9.5	J, Q-3	ng/kg dry	0.97	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_0.5 **Lab ID:** C124602-05 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Surface Soil **D No:** 70B5 CAPE

Date Collected: 10/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	150		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	620		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	7.7		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.8	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	22		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	18		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	8.6		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.8	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.3	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	14		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.32	U	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.1	J, CLP10, QC-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	290	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1000	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	140	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	470	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1000		ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	250		ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	24	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	130	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	31	J, D-5	ng/kg dry	31	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	22	J, D-5	ng/kg dry	22	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_0.5 **Lab ID:** C124602-05 **MD No:**

Station ID: 093D-19A-218/00.00 **Matrix:** Surface Soil **D No:** 70B5 CAPE

Date Collected: 10/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	23	J, D-5	ng/kg dry	23	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.4	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	34	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_0.5 **Lab ID:** C124602-06 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Surface Soil **D No:** 70B1 CAPE

Date Collected: 10/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	140		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	190		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	3.5	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.6	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	7.3		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	5.9		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.3	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.8	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.91	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.76	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.49	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.6		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.6		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.11	U	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.52	J, CLP01, CLP24	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	250	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	330	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	51	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	190	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1400		ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	140		ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	8.0	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	54	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	8.7	J, D-5	ng/kg dry	8.7	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_0.5 **Lab ID:** C124602-06 **MD No:**

Station ID: 093D-19A-219/00.00 **Matrix:** Surface Soil **D No: 70B1 CAPE**

Date Collected: 10/24/12 10:50

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	9.4	J, D-5	ng/kg dry	9.4	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.8	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	11	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_0.5 **Lab ID:** C124602-07 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Surface Soil **D No:** 7146 CAPE

Date Collected: 10/25/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	280		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	200		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	6.7		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.4	J, CLP01	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	7.1		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	8.6		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	5.9		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.0	J, CLP01	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.92	J, CLP01	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.61	U	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	6.2		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.3	J, CLP01	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.29	U	ng/kg dry	0.96	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.24	U	ng/kg dry	0.96	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	770	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	510	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	91	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	160	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	7700	J, CLP02	ng/kg dry	9.6	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	380		ng/kg dry	9.6	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	30	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	11	J, D-5	ng/kg dry	11	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	9.2	J, D-5	ng/kg dry	9.2	11/04/12	11/07/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	13	J, D-5	ng/kg dry	13	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_0.5 **Lab ID:** C124602-07 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Surface Soil **D No: 7146 CAPE**

Date Collected: 10/25/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.9	J, Q-3	ng/kg dry	0.96	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	5.4	J, Q-3	ng/kg dry	0.96	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_0.5 **Lab ID:** C124602-08 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7197 CAPE

Date Collected: 10/27/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		10/31/12	11/05/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1500		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	570		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	23		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	9.7		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	13		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	44		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	6.9		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	22		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.1	J, CLP01, CR	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	4.1	J, CLP01	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.53	U	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.18	J, CLP01	ng/kg dry	0.97	10/31/12	11/05/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.22	U	ng/kg dry	0.97	10/31/12	11/05/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	3600	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1900	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	320	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	480	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	15000	J, CLP02	ng/kg dry	9.7	10/31/12	11/05/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	2100		ng/kg dry	9.7	10/31/12	11/05/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	22	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	43	J, Q-3	ng/kg dry	4.9	10/31/12	11/05/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	24	J, D-5	ng/kg dry	24	10/31/12	11/05/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	24	J, D-5	ng/kg dry	24	10/31/12	11/05/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	43	J, D-5	ng/kg dry	43	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_0.5 **Lab ID:** C124602-08 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No: 7197 CAPE**

Date Collected: 10/27/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.8	J, Q-3	ng/kg dry	0.97	10/31/12	11/05/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	5.6	J, Q-3	ng/kg dry	0.97	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_0.5 **Lab ID:** C124602-09 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Surface Soil **D No:** 7149 CAPE

Date Collected: 10/25/12 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	32000		ng/kg dry	480	11/04/12	11/14/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	5000		ng/kg dry	480	11/04/12	11/14/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	380		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	320		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	130		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	750		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	180		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	650		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	22	J, CR	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	79		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	13		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	380		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	55		ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	6.0		ng/kg dry	0.95	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.7	J, CLP10, QC-3	ng/kg dry	0.95	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	52000	J, Q-3	ng/kg dry	480	11/04/12	11/14/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	15000	J, Q-3	ng/kg dry	480	11/04/12	11/14/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	4600	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	8300	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	340000		ng/kg dry	950	11/04/12	11/14/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	14000		ng/kg dry	950	11/04/12	11/14/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	670	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	1600	J, Q-3	ng/kg dry	4.8	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	430		ng/kg dry	430	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	480		ng/kg dry	480	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_0.5 **Lab ID:** C124602-09 **MD No:**

Station ID: 093D-19A-229/00.00 **Matrix:** Surface Soil **D No: 7149 CAPE**

Date Collected: 10/25/12 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	820		ng/kg dry	820	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	52	J, Q-3	ng/kg dry	0.95	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	210	J, Q-3	ng/kg dry	0.95	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_0.5 **Lab ID:** C124602-10 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Surface Soil **D No:** 7160 CAPE

Date Collected: 10/26/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		10/31/12	11/04/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	640		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	320		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	12		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	6.7		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	11		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	22		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	5.6		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	11		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.5	J, CLP01	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.7	J, CLP01	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.40	J, CLP01	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	7.5		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.0		ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.43	J, CLP01	ng/kg dry	0.97	10/31/12	11/04/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.17	U	ng/kg dry	0.97	10/31/12	11/04/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1400	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	890	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	160	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	260	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	10000	J, CLP02	ng/kg dry	9.7	10/31/12	11/04/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	750		ng/kg dry	9.7	10/31/12	11/04/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	20	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	42	J, Q-3	ng/kg dry	4.8	10/31/12	11/04/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	18	J, D-5	ng/kg dry	18	10/31/12	11/04/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	17	J, D-5	ng/kg dry	17	10/31/12	11/04/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	24	J, D-5	ng/kg dry	24	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_0.5 **Lab ID:** C124602-10 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Surface Soil **D No: 7160 CAPE**

Date Collected: 10/26/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.7	J, Q-3	ng/kg dry	0.97	10/31/12	11/04/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	4.9	J, Q-3	ng/kg dry	0.97	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_0.5 **Lab ID:** C124602-11 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Surface Soil **D No:** 70A7 CAPE

Date Collected: 10/24/12 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	260		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	530		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	8.1		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.2	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	21		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	14		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	10		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.6		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.4	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.8	U, CLP18	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.0	U	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	16		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	25		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.28	U, CLP18	ng/kg dry	0.97	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.74	U, CLP18	ng/kg dry	0.97	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	550	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	930	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	98	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	610	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	4000	J, CLP02	ng/kg dry	9.7	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	290		ng/kg dry	9.7	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	15	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	220	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	39	J, D-5	ng/kg dry	39	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	27	J, D-5	ng/kg dry	27	11/04/12	11/15/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	26	J, D-5	ng/kg dry	26	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_0.5 **Lab ID:** C124602-11 **MD No:**

Station ID: 093D-19A-236/00.00 **Matrix:** Surface Soil **D No: 70A7 CAPE**

Date Collected: 10/24/12 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.3	J, Q-3	ng/kg dry	0.97	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	33	J, Q-3	ng/kg dry	0.97	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_0.5 **Lab ID:** C124602-12 **MD No:**
Station ID: 093D-19A-239-00.00 **Matrix:** Surface Soil **D No:** 70A9 CAPE

Date Collected: 10/24/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	320		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	380		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	9.5		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.1	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	21		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	12		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	12		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	12		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.1	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.2	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.1	U	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	15		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	16		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.39	U, CLP18	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.58	J, CLP01, CLP24	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	710	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	740	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	140	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	450	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	4000	J, CLP02	ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	320		ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	31	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	160	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	31	J, D-5	ng/kg dry	31	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	23	J, D-5	ng/kg dry	23	11/04/12	11/07/12	CL DLM02.2

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_0.5 **Lab ID:** C124602-12 **MD No:**

Station ID: 093D-19A-239-00.00 **Matrix:** Surface Soil **D No:** 70A9 CAPE

Date Collected: 10/24/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	24	J, D-5	ng/kg dry	24	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	5.7	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	24	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_0.5 **Lab ID:** C124602-13 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Surface Soil **D No:** 7155 CAPE

Date Collected: 10/26/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1400		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	30000		ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	320		ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	44		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	760		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	230		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	360		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	60		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	87		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	24		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	20		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	340		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	190		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	4.7		ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	6.0	J, CLP10, QC-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	2600	J, Q-3	ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	50000	J, Q-3	ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1500	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	15000	J, Q-3	ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	8000		ng/kg dry	200	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	13000		ng/kg dry	200	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	230	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	1400	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	700		ng/kg dry	700	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	610		ng/kg dry	610	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_0.5 **Lab ID:** C124602-13 **MD No:**

Station ID: 093D-19A-241/00.00 **Matrix:** Surface Soil **D No: 7155 CAPE**

Date Collected: 10/26/12 8:30

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	600		ng/kg dry	600	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	52	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	120	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_0.5 **Lab ID:** C124602-14 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Surface Soil **D No:** 70A0 CAPE

Date Collected: 10/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	1300		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	650		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	22		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	13		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	17		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	38		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	13		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	27		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.7	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	4.4	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.6	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	21		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	9.7		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.33	U	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.68	J, CLP01, CLP10	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	2500	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1800	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	270	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	620	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	12000	J, CLP02	ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1300		ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	29	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	110	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	34	J, D-5	ng/kg dry	34	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	32	J, D-5	ng/kg dry	32	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_0.5 **Lab ID:** C124602-14 **MD No:**

Station ID: 093D-19A-245/00.00 **Matrix:** Surface Soil **D No:** 70A0 CAPE

Date Collected: 10/24/12 8:45

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	44	J, D-5	ng/kg dry	44	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.9	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	19	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_0.5 **Lab ID:** C124602-15 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Surface Soil **D No:** 70B9 CAPE

Date Collected: 10/24/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	360		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	340		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	13		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	2.4	J, CLP01	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	17		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	13		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	8.3		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.6		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	J, CLP01	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.4	U, CLP18	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.9	U	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	9.5		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.2		ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.34	U	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.3	J, CLP10, QC-3	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	680	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	860	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	96	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	240	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	3200		ng/kg dry	9.9	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	820		ng/kg dry	9.9	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	21	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	64	J, Q-3	ng/kg dry	5.0	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	18	J, D-5	ng/kg dry	18	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	14	J, D-5	ng/kg dry	14	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP209_0.5

Lab ID: C124602-15

MD No:

Station ID: 093D-19A-247/00.00

Matrix: Surface Soil

D No: 70B9 CAPE

Date Collected: 10/24/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	18	J, D-5	ng/kg dry	18	11/04/12	11/15/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	11	J, Q-3	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	28	J, Q-3	ng/kg dry	0.99	11/04/12	11/15/12	CL DLM02.2

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_0.5 **Lab ID:** C124602-16 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 70B7 CAPE

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	240		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	200		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	5.8		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.7	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	5.3		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	8.2		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.1	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	4.4	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.76	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.0	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.39	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	4.6	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2.7	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.12	U	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.57	U, CLP18	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	530	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	480	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	64	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	140	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	2600		ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	400		ng/kg dry	9.9	11/04/12	11/07/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	9.9	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	9.0	J, D-5	ng/kg dry	9.0	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	7.5	J, D-5	ng/kg dry	7.5	11/04/12	11/07/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	10	J, D-5	ng/kg dry	10	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_0.5 **Lab ID:** C124602-16 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 70B7 CAPE

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.5	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	8.5	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9210_0.5 **Lab ID:** C124602-17 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 7164 CAPE

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		10/31/12	11/04/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	230		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	230		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	6.6		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.9	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	6.8		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	8.8		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.5	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	4.9	J	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.90	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.96	U	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.55	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.2		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2.6	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.16	U, CLP18	ng/kg dry	0.99	10/31/12	11/04/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.46	U	ng/kg dry	0.99	10/31/12	11/04/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	480	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	520	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	65	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	140	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	2400		ng/kg dry	9.9	10/31/12	11/04/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	420		ng/kg dry	9.9	10/31/12	11/04/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	9.3	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	25	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	9.4	J, D-5	ng/kg dry	9.4	10/31/12	11/04/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	8.1	J, D-5	ng/kg dry	8.1	10/31/12	11/04/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	11	J, D-5	ng/kg dry	11	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP9210_0.5

Lab ID: C124602-17

MD No:

Station ID: 093D-19A-250/00.00

Matrix: Surface Soil

D No: 7164 CAPE

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.1	J, Q-3	ng/kg dry	0.99	10/31/12	11/04/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	8.0	J, Q-3	ng/kg dry	0.99	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_0.5 **Lab ID:** C124602-18 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Surface Soil **D No:** 7140 CAPE

Date Collected: 10/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	19000		ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	13000		ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	440		ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	52	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	110	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	430		ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	45	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	120	J, CLP01	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	13	J, CR	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	5.0		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.4	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	120	J, CLP01	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	13	J, CLP33	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.29	U	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.47	J, CLP01, CLP24	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	57000	J, Q-3	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	54000	J, Q-3	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	3400	J, Q-3	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	9400	J, Q-3	ng/kg dry	250	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	190000		ng/kg dry	490	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	64000		ng/kg dry	490	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	54	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	50	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	250	J, D-5	ng/kg dry	250	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	250	J, D-5	ng/kg dry	250	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_0.5 **Lab ID:** C124602-18 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Surface Soil **D No: 7140 CAPE**

Date Collected: 10/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	500	J, D-5	ng/kg dry	500	11/04/12	11/07/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	10	J, Q-3	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	16	J, Q-3	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_0.5 **Lab ID:** C124602-19 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Surface Soil **D No:** 7168 CAPE

Date Collected: 10/29/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.8		%		10/31/12	11/05/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	820		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	380		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	13		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	7.0		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	7.8		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	25		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	5.4		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	14		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.5	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.60	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	9.7		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.2	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.32	J, CLP01	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.41	U	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1700	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1000	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	180	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	280	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	8100	J, CLP02	ng/kg dry	10	10/31/12	11/05/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1000		ng/kg dry	10	10/31/12	11/05/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	18	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	40	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	16	J, D-5	ng/kg dry	16	10/31/12	11/05/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	16	J, D-5	ng/kg dry	16	10/31/12	11/05/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	26	J, D-5	ng/kg dry	26	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP202_0.5

Lab ID: C124602-19

MD No:

Station ID: 093D-19A-266/00.00

Matrix: Surface Soil

D No: 7168 CAPE

Date Collected: 10/29/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.5	J, Q-3	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	7.1	J, Q-3	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_0.5 **Lab ID:** C124602-20 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7171 CAPE

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		10/31/12	11/05/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	13000		ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	8700	J, CR	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	280		ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	50	J, QI-1	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	100		ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	380	J, QI-1	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	51	J, QI-1	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	110	J, CLP33	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	25	J, CLP01	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	6.4		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.8	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	110	J, QI-1	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	8.7	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.24	J, CLP01	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.39	U	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	36000	J, Q-3	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	31000	J, Q-3	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	2800	J, Q-3	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	6200	J, Q-3	ng/kg dry	50	10/31/12	11/05/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	110000	J, CLP02	ng/kg dry	100	10/31/12	11/05/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	38000		ng/kg dry	100	10/31/12	11/05/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	100	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	58	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	180	J, D-5	ng/kg dry	180	10/31/12	11/05/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	190	J, D-5	ng/kg dry	190	10/31/12	11/05/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	360	J, D-5	ng/kg dry	360	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_0.5 **Lab ID:** C124602-20 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No: 7171 CAPE**

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	30	J, Q-3	ng/kg dry	1.0	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_0.5 **Lab ID:** C124602-21 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Surface Soil **D No:** 70A2 CAPE

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	18000		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	11000		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	300		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	41	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	120	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	410		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	36	J, QI-1	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	110		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	41	J, CLP01	ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	19		ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.8	J, CLP01	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	120		ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	26	J, CLP33	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.46	U	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.33	U, CLP18	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	54000	J, Q-3	ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	44000	J, Q-3	ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	3300	J, Q-3	ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	8000	J, Q-3	ng/kg dry	98	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	180000	J, CLP02	ng/kg dry	200	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	52000		ng/kg dry	200	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	81	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	81	J, Q-3	ng/kg dry	4.9	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	250	J, D-5	ng/kg dry	250	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	250	J, D-5	ng/kg dry	250	11/04/12	11/07/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	480	J, D-5	ng/kg dry	480	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_0.5 **Lab ID:** C124602-21 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Surface Soil **D No:** 70A2 CAPE

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	17	J, Q-3	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	27	J, Q-3	ng/kg dry	0.98	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_0.5 **Lab ID:** C124602-22 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7144 CAPE

Date Collected: 10/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	120		ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	30		ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.5	J, CLP01	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.94	U	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	2.9	J, CLP01	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.58	U, CLP18	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.0	J, CLP01	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.56	U	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.42	U, CLP18	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.20	U	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.45	U	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.17	U	ng/kg dry	0.89	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.24	J, CLP01, CLP24	ng/kg dry	0.89	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	320	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	89	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	38	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	24	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1400		ng/kg dry	8.9	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	86		ng/kg dry	8.9	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	5.8	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	4.6	J, Q-3	ng/kg dry	4.5	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	2.5	J, D-5	ng/kg dry	2.5	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	2.3	J, D-5	ng/kg dry	2.3	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_0.5 **Lab ID:** C124602-22 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No: 7144 CAPE**

Date Collected: 10/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	3.6	J, D-5	ng/kg dry	3.6	11/04/12	11/15/12	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.73	J, Q-3	ng/kg dry	0.89	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	1.0	J, Q-3	ng/kg dry	0.89	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9207_0.5 **Lab ID:** C124602-23 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7167 CAPE

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		10/31/12	11/04/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	110	J, CR	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	21		ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.1	U, CLP18	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.1	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.93	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	2.9	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.58	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	1.7	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.26	U	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.30	U, CLP18	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.15	U	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.91	J, CLP01	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.27	U	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.081	U	ng/kg dry	1.0	10/31/12	11/04/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.18	U, CLP18	ng/kg dry	1.0	10/31/12	11/04/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	270	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	57	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	34	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	20	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1300		ng/kg dry	10	10/31/12	11/04/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	54		ng/kg dry	10	10/31/12	11/04/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	4.0	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	4.7	J, Q-3	ng/kg dry	5.0	10/31/12	11/04/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	1.8	J, D-5	ng/kg dry	1.8	10/31/12	11/04/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	1.9	J, D-5	ng/kg dry	1.9	10/31/12	11/04/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	3.0	J, D-5	ng/kg dry	3.0	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9207_0.5 **Lab ID:** C124602-23 **MD No:**

Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No: 7167 CAPE**

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.28	J, Q-3	ng/kg dry	1.0	10/31/12	11/04/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	1.4	J, Q-3	ng/kg dry	1.0	10/31/12	11/04/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_0.5 **Lab ID:** C124602-24 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7174 CAPE

Date Collected: 10/29/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		10/31/12	11/05/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	59		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	38		ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.5	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	0.70	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.1	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	1.9	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.0	U, CLP18	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	1.4	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.31	U	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.30	U, CLP18	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.13	U	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.34	U	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.10	U	ng/kg dry	0.99	10/31/12	11/05/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.16	U	ng/kg dry	0.99	10/31/12	11/05/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	130	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	92	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	18	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	32	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	590		ng/kg dry	9.9	10/31/12	11/05/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	84		ng/kg dry	9.9	10/31/12	11/05/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	1.7	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	6.4	J, Q-3	ng/kg dry	5.0	10/31/12	11/05/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	2.0	J, D-5	ng/kg dry	2.0	10/31/12	11/05/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	1.9	J, D-5	ng/kg dry	1.9	10/31/12	11/05/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	2.5	J, D-5	ng/kg dry	2.5	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_0.5 **Lab ID:** C124602-24 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No: 7174 CAPE**

Date Collected: 10/29/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.1	J, Q-3	ng/kg dry	0.99	10/31/12	11/05/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	0.43	J, Q-3	ng/kg dry	0.99	10/31/12	11/05/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_0.5 **Lab ID:** C124602-25 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Surface Soil **D No:** 7157 CAPE

Date Collected: 10/26/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	7600		ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	4300		ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	130		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	24		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	47		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	190		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	22		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	56		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	8.3	J, CR, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	6.6		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.6	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	49		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	7.9		ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.29	U	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.67	U	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	20000	J, Q-3	ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	17000	J, Q-3	ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1200	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	3200	J, Q-3	ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	71000	J, CLP02	ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	21000		ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	60	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	140	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	98	J, D-5	ng/kg dry	99	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	100	J, D-5	ng/kg dry	100	11/04/12	11/07/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	200	J, D-5	ng/kg dry	200	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP212_0.5

Lab ID: C124602-25

MD No:

Station ID: 093D-20B-227/00.00

Matrix: Surface Soil

D No: 7157 CAPE

Date Collected: 10/26/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	9.0	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	0.99	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.0 **Lab ID:** C124602-26 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A4 CAPE

Date Collected: 10/25/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	820		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	520		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	17		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.1	U, CLP18	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	6.7		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	21		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	2.3	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	6.6		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.2	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.84	J, CLP01	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.32	U, CLP18	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.7		ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.98	U	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.14	U	ng/kg dry	0.98	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.30	U	ng/kg dry	0.98	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	2200	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	2000	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	160	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	370	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	10000	J, CLP02	ng/kg dry	9.8	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	2200		ng/kg dry	9.8	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	6.3	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	17	J, Q-3	ng/kg dry	4.9	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	11/04/12	11/15/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	23	J, D-5	ng/kg dry	23	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP205_1.0

Lab ID: C124602-26

MD No:

Station ID: 093D-20B-235/00.00

Matrix: Subsurface Soil

D No: 70A4 CAPE

Date Collected: 10/25/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.2	J, Q-3	ng/kg dry	0.98	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	1.6	J, Q-3	ng/kg dry	0.98	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_0.5 **Lab ID:** C124602-27 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Surface Soil **D No:** 7142 CAPE

Date Collected: 10/24/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/04/12	11/15/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	120		ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	56		ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1.8	U, CLP18	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.2	U, CLP18	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1.5	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	4.0	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1.4	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	2.7	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.1	U	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.80	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.41	U	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.6	J, CLP01	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.41	U	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.16	U	ng/kg dry	0.94	11/04/12	11/15/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.21	U	ng/kg dry	0.94	11/04/12	11/15/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	260	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	130	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	41	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	45	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	1700		ng/kg dry	9.4	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	100		ng/kg dry	9.4	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	5.8	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	6.7	J, Q-3	ng/kg dry	4.7	11/04/12	11/15/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.4	J, D-5	ng/kg dry	3.4	11/04/12	11/15/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.3	J, D-5	ng/kg dry	3.3	11/04/12	11/15/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	4.8	J, D-5	ng/kg dry	4.8	11/04/12	11/15/12	CL DLM02.2

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_0.5 **Lab ID:** C124602-27 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Surface Soil **D No: 7142 CAPE**

Date Collected: 10/24/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.71	J, Q-3	ng/kg dry	0.94	11/04/12	11/15/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	1.7	J, Q-3	ng/kg dry	0.94	11/04/12	11/15/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_0.5 **Lab ID:** C124602-28 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Surface Soil **D No:** 7153 CAPE

Date Collected: 10/25/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/04/12	11/07/12	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	820		ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	580		ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	17	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	7.2	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	17	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	24	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	10	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	4.4	J, CLP01, CR	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	4.3	J, CLP01	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	3.5	U, CLP18	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.9	U	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	13	J, QI-1	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	11	J, CLP33	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.47	U	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.75	U	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1900	J, Q-3	ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1400	J, Q-3	ng/kg dry	50	11/04/12	11/15/12	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	230	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	450	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	8800		ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1600		ng/kg dry	100	11/04/12	11/15/12	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	48	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	34	J, Q-3	ng/kg dry	5.0	11/04/12	11/07/12	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	30	J, D-5	ng/kg dry	30	11/04/12	11/07/12	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	26	J, D-5	ng/kg dry	26	11/04/12	11/07/12	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	33	J, D-5	ng/kg dry	33	11/04/12	11/07/12	CL DLM02.2

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Dioxin

Project: 13-0015, Southeastern Wood Preserving

Contract Lab Case: 43015

Sample ID: SWP206_0.5

Lab ID: C124602-28

MD No:

Station ID: 093D-20B-241/00.00

Matrix: Surface Soil

D No: 7153 CAPE

Date Collected: 10/25/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.3	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	16	J, Q-3	ng/kg dry	1.0	11/04/12	11/07/12	CL DLM02.2

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December 3, 2012

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0015, Southeastern Wood Preserving
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Semi Volatile Organics (SVOA)	
Semivolatile organic compounds	CLP BNA (Soil)
Semivolatile organic compounds	CLP BNA (Water)

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Report Narrative for Work Order C124603, Project: 13-0015
Site Name: Southeastern Wood Preserving, Canton, MS
CLP Case No. 43015, ELEMENT Sample Nos. C124603-01 through C124603-77
C124604-01, 02, 03 (PES only)

Organic Analysis: KAP Technologies, Inc.

The ESAT Work Team reviewed data for eleven (11) water samples and sixty-six (66) soil samples analyzed for Semi-Volatile Extractable Organic Compounds, including selective ion monitoring (SIM) for the waters only per CLP Statement of Work SOM01.2. The samples were collected between 10/24/12 and 10/29/12 and were received by the laboratory between 10/27/12 and 10/30/12. The final data package was received on 11/20/12 by the USEPA Quality Assurance Section, Region 4 SESD/MTSB. The analytical results were reported in five sample delivery groups (SDGs) by the laboratory. In addition to the field samples, the laboratory also analyzed three performance evaluation samples (PES) for evaluating the laboratory's performance with using the methods.

The laboratory satisfied all technical analysis and extraction holding time requirements. A Stage 4 validation consisting of an electronic/manual review (S4VEM) was performed on the organic samples submitted for this case. The data package presents acceptable technical performance with qualifications.

All results associated with erratic initial and/or continuing calibration performance were "J" flagged with the appropriate Element qualifier (CLP16 and/or QC-1). Deuterated monitoring compounds (DMC) are used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Water Matrix

The percent recovery of the DMC 4,6-Dinitro-2-methylphenol-d2 was less than the quality control limit in the full scan analysis for in sample C124603-29. The compound 4,6-Dinitro-2-methylphenol was qualified "J" (QS-3).

Soil Matrix

The percent recovery of the DMC 4,6-Dinitro-2-methylphenol-d2 was within the quality control limit established by the method and less than 10% in samples C124603-15 and 27. The compound 4,6-Dinitro-2-methylphenol was qualified "J" (QS-4).

The percent recoveries of the DMCs Pyrene-d10 and Dimethylphthalate-d6 were less than the quality control limits in sample C124603-27. All compounds associated with these out of control DMCs were qualified "J" (QS-3) in this sample.

Data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
EQB01	C124603-01		7199	Equipment Rinse Blank	10/26/12 10:00
SWP111	C124603-02		7186	Sediment	10/28/12 14:00
SWP109	C124603-03		7183	Sediment	10/28/12 12:30
SWP108	C124603-04		7182	Sediment	10/27/12 14:00
SWP112	C124603-05		7184	Sediment	10/28/12 14:00
SWP9112	C124603-06		7185	Sediment	10/28/12 14:00
SWP113	C124603-07		7181	Sediment	10/27/12 12:30
SWP113SW	C124603-08		7191	Surface Water	10/27/12 12:30
SWP9113SW	C124603-09		7192	Surface Water	10/27/12 12:30
SWP107	C124603-10		7180	Sediment	10/28/12 15:40
SWP107SW	C124603-11		7190	Surface Water	10/28/12 15:40
SWP218_0.5	C124603-12		70B3	Surface Soil	10/24/12 12:05
SWP218_1.0	C124603-13		70B4	Subsurface Soil	10/24/12 12:10
SWP225_0.5	C124603-14		7151	Surface Soil	10/25/12 14:50
SWP225_1.0	C124603-15		7152	Subsurface Soil	10/25/12 14:55
SWP215_0.5	C124603-16		7138	Surface Soil	10/24/12 14:55
SWP215_1.0	C124603-17		7139	Subsurface Soil	10/24/12 15:00
SWP216_0.5	C124603-18		70B5	Surface Soil	10/29/12 09:00
SWP216_1.0	C124603-19		70B6	Subsurface Soil	10/24/12 12:40
SWP217_0.5	C124603-20		70B1	Surface Soil	10/24/12 10:50
SWP217_1.0	C124603-21		70B2	Subsurface Soil	10/24/12 10:55
SWP224_0.5	C124603-22		7146	Surface Soil	10/25/12 11:00
SWP224_1.0	C124603-23		7147	Subsurface Soil	10/25/12 11:05
SWP9224_1.0	C124603-24		7166	Subsurface Soil	10/25/12 11:05
SWP222_0.5	C124603-25		7197	Surface Soil	10/27/12 10:05
SWP222_1.0	C124603-26		7198	Surface Soil	10/27/12 10:10
SWP223_0.5	C124603-27		7149	Surface Soil	10/25/12 14:05
SWP223_1.0	C124603-28		7150	Subsurface Soil	10/25/12 14:10
SWP101SW	C124603-29		7187	Surface Water	10/27/12 09:30
SWP101	C124603-30		7177	Sediment	10/27/12 09:30
SWP221_0.5	C124603-31		7160	Surface Soil	10/26/12 11:55
SWP221_1.0	C124603-32		7161	Subsurface Soil	10/26/12 12:00
SWP220_0.5	C124603-33		70A7	Surface Soil	10/24/12 09:25
SWP220_1.0	C124603-34		70A8	Subsurface Soil	10/24/12 09:30

SWP219_1.0	C124603-35	70B0	Subsurface Soil	10/24/12 10:10
SWP219_0.5	C124603-36	70A9	Surface Soil	10/24/12 10:00
SWP208_0.5	C124603-37	7155	Surface Soil	10/26/12 08:30
SWP208_1.0	C124603-38	7156	Subsurface Soil	10/26/12 08:35
SWP201_0.5	C124603-39	70A0	Surface Soil	10/24/12 08:45
SWP201_1.0	C124603-40	70A1	Subsurface Soil	10/24/12 08:55
SWP9201_1.0	C124603-41	7162	Subsurface Soil	10/24/12 08:55
SWP209_0.5	C124603-42	70B9	Surface Soil	10/24/12 13:50
SWP209_1.0	C124603-43	70C0	Subsurface Soil	10/24/12 13:55
SWP210_0.5	C124603-44	70B7	Surface Soil	10/24/12 12:55
SWP210_1.0	C124603-45	70B8	Subsurface Soil	10/24/12 13:00
SWP9210_0.5	C124603-46	7164	Surface Soil	10/24/12 12:55
SWP211_0.5	C124603-47	7140	Surface Soil	10/24/12 15:30
SWP211_1.0	C124603-48	7141	Subsurface Soil	10/24/12 15:35
SWP202_0.5	C124603-49	7168	Surface Soil	10/29/12 09:45
SWP202_1.0	C124603-50	7169	Subsurface Soil	10/29/12 09:50
SWP9202_1.0	C124603-51	7170	Subsurface Soil	10/29/12 09:50
SWP203_0.5	C124603-52	7171	Surface Soil	10/29/12 10:30
SWP203_1.0	C124603-53	7172	Surface Soil	10/29/12 10:45
SWP9203_0.5	C124603-54	7173	Surface Soil	10/29/12 10:30
SWP204_0.5	C124603-55	70A2	Surface Soil	10/26/12 10:00
SWP204_1.0	C124603-56	70A3	Subsurface Soil	10/26/12 10:05
SWP103	C124603-57	7179	Sediment	10/27/12 10:30
SWP103SW	C124603-58	7189	Surface Water	10/27/12 10:30
SWP102	C124603-59	7178	Sediment	10/28/12 09:50
SWP102SW	C124603-60	7188	Surface Water	10/28/12 09:50
SWP207_0.5	C124603-61	7144	Surface Soil	10/25/12 10:10
SWP207_1.0	C124603-62	7145	Subsurface Soil	10/25/12 10:15
SWP9207_0.5	C124603-63	7167	Surface Soil	10/25/12 10:15
SWP214_0.5	C124603-64	7174	Surface Soil	10/29/12 08:45
SWP214_1.0	C124603-65	7175	Surface Soil	10/29/12 08:55
SWP212_0.5	C124603-66	7157	Surface Soil	10/26/12 08:50
SWP212_1.0	C124603-67	7158	Subsurface Soil	10/26/12 08:55
SWP205_1.0	C124603-68	70A4	Subsurface Soil	10/25/12 08:45
SWP205_1.5	C124603-69	70A6	Subsurface Soil	10/25/12 08:50
SWP213_0.5	C124603-70	7142	Surface Soil	10/24/12 15:55
SWP213_1.0	C124603-71	7143	Subsurface Soil	10/24/12 16:00
SWP206_0.5	C124603-72	7153	Surface Soil	10/25/12 15:45
SWP206_1.0	C124603-73	7154	Subsurface Soil	10/25/12 15:50
SWP108SW	C124603-74	7193	Surface Water	10/27/12 14:00

SWP111SW	C124603-75	7196	Surface Water	10/28/12 14:00
SWP109SW	C124603-76	7194	Surface Water	10/28/12 12:30
SWP112SW	C124603-77	7195	Surface Water	10/28/12 14:00

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP16	Initial Calibration Response Erratic
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QC-1	Analyte concentration low in continuing calibration verification standard
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate recovery less than 10%

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: EQB01 **Lab ID: C124603-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 7199 KAP**

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: EQB01 **Lab ID: C124603-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 7199 KAP**

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: EQB01 **Lab ID: C124603-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 7199 KAP**

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.099	J, CLP01	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-	7	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	7	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	8	J, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111 **Lab ID:** C124603-02 **MD No:**
Station ID: 092A-02-001/01.00 **Matrix:** Sediment **D No:** 7186 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111 **Lab ID:** C124603-02 **MD No:**
Station ID: 092A-02-001/01.00 **Matrix:** Sediment **D No:** 7186 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111 **Lab ID: C124603-02** **MD No:**

Station ID: 092A-02-001/01.00 **Matrix: Sediment** **D No: 7186 KAP**

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
38119-11-8	1-Naphthalenecarboxylic acid, 2-benzoyl-	300	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109 **Lab ID:** C124603-03 **MD No:**
Station ID: 092A-11-004/02.00 **Matrix:** Sediment **D No:** 7183 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109 **Lab ID:** C124603-03 **MD No:**
Station ID: 092A-11-004/02.00 **Matrix:** Sediment **D No:** 7183 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109 **Lab ID:** C124603-03 **MD No:**
Station ID: 092A-11-004/02.00 **Matrix:** Sediment **D No:** 7183 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)-	500	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108 **Lab ID:** C124603-04 **MD No:**
Station ID: 092A-12-004/01.00 **Matrix:** Sediment **D No:** 7182 KAP

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	30		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108 **Lab ID:** C124603-04 **MD No:**
Station ID: 092A-12-004/01.00 **Matrix:** Sediment **D No:** 7182 KAP

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	240	U, J, QC-1	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108 **Lab ID: C124603-04** **MD No:**

Station ID: 092A-12-004/01.00 **Matrix: Sediment** **D No: 7182 KAP**

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	470	U	ug/kg dry	470	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	240	U	ug/kg dry	240	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	700	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
59-02-9	Vitamin E	500	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112 **Lab ID:** C124603-05 **MD No:**
Station ID: 092B-03-006/00.00 **Matrix:** Sediment **D No:** 7184 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, CLP16	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U, J, QC-1, CLP16	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112 **Lab ID:** C124603-05 **MD No:**
Station ID: 092B-03-006/00.00 **Matrix:** Sediment **D No:** 7184 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112 **Lab ID:** C124603-05 **MD No:**
Station ID: 092B-03-006/00.00 **Matrix:** Sediment **D No:** 7184 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
56987-89-4	11,15-Dimethylheptatriacontane	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9112 **Lab ID:** C124603-06 **MD No:**

Station ID: 092B-03-006/00.00 **Matrix:** Sediment **D No:** 7185 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	6.0		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9112 **Lab ID:** C124603-06 **MD No:**
Station ID: 092B-03-006/00.00 **Matrix:** Sediment **D No:** 7185 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9112 **Lab ID: C124603-06** **MD No:**

Station ID: 092B-03-006/00.00 **Matrix: Sediment** **D No: 7185 KAP**

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	350	U	ug/kg dry	350	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	180	U	ug/kg dry	180	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	200	J, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113 **Lab ID: C124603-07** **MD No:**

Station ID: 092F **Matrix: Sediment** **D No: 7181 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113 **Lab ID: C124603-07** **MD No:**

Station ID: 092F **Matrix: Sediment** **D No: 7181 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113 **Lab ID: C124603-07** **MD No:**

Station ID: 092F **Matrix: Sediment** **D No: 7181 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113SW **Lab ID: C124603-08** **MD No:**
Station ID: 092F **Matrix: Surface Water** **D No: 7191 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.11		ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113SW **Lab ID: C124603-08** **MD No:**
Station ID: 092F **Matrix: Surface Water** **D No: 7191 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP113SW **Lab ID: C124603-08** **MD No:**
Station ID: 092F **Matrix: Surface Water** **D No: 7191 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	6	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9113SW **Lab ID:** C124603-09 **MD No:**
Station ID: 092F **Matrix:** Surface Water **D No:** 7192 KAP

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QC-1, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.12		ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9113SW **Lab ID: C124603-09** **MD No:**
Station ID: 092F **Matrix: Surface Water** **D No: 7192 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	11		ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9113SW **Lab ID: C124603-09** **MD No:**

Station ID: 092F **Matrix: Surface Water** **D No: 7192 KAP**

Date Collected: 10/27/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	20	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
301-02-0	9-Octadecenamide, (Z)-	30	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
5989-27-5	d-Limonene	20	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107 **Lab ID:** C124603-10 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Sediment **D No:** 7180 KAP

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	43		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107 **Lab ID:** C124603-10 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Sediment **D No:** 7180 KAP

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	270	J, CLP01	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	730		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	430		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	580		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	550		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	330		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	1000		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	1300		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	300	U, J, QC-1	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107 **Lab ID:** C124603-10 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Sediment **D No: 7180 KAP**

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	580	U	ug/kg dry	580	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	270	J, CLP01	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	300	U	ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	870		ug/kg dry	300	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107SW **Lab ID:** C124603-11 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Surface Water **D No:** 7190 KAP

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.13		ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107SW **Lab ID:** C124603-11 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Surface Water **D No:** 7190 KAP

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP107SW **Lab ID:** C124603-11 **MD No:**
Station ID: 092F-13D-157/00.00 **Matrix:** Surface Water **D No:** 7190 KAP

Date Collected: 10/28/12 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.099	J, CLP01	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-27-5	d-Limonene	20	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	9	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	7	J, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_0.5 **Lab ID:** C124603-12 **MD No:**
Station ID: 093D-19A-187/01.00 **Matrix:** Surface Soil **D No:** 70B3 KAP

Date Collected: 10/24/12 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_0.5 **Lab ID:** C124603-12 **MD No:**
Station ID: 093D-19A-187/01.00 **Matrix:** Surface Soil **D No:** 70B3 KAP

Date Collected: 10/24/12 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_0.5 **Lab ID:** C124603-12 **MD No:**
Station ID: 093D-19A-187/01.00 **Matrix:** Surface Soil **D No:** 70B3 KAP

Date Collected: 10/24/12 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
192-97-2	Benz[e]pyrene	300	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_1.0 **Lab ID:** C124603-13 **MD No:**

Station ID: 093D-19A-187/01.00 **Matrix:** Subsurface Soil **D No:** 70B4 KAP

Date Collected: 10/24/12 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_1.0 **Lab ID:** C124603-13 **MD No:**

Station ID: 093D-19A-187/01.00 **Matrix:** Subsurface Soil **D No:** 70B4 KAP

Date Collected: 10/24/12 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP218_1.0 **Lab ID:** C124603-13 **MD No:**

Station ID: 093D-19A-187/01.00 **Matrix:** Subsurface Soil **D No:** 70B4 KAP

Date Collected: 10/24/12 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
506-52-5	1-Hexacosanol	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_0.5 **Lab ID:** C124603-14 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Surface Soil **D No:** 7151 KAP

Date Collected: 10/25/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_0.5 **Lab ID:** C124603-14 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Surface Soil **D No:** 7151 KAP

Date Collected: 10/25/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_0.5 **Lab ID:** C124603-14 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Surface Soil **D No:** 7151 KAP

Date Collected: 10/25/12 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_1.0 **Lab ID:** C124603-15 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Subsurface Soil **D No:** 7152 KAP

Date Collected: 10/25/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U, J, QC-1, QS-4, CLP16	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U, J, CLP16	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_1.0 **Lab ID:** C124603-15 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Subsurface Soil **D No:** 7152 KAP

Date Collected: 10/25/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	120	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	140	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	400		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	150	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	260		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	110	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP225_1.0 **Lab ID:** C124603-15 **MD No:**
Station ID: 093D-19A-187/02.00 **Matrix:** Subsurface Soil **D No:** 7152 KAP

Date Collected: 10/25/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	170	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U, J, CLP16	ug/kg dry	360	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	130	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
479-79-8	11H-Benzo[a]fluoren-11-one	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	600	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_0.5 **Lab ID:** C124603-16 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Surface Soil **D No:** 7138 KAP

Date Collected: 10/24/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U, J, QC-1, CLP16	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_0.5 **Lab ID:** C124603-16 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Surface Soil **D No:** 7138 KAP

Date Collected: 10/24/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_0.5 **Lab ID:** C124603-16 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Surface Soil **D No:** 7138 KAP

Date Collected: 10/24/12 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_1.0 **Lab ID:** C124603-17 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Subsurface Soil **D No:** 7139 KAP

Date Collected: 10/24/12 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, QC-1, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_1.0 **Lab ID:** C124603-17 **MD No:**

Station ID: 093D-19A-212/00.00 **Matrix:** Subsurface Soil **D No:** 7139 KAP

Date Collected: 10/24/12 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	300		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP215_1.0 **Lab ID:** C124603-17 **MD No:**
Station ID: 093D-19A-212/00.00 **Matrix:** Subsurface Soil **D No:** 7139 KAP

Date Collected: 10/24/12 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	300	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_0.5 **Lab ID:** C124603-18 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Surface Soil **D No:** 70B5 KAP

Date Collected: 10/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_0.5 **Lab ID:** C124603-18 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Surface Soil **D No:** 70B5 KAP

Date Collected: 10/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200		ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_0.5 **Lab ID:** C124603-18 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Surface Soil **D No:** 70B5 KAP

Date Collected: 10/29/12 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_1.0 **Lab ID:** C124603-19 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Subsurface Soil **D No:** 70B6 KAP

Date Collected: 10/24/12 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/03/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_1.0 **Lab ID:** C124603-19 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Subsurface Soil **D No:** 70B6 KAP

Date Collected: 10/24/12 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP216_1.0 **Lab ID:** C124603-19 **MD No:**
Station ID: 093D-19A-218/00.00 **Matrix:** Subsurface Soil **D No:** 70B6 KAP

Date Collected: 10/24/12 12:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/12	11/14/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		11/03/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_0.5 **Lab ID:** C124603-20 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Surface Soil **D No:** 70B1 KAP

Date Collected: 10/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U, J, QC-1, CLP16	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_0.5 **Lab ID:** C124603-20 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Surface Soil **D No:** 70B1 KAP

Date Collected: 10/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, QC-1	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_0.5 **Lab ID:** C124603-20 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Surface Soil **D No:** 70B1 KAP

Date Collected: 10/24/12 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
506-52-5	1-Hexacosanol	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_1.0 **Lab ID:** C124603-21 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Subsurface Soil **D No:** 70B2 KAP

Date Collected: 10/24/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U, J, QC-1, CLP16	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_1.0 **Lab ID:** C124603-21 **MD No:**
Station ID: 093D-19A-219/00.00 **Matrix:** Subsurface Soil **D No:** 70B2 KAP

Date Collected: 10/24/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U, J, QC-1	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	400		ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP217_1.0 **Lab ID: C124603-21** **MD No:**

Station ID: 093D-19A-219/00.00 **Matrix: Subsurface Soil** **D No: 70B2 KAP**

Date Collected: 10/24/12 10:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, QC-1, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U, J, CLP16	ug/kg dry	220	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
112-84-5	13-Docosenamide, (Z)-	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	900	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
3386-33-2	Octadecane, 1-chloro-	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_0.5 **Lab ID:** C124603-22 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Surface Soil **D No:** 7146 KAP

Date Collected: 10/25/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, CLP16, QC-1	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_0.5 **Lab ID:** C124603-22 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Surface Soil **D No:** 7146 KAP

Date Collected: 10/25/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230		ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_0.5 **Lab ID:** C124603-22 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Surface Soil **D No:** 7146 KAP

Date Collected: 10/25/12 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
18835-32-0	1-Tricosene	600	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_1.0 **Lab ID:** C124603-23 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7147 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_1.0 **Lab ID:** C124603-23 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7147 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	360		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP224_1.0 **Lab ID:** C124603-23 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7147 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
18835-32-0	1-Tricosene	700	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
559-74-0	Friedelan-3-one	3000	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9224_1.0 **Lab ID:** C124603-24 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7166 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, QC-1, CLP16	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9224_1.0 **Lab ID:** C124603-24 **MD No:**
Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7166 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9224_1.0 **Lab ID:** C124603-24 **MD No:**

Station ID: 093D-19A-224/00.00 **Matrix:** Subsurface Soil **D No:** 7166 KAP

Date Collected: 10/25/12 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_0.5 **Lab ID:** C124603-25 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7197 KAP

Date Collected: 10/27/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_0.5 **Lab ID:** C124603-25 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7197 KAP

Date Collected: 10/27/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	J, CLP01	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	J, CLP01	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_0.5 **Lab ID:** C124603-25 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7197 KAP

Date Collected: 10/27/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	230	U	ug/kg dry	230	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	300	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_1.0 **Lab ID:** C124603-26 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7198 KAP

Date Collected: 10/27/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_1.0 **Lab ID:** C124603-26 **MD No:**
Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7198 KAP

Date Collected: 10/27/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220		ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	150	J, CLP01	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP222_1.0 **Lab ID:** C124603-26 **MD No:**

Station ID: 093D-19A-227/00.00 **Matrix:** Surface Soil **D No:** 7198 KAP

Date Collected: 10/27/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_0.5 **Lab ID:** C124603-27 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Surface Soil **D No:** 7149 KAP

Date Collected: 10/25/12 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, QS-4, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_0.5 **Lab ID:** C124603-27 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Surface Soil **D No:** 7149 KAP

Date Collected: 10/25/12 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_0.5 **Lab ID:** C124603-27 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Surface Soil **D No:** 7149 KAP

Date Collected: 10/25/12 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, QS-3	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_1.0 **Lab ID:** C124603-28 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Subsurface Soil **D No:** 7150 KAP

Date Collected: 10/25/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_1.0 **Lab ID:** C124603-28 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Subsurface Soil **D No:** 7150 KAP

Date Collected: 10/25/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	310		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP223_1.0 **Lab ID:** C124603-28 **MD No:**
Station ID: 093D-19A-229/00.00 **Matrix:** Subsurface Soil **D No:** 7150 KAP

Date Collected: 10/25/12 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101SW **Lab ID:** C124603-29 **MD No:**
Station ID: 093D-19A-232/00.00 **Matrix:** Surface Water **D No:** 7187 KAP

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, QS-3, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.32		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.063	J, CLP01	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101SW **Lab ID:** C124603-29 **MD No:**
Station ID: 093D-19A-232/00.00 **Matrix:** Surface Water **D No:** 7187 KAP

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101SW **Lab ID: C124603-29** **MD No:**

Station ID: 093D-19A-232/00.00 **Matrix: Surface Water** **D No: 7187 KAP**

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.33		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	10/31/12	11/12/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-	10	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			10/31/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	20	J, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101 **Lab ID:** C124603-30 **MD No:**
Station ID: 093D-19A-232/00/00 **Matrix:** Sediment **D No:** 7177 KAP

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101 **Lab ID:** C124603-30 **MD No:**
Station ID: 093D-19A-232/00/00 **Matrix:** Sediment **D No:** 7177 KAP

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	500		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	350		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	470		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180	J, CLP01	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	390		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	590		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	990		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP101 **Lab ID: C124603-30** **MD No:**

Station ID: 093D-19A-232/00/00 **Matrix: Sediment** **D No: 7177 KAP**

Date Collected: 10/27/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	180	J, CLP01	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	230		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	260		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	680		ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)-	400	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
239-35-0	Benzo[b]naphtho[2,1-d]thiophene	400	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_0.5 **Lab ID:** C124603-31 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Surface Soil **D No:** 7160 KAP

Date Collected: 10/26/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		11/01/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_0.5 **Lab ID:** C124603-31 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Surface Soil **D No:** 7160 KAP

Date Collected: 10/26/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_0.5 **Lab ID:** C124603-31 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Surface Soil **D No:** 7160 KAP

Date Collected: 10/26/12 11:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U, J, CLP16	ug/kg dry	390	11/01/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
17851-53-5	1,2-Benzenedicarboxylic acid, butyl 2-methylpropyl	400	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_1.0 **Lab ID:** C124603-32 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Subsurface Soil **D No:** 7161 KAP

Date Collected: 10/26/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/02/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, CLP16, QC-1	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_1.0 **Lab ID:** C124603-32 **MD No:**
Station ID: 093D-19A-233/00.00 **Matrix:** Subsurface Soil **D No:** 7161 KAP

Date Collected: 10/26/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP221_1.0 **Lab ID:** C124603-32 **MD No:**

Station ID: 093D-19A-233/00.00 **Matrix:** Subsurface Soil **D No:** 7161 KAP

Date Collected: 10/26/12 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/02/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/02/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	700	J, CLP15	ug/kg dry		11/02/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_0.5 **Lab ID:** C124603-33 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Surface Soil **D No:** 70A7 KAP

Date Collected: 10/24/12 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, QC-1, CLP16	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_0.5 **Lab ID:** C124603-33 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Surface Soil **D No:** 70A7 KAP

Date Collected: 10/24/12 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_0.5 **Lab ID:** C124603-33 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Surface Soil **D No:** 70A7 KAP

Date Collected: 10/24/12 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
17851-53-5	1,2-Benzenedicarboxylic acid, butyl 2-methylpropyl	300	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
71502-22-2	9-Hexacosene	300	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_1.0 **Lab ID:** C124603-34 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Subsurface Soil **D No:** 70A8 KAP

Date Collected: 10/24/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_1.0 **Lab ID:** C124603-34 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Subsurface Soil **D No:** 70A8 KAP

Date Collected: 10/24/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U, J, QC-1	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP220_1.0 **Lab ID:** C124603-34 **MD No:**
Station ID: 093D-19A-236/00.00 **Matrix:** Subsurface Soil **D No:** 70A8 KAP

Date Collected: 10/24/12 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	300	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	700	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
3386-33-2	Octadecane, 1-chloro-	300	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_1.0 **Lab ID:** C124603-35 **MD No:**

Station ID: 093D-19A-239/00.00 **Matrix:** Subsurface Soil **D No:** 70B0 KAP

Date Collected: 10/24/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_1.0 **Lab ID:** C124603-35 **MD No:**
Station ID: 093D-19A-239/00.00 **Matrix:** Subsurface Soil **D No:** 70B0 KAP

Date Collected: 10/24/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_1.0 **Lab ID:** C124603-35 **MD No:**

Station ID: 093D-19A-239/00.00 **Matrix:** Subsurface Soil **D No:** 70B0 KAP

Date Collected: 10/24/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
18835-33-1	1-Hexacosene	900	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_0.5 **Lab ID:** C124603-36 **MD No:**
Station ID: 093D-19A-239-00.00 **Matrix:** Surface Soil **D No:** 70A9 KAP

Date Collected: 10/24/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, QC-1, CLP16	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_0.5 **Lab ID:** C124603-36 **MD No:**
Station ID: 093D-19A-239-00.00 **Matrix:** Surface Soil **D No:** 70A9 KAP

Date Collected: 10/24/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	260		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP219_0.5 **Lab ID:** C124603-36 **MD No:**
Station ID: 093D-19A-239-00.00 **Matrix:** Surface Soil **D No:** 70A9 KAP

Date Collected: 10/24/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	700	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
930-02-9	Octadecane, 1-(ethenyloxy)-	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
1000111-38-9	Z,Z-6,25-Tetratriactontadien-2-one	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_0.5 **Lab ID:** C124603-37 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Surface Soil **D No:** 7155 KAP

Date Collected: 10/26/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/01/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_0.5 **Lab ID:** C124603-37 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Surface Soil **D No:** 7155 KAP

Date Collected: 10/26/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_0.5 **Lab ID:** C124603-37 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Surface Soil **D No:** 7155 KAP

Date Collected: 10/26/12 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_1.0 **Lab ID:** C124603-38 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Subsurface Soil **D No:** 7156 KAP

Date Collected: 10/26/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/01/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_1.0 **Lab ID:** C124603-38 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Subsurface Soil **D No:** 7156 KAP

Date Collected: 10/26/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP208_1.0 **Lab ID:** C124603-38 **MD No:**
Station ID: 093D-19A-241/00.00 **Matrix:** Subsurface Soil **D No:** 7156 KAP

Date Collected: 10/26/12 8:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	600	J, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_0.5 **Lab ID:** C124603-39 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Surface Soil **D No:** 70A0 KAP

Date Collected: 10/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, J, QC-1, CLP16	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_0.5 **Lab ID:** C124603-39 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Surface Soil **D No:** 70A0 KAP

Date Collected: 10/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	83	J, CLP01, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_0.5 **Lab ID:** C124603-39 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Surface Soil **D No:** 70A0 KAP

Date Collected: 10/24/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	700	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_1.0 **Lab ID:** C124603-40 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 70A1 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_1.0 **Lab ID:** C124603-40 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 70A1 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP201_1.0 **Lab ID:** C124603-40 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 70A1 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	1000	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9201_1.0 **Lab ID:** C124603-41 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 7162 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/02/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9201_1.0 **Lab ID:** C124603-41 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 7162 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9201_1.0 **Lab ID:** C124603-41 **MD No:**
Station ID: 093D-19A-245/00.00 **Matrix:** Subsurface Soil **D No:** 7162 KAP

Date Collected: 10/24/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/02/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/02/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_0.5 **Lab ID:** C124603-42 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Surface Soil **D No:** 70B9 KAP

Date Collected: 10/24/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_0.5 **Lab ID:** C124603-42 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Surface Soil **D No:** 70B9 KAP

Date Collected: 10/24/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	270		ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_0.5 **Lab ID:** C124603-42 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Surface Soil **D No:** 70B9 KAP

Date Collected: 10/24/12 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/03/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U	ug/kg dry	190	11/03/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
3687-45-4	9-Octadecenoic acid (Z)-, 9-octadecenyl ester, (Z)	800	NJ, CLP15	ug/kg dry		11/03/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/12	11/14/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_1.0 **Lab ID:** C124603-43 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Subsurface Soil **D No:** 70C0 KAP

Date Collected: 10/24/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_1.0 **Lab ID:** C124603-43 **MD No:**

Station ID: 093D-19A-247/00.00 **Matrix:** Subsurface Soil **D No:** 70C0 KAP

Date Collected: 10/24/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP209_1.0 **Lab ID:** C124603-43 **MD No:**
Station ID: 093D-19A-247/00.00 **Matrix:** Subsurface Soil **D No:** 70C0 KAP

Date Collected: 10/24/12 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_0.5 **Lab ID:** C124603-44 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 70B7 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_0.5 **Lab ID:** C124603-44 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 70B7 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	240		ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_0.5 **Lab ID:** C124603-44 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 70B7 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, QC-1, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-47-6	.gamma.-Sitosterol	800	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_1.0 **Lab ID:** C124603-45 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Subsurface Soil **D No:** 70B8 KAP

Date Collected: 10/24/12 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	10		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U, J, CLP16, QC-1	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_1.0 **Lab ID:** C124603-45 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Subsurface Soil **D No:** 70B8 KAP

Date Collected: 10/24/12 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP210_1.0 **Lab ID:** C124603-45 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Subsurface Soil **D No:** 70B8 KAP

Date Collected: 10/24/12 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9210_0.5 **Lab ID:** C124603-46 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 7164 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9210_0.5 **Lab ID:** C124603-46 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 7164 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9210_0.5 **Lab ID:** C124603-46 **MD No:**
Station ID: 093D-19A-250/00.00 **Matrix:** Surface Soil **D No:** 7164 KAP

Date Collected: 10/24/12 12:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			11/02/12	11/13/12	CLP SOM01.2 B
1058-61-3	Stigmast-4-en-3-one	400	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_0.5 **Lab ID:** C124603-47 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Surface Soil **D No:** 7140 KAP

Date Collected: 10/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, CLP16, QC-1	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_0.5 **Lab ID:** C124603-47 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Surface Soil **D No:** 7140 KAP

Date Collected: 10/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	170	J, CLP01	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	300		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	350		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	730		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	240		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	480		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	86	J, CLP01	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	620		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	91	J, CLP01	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	510		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_0.5 **Lab ID:** C124603-47 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Surface Soil **D No:** 7140 KAP

Date Collected: 10/24/12 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	260		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	500		ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
25615-11-6	A'-Neogammacer-22(29)-en-3-one	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
198-55-0	Perylene	700	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_1.0 **Lab ID:** C124603-48 **MD No:**

Station ID: 093D-19A-256/00.00 **Matrix:** Subsurface Soil **D No:** 7141 KAP

Date Collected: 10/24/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U, J, CLP16, QC-1	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_1.0 **Lab ID:** C124603-48 **MD No:**

Station ID: 093D-19A-256/00.00 **Matrix:** Subsurface Soil **D No:** 7141 KAP

Date Collected: 10/24/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	90	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	170	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	390		ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	130	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	260		ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	410		ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	570		ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, CLP16	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP211_1.0 **Lab ID:** C124603-48 **MD No:**
Station ID: 093D-19A-256/00.00 **Matrix:** Subsurface Soil **D No:** 7141 KAP

Date Collected: 10/24/12 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	140	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	130	J, CLP01	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	440		ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
479-79-8	11H-Benzo[a]fluoren-11-one	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
506-51-4	1-Tetracosanol	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_0.5 **Lab ID:** C124603-49 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Surface Soil **D No:** 7168 KAP

Date Collected: 10/29/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	11		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, QC-1, CLP16	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_0.5 **Lab ID:** C124603-49 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Surface Soil **D No:** 7168 KAP

Date Collected: 10/29/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_0.5 **Lab ID:** C124603-49 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Surface Soil **D No:** 7168 KAP

Date Collected: 10/29/12 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_1.0 **Lab ID:** C124603-50 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7169 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U, J, CLP16, QC-1	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_1.0 **Lab ID:** C124603-50 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7169 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP202_1.0 **Lab ID:** C124603-50 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7169 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	180	U	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	180	U, J, CLP16	ug/kg dry	180	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9202_1.0 **Lab ID:** C124603-51 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7170 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	9.0		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	360	U, J, CLP16	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	360	U, J, CLP16, QC-1	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9202_1.0 **Lab ID:** C124603-51 **MD No:**

Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7170 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9202_1.0 **Lab ID:** C124603-51 **MD No:**
Station ID: 093D-19A-266/00.00 **Matrix:** Subsurface Soil **D No:** 7170 KAP

Date Collected: 10/29/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	360	U	ug/kg dry	360	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	190	U, J, CLP16	ug/kg dry	190	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
1599-67-3	1-Docosene	400	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_0.5 **Lab ID:** C124603-52 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7171 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, CLP16, QC-1	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_0.5 **Lab ID:** C124603-52 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7171 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	160	J, CLP01, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	370		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	410		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	800		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	610		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	97	J, CLP01	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	840		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	110	J, CLP01	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	960	J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_0.5 **Lab ID:** C124603-52 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7171 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230		ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	140	J, CLP01	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	900	J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
638-95-9	.alpha.-Amyrin	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
661-19-8	1-Docosanol	600	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_1.0 **Lab ID:** C124603-53 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7172 KAP

Date Collected: 10/29/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		11/05/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_1.0 **Lab ID:** C124603-53 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7172 KAP

Date Collected: 10/29/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	260		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	260		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	520		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	180	J, CLP01	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	420		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	550		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	440		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP203_1.0 **Lab ID:** C124603-53 **MD No:**

Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7172 KAP

Date Collected: 10/29/12 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	J, CLP01	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/05/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	410		ug/kg dry	200	11/05/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
192-65-4	1,2:4,5-Dibenzopyrene	400	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B
1000197-99-5	Decanoic acid, 10-(2-hexylcyclopropyl)	500	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B
207-93-2	Dinaphtho[1,2-b:1',2'-d]furan	400	NJ, CLP15	ug/kg dry		11/05/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9203_0.5 **Lab ID:** C124603-54 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7173 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9203_0.5 **Lab ID:** C124603-54 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7173 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	230		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	570		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	560		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1200		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	400		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	760		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	160	J, CLP01	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	1100		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	930		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, QC-1	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9203_0.5 **Lab ID:** C124603-54 **MD No:**
Station ID: 093D-19A-279/01.00 **Matrix:** Surface Soil **D No:** 7173 KAP

Date Collected: 10/29/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	420		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	890		ug/kg dry	200	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	400	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
84-65-1	9,10-Anthracenedione	400	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
2541-69-7	Benz[a]anthracene, 7-methyl-	300	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_0.5 **Lab ID:** C124603-55 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Surface Soil **D No:** 70A2 KAP

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, CLP16	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U, J, CLP16, QC-1	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_0.5 **Lab ID:** C124603-55 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Surface Soil **D No:** 70A2 KAP

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	95	J, CLP01	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	J, CLP01, CLP16	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U, J, QC-1	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	640		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	690		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1200		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	560		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1100		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	140	J, CLP01	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	1200		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	270		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U, J, CLP16	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U, J, CLP16	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	910	J, CLP16	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_0.5 **Lab ID:** C124603-55 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Surface Soil **D No:** 70A2 KAP

Date Collected: 10/26/12 10:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, CLP16, QC-1	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	590		ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	230	U	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	870	J, CLP16	ug/kg dry	230	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-65-1	9,10-Anthracenedione	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_1.0 **Lab ID:** C124603-56 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Subsurface Soil **D No:** 70A3 KAP

Date Collected: 10/26/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, CLP16, QC-1	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_1.0 **Lab ID:** C124603-56 **MD No:**

Station ID: 093D-19A-279/02.00 **Matrix:** Subsurface Soil **D No:** 70A3 KAP

Date Collected: 10/26/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	J, CLP01, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U, J, QC-1	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	610		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	580		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1000		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	320		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	780		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	120	J, CLP01	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	1100		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	150	J, CLP01	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	930	J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP204_1.0 **Lab ID:** C124603-56 **MD No:**
Station ID: 093D-19A-279/02.00 **Matrix:** Subsurface Soil **D No:** 70A3 KAP

Date Collected: 10/26/12 10:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16, QC-1	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	340		ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	100	J, CLP01	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	970	J, CLP16	ug/kg dry	210	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-65-1	9,10-Anthracenedione	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
192-97-2	Benzo[e]pyrene	300	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
2789-88-0	di-p-Tolylacetylene	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103 **Lab ID:** C124603-57 **MD No:**
Station ID: 093D-19B-295/00.00 **Matrix:** Sediment **D No:** 7179 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	32		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	730		ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	490	U, J, CLP16	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	490	U, J, CLP16, QC-1	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	490	U	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	490	U	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	490	U	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	490	U	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103 **Lab ID:** C124603-57 **MD No:**
Station ID: 093D-19B-295/00.00 **Matrix:** Sediment **D No:** 7179 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	1400	J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	700		ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	240	J, CLP01	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	230	J, CLP01	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	250		ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	840		ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	250	U, J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	250	U, J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	2100	J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	140	J, CLP01	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	250	U, J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103 **Lab ID:** C124603-57 **MD No:**
Station ID: 093D-19B-295/00.00 **Matrix:** Sediment **D No:** 7179 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	490	U	ug/kg dry	490	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	1000		ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	250	U	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	1300	J, CLP16	ug/kg dry	250	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
83-46-5	.beta.-Sitosterol	1000	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
59-02-9	Vitamin E	2000	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103SW **Lab ID:** C124603-58 **MD No:**
Station ID: 093D-19B-295/00.00 **Matrix:** Surface Water **D No:** 7189 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.12		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103SW **Lab ID:** C124603-58 **MD No:**
Station ID: 093D-19B-295/00.00 **Matrix:** Surface Water **D No:** 7189 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.11		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP103SW **Lab ID:** C124603-58 **MD No:**

Station ID: 093D-19B-295/00.00 **Matrix:** Surface Water **D No:** 7189 KAP

Date Collected: 10/27/12 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.090	J, CLP01	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	10/31/12	11/12/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.13		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-27-5	d-Limonene	20	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	9	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	8	J, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102 **Lab ID:** C124603-59 **MD No:**
Station ID: 093D-19B-317/00.00 **Matrix:** Sediment **D No:** 7178 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	440	U, J, CLP16	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	440	U, J, CLP16, QC-1	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102 **Lab ID:** C124603-59 **MD No:**
Station ID: 093D-19B-317/00.00 **Matrix:** Sediment **D No:** 7178 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	J, CLP01	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	390		ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	160	J, CLP01	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	710	J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	230	U, J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102 **Lab ID:** C124603-59 **MD No:**
Station ID: 093D-19B-317/00.00 **Matrix:** Sediment **D No:** 7178 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	92	J, CLP01	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	230	U	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	490	J, CLP16	ug/kg dry	230	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
120-55-8	Diethylene glycol dibenzoate	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102SW **Lab ID:** C124603-60 **MD No:**
Station ID: 093D-19B-317/00.00 **Matrix:** Surface Water **D No:** 7188 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.12		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.12		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102SW **Lab ID:** C124603-60 **MD No:**
Station ID: 093D-19B-317/00.00 **Matrix:** Surface Water **D No:** 7188 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10		ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP102SW **Lab ID:** C124603-60 **MD No:**

Station ID: 093D-19B-317/00.00 **Matrix:** Surface Water **D No:** 7188 KAP

Date Collected: 10/28/12 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.094	J, CLP01	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	10/31/12	11/12/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/12/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-	20	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	10	NJ, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	8	J, CLP15	ug/L		10/31/12	11/13/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_0.5 **Lab ID:** C124603-61 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7144 KAP

Date Collected: 10/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, CLP16, QC-1	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_0.5 **Lab ID:** C124603-61 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7144 KAP

Date Collected: 10/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_0.5 **Lab ID:** C124603-61 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7144 KAP

Date Collected: 10/25/12 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U, J, CLP16	ug/kg dry	410	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
40710-42-7	1-Hentetracontanol	700	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	700	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_1.0 **Lab ID:** C124603-62 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Subsurface Soil **D No:** 7145 KAP

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_1.0 **Lab ID:** C124603-62 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Subsurface Soil **D No:** 7145 KAP

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP207_1.0 **Lab ID: C124603-62** **MD No:**

Station ID: 093D-20B-127/00.00 **Matrix: Subsurface Soil** **D No: 7145 KAP**

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U	ug/kg dry	200	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
506-52-5	1-Hexacosanol	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	800	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9207_0.5 **Lab ID:** C124603-63 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7167 KAP

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U, J, CLP16, QC-1	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9207_0.5 **Lab ID:** C124603-63 **MD No:**
Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7167 KAP

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP9207_0.5 **Lab ID:** C124603-63 **MD No:**

Station ID: 093D-20B-127/00.00 **Matrix:** Surface Soil **D No:** 7167 KAP

Date Collected: 10/25/12 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U, J, CLP16	ug/kg dry	210	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
6971-40-0	17-Pentatriacontene	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_0.5 **Lab ID:** C124603-64 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7174 KAP

Date Collected: 10/29/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		11/02/12	11/14/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_0.5 **Lab ID:** C124603-64 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7174 KAP

Date Collected: 10/29/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, QC-1	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_0.5 **Lab ID:** C124603-64 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7174 KAP

Date Collected: 10/29/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	11/02/12	11/14/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/02/12	11/14/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	900	J, CLP15	ug/kg dry		11/02/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_1.0 **Lab ID:** C124603-65 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7175 KAP

Date Collected: 10/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		11/02/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, CLP16, QC-1	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_1.0 **Lab ID:** C124603-65 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7175 KAP

Date Collected: 10/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP214_1.0 **Lab ID:** C124603-65 **MD No:**
Station ID: 093D-20B-221/00.00 **Matrix:** Surface Soil **D No:** 7175 KAP

Date Collected: 10/29/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	11/02/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	200	U, J, CLP16	ug/kg dry	200	11/02/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/02/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_0.5 **Lab ID:** C124603-66 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Surface Soil **D No:** 7157 KAP

Date Collected: 10/26/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		11/01/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U, J, CLP16	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	420	U, J, CLP16	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_0.5 **Lab ID:** C124603-66 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Surface Soil **D No:** 7157 KAP

Date Collected: 10/26/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	230		ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, CLP16	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_0.5 **Lab ID:** C124603-66 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Surface Soil **D No:** 7157 KAP

Date Collected: 10/26/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	420	U, J, CLP16	ug/kg dry	420	11/01/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	400	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_1.0 **Lab ID:** C124603-67 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Subsurface Soil **D No:** 7158 KAP

Date Collected: 10/26/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/01/12	11/13/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_1.0 **Lab ID:** C124603-67 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Subsurface Soil **D No:** 7158 KAP

Date Collected: 10/26/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP212_1.0 **Lab ID:** C124603-67 **MD No:**
Station ID: 093D-20B-227/00.00 **Matrix:** Subsurface Soil **D No:** 7158 KAP

Date Collected: 10/26/12 8:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/13/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	400	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	500	NJ, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		11/01/12	11/13/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.0 **Lab ID:** C124603-68 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A4 KAP

Date Collected: 10/25/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.0 **Lab ID:** C124603-68 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A4 KAP

Date Collected: 10/25/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U, J, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	97	J, CLP01	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	180	J, CLP01	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	81	J, CLP01	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	120	J, CLP01	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	160	J, CLP01	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U, J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	J, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.0 **Lab ID:** C124603-68 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A4 KAP

Date Collected: 10/25/12 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16, QC-1	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	180	J, CLP01, CLP16	ug/kg dry	190	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl)	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/03/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.5 **Lab ID:** C124603-69 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A6 KAP

Date Collected: 10/25/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		11/03/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.5 **Lab ID:** C124603-69 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A6 KAP

Date Collected: 10/25/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	200	U, J, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	170	J, CLP01	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	290		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	110	J, CLP01	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	250		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	490		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	350		ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	200	U, J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP205_1.5 **Lab ID:** C124603-69 **MD No:**
Station ID: 093D-20B-235/00.00 **Matrix:** Subsurface Soil **D No:** 70A6 KAP

Date Collected: 10/25/12 8:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	200	U, J, CLP16, QC-1	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	110	J, CLP01	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	11/03/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	200	U	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	250	J, CLP16	ug/kg dry	200	11/03/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
112-84-5	13-Docosenamide, (Z)-	500	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
301-02-0	9-Octadecenamide, (Z)-	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	800	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B
3386-33-2	Octadecane, 1-chloro-	400	NJ, CLP15	ug/kg dry		11/03/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_0.5 **Lab ID:** C124603-70 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Surface Soil **D No:** 7142 KAP

Date Collected: 10/24/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, J, QC-1, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_0.5 **Lab ID:** C124603-70 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Surface Soil **D No:** 7142 KAP

Date Collected: 10/24/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	210	U, J, CLP16	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_0.5 **Lab ID:** C124603-70 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Surface Soil **D No:** 7142 KAP

Date Collected: 10/24/12 15:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	400	U, J, CLP16	ug/kg dry	400	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	210	U	ug/kg dry	210	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
27519-02-4	9-Tricosene, (Z)-	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_1.0 **Lab ID:** C124603-71 **MD No:**
Station ID: 093D-20B-240/03.00 **Matrix:** Subsurface Soil **D No:** 7143 KAP

Date Collected: 10/24/12 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U, J, CLP16, QC-1	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_1.0 **Lab ID:** C124603-71 **MD No:**

Station ID: 093D-20B-240/03.00 **Matrix:** Subsurface Soil **D No:** 7143 KAP

Date Collected: 10/24/12 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	220	U, J, CLP16	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP213_1.0 **Lab ID:** C124603-71 **MD No:**

Station ID: 093D-20B-240/03.00 **Matrix:** Subsurface Soil **D No:** 7143 KAP

Date Collected: 10/24/12 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	430	U, J, CLP16	ug/kg dry	430	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	220	U	ug/kg dry	220	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_0.5 **Lab ID:** C124603-72 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Surface Soil **D No:** 7153 KAP

Date Collected: 10/25/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U, J, CLP16, QC-1	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	380		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_0.5 **Lab ID:** C124603-72 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Surface Soil **D No:** 7153 KAP

Date Collected: 10/25/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	660		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	2500		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	2100		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	2800		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	1700		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1400		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	800		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	2600		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	570		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	150	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	5900		ug/kg dry	960	11/01/12	11/13/12	CLP SOM01.2 B
86-73-7	Fluorene	250		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_0.5 **Lab ID:** C124603-72 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Surface Soil **D No:** 7153 KAP

Date Collected: 10/25/12 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	1600		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	90	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	370	U, J, CLP16	ug/kg dry	370	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	2700		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	4000		ug/kg dry	960	11/01/12	11/13/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
479-79-8	11H-Benzo[a]fluoren-11-one	300	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
226-88-0	Benzo[a]naphthacene	600	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
215-58-7	Benzo[b]triphenylene	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
191-26-4	Dibenzo[def,mno]chrysene	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
207-93-2	Dinaphtho[1,2-b:1',2'-d]furan	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	5000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_1.0 **Lab ID:** C124603-73 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Subsurface Soil **D No:** 7154 KAP

Date Collected: 10/25/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		11/01/12	11/12/12	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, CLP16, QC-1	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
95-48-7	2-Methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	380	U	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	380	U, J, CLP16	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
83-32-9	Acenaphthene	110	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_1.0 **Lab ID:** C124603-73 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Subsurface Soil **D No:** 7154 KAP

Date Collected: 10/25/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	250		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-86-2	Acetophenone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
120-12-7	Anthracene	860		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
1912-24-9	Atrazine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	880		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
205-99-2	Benzo(b)fluoranthene	1700		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
191-24-2	Benzo(g,h,i)perylene	1100		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
207-08-9	Benzo(k)fluoranthene	1200		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	570		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
105-60-2	Caprolactam	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-74-8	Carbazole	300		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
218-01-9	Chrysene	1000		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
53-70-3	Dibenzo(a,h)anthracene	370		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
132-64-9	Dibenzofuran	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
206-44-0	Fluoranthene	1700		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
86-73-7	Fluorene	83	J, CLP01	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	190	U, J, CLP16	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP206_1.0 **Lab ID:** C124603-73 **MD No:**
Station ID: 093D-20B-241/00.00 **Matrix:** Subsurface Soil **D No:** 7154 KAP

Date Collected: 10/25/12 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
193-39-5	Indeno (1,2,3-cd) pyrene	1100		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
78-59-1	Isophorone	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
91-20-3	Naphthalene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	380	U, J, CLP16	ug/kg dry	380	11/01/12	11/12/12	CLP SOM01.2 B
85-01-8	Phenanthrene	940		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
108-95-2	Phenol	190	U	ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
129-00-0	Pyrene	1300		ug/kg dry	190	11/01/12	11/12/12	CLP SOM01.2 B
Tentatively Identified Compounds:								
479-79-8	11H-Benzo[a]fluoren-11-one	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
35099-60-6	1H-Indene, 2-methyl-3-phenyl-	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
84-65-1	9,10-Anthracenedione	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
1210-12-4	9-Anthracenecarbonitrile	500	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
613-12-7	Anthracene, 2-methyl-	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
5737-13-3	Cyclopenta(def)phenanthrenone	600	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	600	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			11/01/12	11/12/12	CLP SOM01.2 B
2531-84-2	Phenanthrene, 2-methyl-	400	NJ, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		11/01/12	11/12/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108SW **Lab ID:** C124603-74 **MD No:**
Station ID: 902A-12-004/01.00 **Matrix:** Surface Water **D No:** 7193 KAP

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16, QC-1	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108SW **Lab ID:** C124603-74 **MD No:**
Station ID: 902A-12-004/01.00 **Matrix:** Surface Water **D No:** 7193 KAP

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10		ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP108SW **Lab ID:** C124603-74 **MD No:**

Station ID: 902A-12-004/01.00 **Matrix:** Surface Water **D No:** 7193 KAP

Date Collected: 10/27/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-54-8	Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (S)-	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
1000130-97-9	E-15-Heptadecenal	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111SW **Lab ID:** C124603-75 **MD No:**
Station ID: 92A-02-001/01.00 **Matrix:** Surface Water **D No:** 7196 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16, QC-1	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.21		ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111SW **Lab ID:** C124603-75 **MD No:**
Station ID: 92A-02-001/01.00 **Matrix:** Surface Water **D No:** 7196 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP111SW **Lab ID: C124603-75** **MD No:**

Station ID: 92A-02-001/01.00 **Matrix: Surface Water** **D No: 7196 KAP**

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
57-10-3	n-Hexadecanoic acid	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
R4-6500	Petroleum Product:		N, CLP15			10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109SW **Lab ID:** C124603-76 **MD No:**
Station ID: 92A-11-004/02.00 **Matrix:** Surface Water **D No:** 7194 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16, QC-1	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109SW **Lab ID:** C124603-76 **MD No:**
Station ID: 92A-11-004/02.00 **Matrix:** Surface Water **D No:** 7194 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP109SW **Lab ID:** C124603-76 **MD No:**
Station ID: 92A-11-004/02.00 **Matrix:** Surface Water **D No:** 7194 KAP

Date Collected: 10/28/12 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
5989-27-5	d-Limonene	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
57-10-3	n-Hexadecanoic acid	10	NJ, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B
R4-6501	Unidentified Compound(s)	20	J, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112SW **Lab ID:** C124603-77 **MD No:**
Station ID: 92B-03-006/00.00 **Matrix:** Surface Water **D No:** 7195 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U, J, CLP16, QC-1	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
95-48-7	2-Methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
88-74-4	2-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-94-1	3,3'-Dichlorobenzidine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
106-47-8	4-Chloroaniline	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
100-02-7	4-Nitrophenol	10	U, J, CLP16	ug/L	10	10/31/12	11/14/12	CLP SOM01.2 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112SW **Lab ID:** C124603-77 **MD No:**
Station ID: 92B-03-006/00.00 **Matrix:** Surface Water **D No:** 7195 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
1912-24-9	Atrazine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
100-52-7	Benzaldehyde	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
111-44-4	bis(2-Chloroethyl) Ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
39638-32-9	Bis(2-chloroisopropyl) ether	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
105-60-2	Caprolactam	5.1		ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
86-74-8	Carbazole	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
117-84-0	Di-n-octylphthalate	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	5.0	U, J, CLP16	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B

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D.A.R.T. Id: 13-0015
Project: 13-0015, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 13-0015, Southeastern Wood Preserving **Contract Lab Case: 43015**

Sample ID: SWP112SW **Lab ID:** C124603-77 **MD No:**

Station ID: 92B-03-006/00.00 **Matrix:** Surface Water **D No:** 7195 KAP

Date Collected: 10/28/12 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
87-86-5	Pentachlorophenol	0.20	U, J, QC-1	ug/L	0.20	10/31/12	11/13/12	CLP SOM01.2 BS
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
108-95-2	Phenol	5.0	U	ug/L	5.0	10/31/12	11/14/12	CLP SOM01.2 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	10/31/12	11/13/12	CLP SOM01.2 BS
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	20	J, CLP15	ug/L		10/31/12	11/14/12	CLP SOM01.2 B

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DATA USABILITY REPORT

DATE: January 9, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0015

SAMPLE DATE: October 24 thru 29, 2012

SAMPLES:

Dioxins and Semivolatile Organic Compounds

EQB01	SWP220_0.5	SWP204_0.5
SWP218_0.5	SWP219_0.5	SWP207_0.5
SWP225_0.5	SWP208_0.5	SWP9207_0.5
SWP215_0.5	SWP201_0.5	SWP214_0.5
SWP216_0.5	SWP209_0.5	SWP212_0.5
SWP217_0.5	SWP210_0.5	SWP205_1.0
SWP224_0.5	SWP9210_0.5	SWP213_0.5
SWP222_0.5	SWP211_0.5	SWP206_0.5
SWP223_0.5	SWP202_0.5	
SWP221_0.5	SWP203_0.5	

Semivolatile Organic Compounds

SWP111	SWP215_1.0	SWP201_1.0
SWP109	SWP216_1.0	SWP209_1.0
SWP108	SWP217_1.0	SWP210_1.0
SWP112	SWP224_1.0	SWP211_1.0
SWP9112	SWP9224_1.0	SWP202_1.0
SWP113	SWP222_1.0	SWP9202_1.0
SWP113SW	SWP223_1.0	SWP9203_0.5
SWP9113SW	SWP101SW	SWP203_1.0
SWP107	SWP101	SWP204_1.0
SWP107SW	SWP221_1.0	SWP103
SWP218_1.0	SWP220_1.0	SWP103SW
SWP225_1.0	SWP219_1.0	SWP102
SWP225_1.0	SWP208_1.0	SWP102SW

SWP207_1.0	SWP213_1.0	SWP109SW
SWP214_1.0	SWP206_1.0	SWP112SW
SWP212_1.0	SWP108SW	
SWP205_1.5	SWP111SW	

OVERVIEW:

This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008, USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0015 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0015 were 10 surface water samples, 10 sediment samples, 56 soil samples and 1 equipment blank sample. The samples were analyzed for dioxins and semivolatile organic compounds.

MAJOR ISSUES

Dioxins

None.

Semivolatile Organic Compounds

None.

MINOR ISSUES

Dioxins

One sample result for 1,2,3,7,8,9-hexachlorodibenzodioxin was qualified "J," estimated. The sample result was between the method detection limit (MDL) and minimum reporting limit (MRL). No other qualifiers were added.

Some sample results for 1,2,3,4,7,8-hexachlorodibenzodioxin, 1,2,3,7,8,9-hexachlorodibenzofuran, 1,2,3,7,8-pentachlorodibenzodioxin, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,7,8,9-hexachlorodibenzodioxin, 2,3,4,7,8-pentachlorodibenzofuran, 1,2,3,4,7,8,9-heptachlorodibenzofuran, 2,3,7,8-tetrachlorodibenzodioxin, 1,2,3,7,8-pentachlorodibenzofuran, 2,3,4,6,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzodioxin, and 1,2,3,4,7,8-hexachlorodibenzofuran were qualified "J," estimated, because the reported concentration is less than the lowest standard on the calibration curve.

Several sample results for 2,3,7,8-tetrachlorodibenzofuran were qualified "J," estimated, because the reported concentration is less than the lowest standard on the calibration curve and only some sample results were confirmed with a second column. Additionally some sample results for 2,3,7,8-tetrachlorodibenzofuran did not meet the analyte calibration criteria.

Some sample results for 1,2,3,7,8,9-hexachlorodibenzofuran and 1,2,3,7,8,9-hexachlorodibenzodioxin were qualified "J," estimated because the reported concentration was less than the lowest standard on the calibration curve and the instrument experienced a sensitivity shift during analysis.

The reported concentration of octachlorodibenzodioxin in some samples was greater than the highest standard on the calibration curve. These sample results were qualified "J," estimated high or low.

The chromatography was poor for 2,3,4,7,8-pentachlorodibenzofuran and 1,2,3,7,8,9-hexachlorodibenzodioxin in some samples. The peaks were split or poor peak shape was present. The affected sample results were qualified "J," estimated.

An instrument sensitivity shift occurred during analysis for 1,2,3,7,8,9-hexachlorodibenzofuran and 1,2,3,4,6,7,8-heptachlorodibenzofuran in some samples. The affected sample results were qualified "J," estimated.

The instrument sensitivity was off and the internal standard was outside the method control limits for 1,2,3,7,8,9-hexachlorodibenzofuran. The associated sample results were qualified "J," estimated.

The sample results for TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98), TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98), and TEQ (Mammalian Toxic. Equiv. Value, WHO

TEQ-2005) were qualified "J" or "UJ" because greater than 10% of the total concentration included constituents with estimated quantitations.

The instrument was not calibrated for all constituents of the total concentration result for heptachlorodibenzodioxin (total), heptachlorodibenzofuran (total), hexachlorodibenzodioxin (total), hexachlorodibenzofuran (total), pentachlorodibenzodioxin (total), pentachlorodibenzofuran (total), tetrachlorodibenzofuran (total), and tetrachlorodibenzodioxin (total). The sample results were qualified "J," for detections, and "UJ," for non-detects.

The internal standard associated with 1,2,3,4,7,8-hexachlorodibenzodioxin, 1,2,3,4,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzodioxin, 2,3,4,6,7,8-hexachlorodibenzofuran, and 1,2,3,4,7,8,9-heptachlorodibenzofuran was outside the method control limits. The affected sample results were qualified "J," estimated.

The estimated maximum possible concentration (EMPC) was reported for 1,2,3,7,8-pentachlorodibenzodioxin, 2,3,4,6,7,8-hexachlorodibenzofuran, 2,3,4,7,8-pentachlorodibenzofuran, octachlorodibenzofuran, 2,3,7,8-tetrachlorodibenzodioxin, 2,3,7,8-tetrachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzodioxin, and 1,2,3,7,8-pentachlorodibenzofuran in some samples. The samples were non-detect and qualified "U."

Semivolatile Organic Compounds

In some samples naphthalene, anthracene, phenanthrene, benzo(a)anthracene, benzo(g,h,i)perylene, fluoranthene, indeno (1,2,3-cd) pyrene, pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, acenaphthene, carbazole, dibenzo(a,h)anthracene, benzo(a)pyrene, acenaphthylene, fluorene, and dibenzofuran were reported at concentrations less than the lowest standard on the calibration curve. These sample results were qualified "J," estimated.

Unidentified compounds were reported in some samples. The identification was not verified and the sample results are qualified "J" estimated.

Presumptive evidence indicated petroleum product was present in some samples. The results are reported as identified by the laboratory and the identifications were not verified.

Presumptive evidence exists that tentatively identified compounds were detected in several samples. The sample results were reported as tentative identifications with an estimated value and qualified "NJ."

The initial calibration response was erratic in some sample results for fluoranthene, anthracene, and pyrene. The detected sample results were qualified "J," estimated.

The non-detect sample results for 2,4-dinitrophenol, 4-nitrophenol, hexachlorocyclopentadiene (HCCP), anthracene, di-n-butylphthalate, di-n-octylphthalate, fluoranthene, pyrene, 2-methyl-4,6-dinitrophenol, and pentachlorophenol were qualified "UJ," estimated at the MRL, because the associated initial calibration was erratic.

Some sample results for pentachlorophenol, hexachlorocyclopentadiene (HCCP), and benzaldehyde were qualified "UJ," estimated at the MRL, because the analyte concentration was low in the continuing calibration verification standard.

2-Methyl-4,6-dinitrophenol was qualified "UJ" for the following reasons:

- low analyte concentration in the continuing calibration verification standard
- surrogate recovery of less than 10%
- erratic initial calibration

The associated sample results should be considered estimated at the MRL.

The surrogate associated with 1,1-biphenyl, benzo(a)anthracene, benzyl butyl phthalate, bis(2-ethylhexyl)phthalate, caprolactam, chrysene, di-n-butylphthalate, di-n-octylphthalate, diethyl phthalate, dimethyl phthalate, fluoranthene, and pyrene had a low recovery. The associated sample results were qualified "UJ," estimated at the MRL. Additionally, 2-methyl-4,6-dinitrophenol also had erratic initial calibration.

Equipment Blank

The equipment blank contained heptachlorodibenzodioxin (total), heptachlorodibenzofuran (total), hexachlorodibenzodioxin (total), hexachlorodibenzofuran (total), pentachlorodibenzodioxin (total), pentachlorodibenzofuran (total), and tetrachlorodibenzofuran (total) at concentrations below the MRL. The sample collected following the equipment blank contained these analytes at concentrations greater than the MRL. No qualifiers were added.

The equipment blank also contained naphthalene at a concentration between the MDL and MRL. The sample collected following the equipment blank did not contain naphthalene. No qualifiers were added. TICs were also detected but additional qualifiers were not added.

NOTES

The analytical data included for project number 13-0015 are of sufficient quality and are deemed acceptable for their intended use.

Field duplicate 9002_12 was collected with parent sample 002_12. The calculable RPDs are represented below:

Compound	RPD
Aluminum	0.0
Arsenic	24.0
Barium	7.4
Beryllium	8.0
Calcium	6.9
Chromium	22.2
Cobalt	75.9
Copper	8.0
Iron	9.1
Lead	30.8
Magnesium	5.7
Manganese	49.2
Nickel	13.3
Potassium	14.0
Selenium	0.0
Sodium	6.5
Strontium	5.7
Titanium	14.3
Vanadium	20.0
Yttrium	0.0
Zinc	11.4

The analytes with RPDs less than the acceptable limit for inorganics (20%) can be used as duplicates.

NOTES

The analytical data included for project number 13-0175 are of sufficient quality and are deemed acceptable for their intended use.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Kristin Trapp

February 12, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0188, Southeastern Wood Preserving
Superfund Remedial

FROM: Kristin Trapp
OCS Chemist

THRU: Sallie Hale, Chief
ASB Organic Chemistry Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Volatile Organics (VOA)		
Volatile organic compounds	EPA 8260C (Water)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 13-0188, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB01	E130403-01	Trip Blank - Water	1/22/13 11:50	1/24/13 9:50
MW001	E130403-02	Groundwater	1/22/13 12:37	1/24/13 9:50
MW9001	E130403-03	Groundwater	1/22/13 12:37	1/24/13 9:50
MW002	E130403-04	Groundwater	1/22/13 16:04	1/24/13 9:50

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QC-6	Calibration check standard greater than method control limits.

ACRONYMS AND ABBREVIATIONS

CAS — Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

ISO — The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

MDL — Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL — Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC — Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: TB01 **Lab ID:** E130403-01

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/22/13 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: TB01 **Lab ID:** E130403-01

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/22/13 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-6	ug/L	2.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
67-66-3	Chloroform	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:02	1/30/13 11:02	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: TB01 **Lab ID:** E130403-01

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 1/22/13 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/30/13 11:02	1/30/13 11:02	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/30/13 11:02	1/30/13 11:02	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C

Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-6	ug/L	2.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
67-66-3	Chloroform	0.14	J, Q-2	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:27	1/30/13 11:27	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/30/13 11:27	1/30/13 11:27	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/30/13 11:27	1/30/13 11:27	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-6	ug/L	2.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
56-23-5	Carbon Tetrachloride	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
67-66-3	Chloroform	0.16	J, Q-2	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/30/13 11:52	1/30/13 11:52	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/30/13 11:52	1/30/13 11:52	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/30/13 11:52	1/30/13 11:52	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04
Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
563-58-6	1,1-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
96-18-4	1,2,3-Trichloropropane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
95-63-6	1,2,4-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
96-12-8	1,2-Dibromo-3-Chloropropane (DBCP)	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
106-93-4	1,2-Dibromoethane (EDB)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-67-8	1,3,5-Trimethylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
142-28-9	1,3-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
594-20-7	2,2-Dichloropropane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
67-64-1	Acetone	4.0	U	ug/L	4.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
71-43-2	Benzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-86-1	Bromobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C

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Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04

Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
75-27-4	Bromodichloromethane	0.13	J, Q-2	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-25-2	Bromoform	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
74-83-9	Bromomethane	2.0	U, J, QC-6	ug/L	2.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-15-0	Carbon disulfide	2.0	U	ug/L	2.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
56-23-5	Carbon Tetrachloride	0.16	J, Q-2	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-00-3	Chloroethane	2.0	U	ug/L	2.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
67-66-3	Chloroform	0.92		ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
74-87-3	Chloromethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
110-82-7	Cyclohexane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
74-95-3	Dibromomethane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-71-8	Dichlorodifluoromethane (Freon 12)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
100-41-4	Ethyl Benzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
87-68-3	Hexachlorobutadiene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
79-20-9	Methyl Acetate	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
591-78-6	Methyl Butyl Ketone	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
78-93-3	Methyl Ethyl Ketone	4.0	U	ug/L	4.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-10-1	Methyl Isobutyl Ketone	1.0	U	ug/L	1.0	1/30/13 12:17	1/30/13 12:17	EPA 8260C
1634-04-4	Methyl T-Butyl Ether (MTBE)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-09-2	Methylene Chloride	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
104-51-8	n-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
103-65-1	n-Propylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
95-49-8	o-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
95-47-6	o-Xylene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C

Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04

Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
106-43-4	p-Chlorotoluene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
99-87-6	p-Isopropyltoluene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
135-98-8	sec-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
100-42-5	Styrene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
98-06-6	tert-Butylbenzene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
108-88-3	Toluene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
79-01-6	Trichloroethene (Trichloroethylene)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-69-4	Trichlorofluoromethane (Freon 11)	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	1/30/13 12:17	1/30/13 12:17	EPA 8260C
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/30/13 12:17	1/30/13 12:17	EPA 8260C

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Blank (1301121-BLK1)				Prepared & Analyzed: 01/30/13						
EPA 8260C										
Dichlorodifluoromethane (Freon 12)	U	0.50	ug/L							U
Chloromethane	U	0.50	"							U
Bromomethane	U	2.0	"							J, QC-6, U
Vinyl chloride	U	0.50	"							U
Chloroethane	U	2.0	"							U
Trichlorofluoromethane (Freon 11)	U	0.50	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.50	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	0.50	"							U
Methylene Chloride	U	0.50	"							U
Methyl T-Butyl Ether (MTBE)	U	0.50	"							U
Acetone	U	4.0	"							U
Carbon disulfide	U	2.0	"							U
Methyl Acetate	U	1.0	"							U
1,1-Dichloroethane	U	0.50	"							U
cis-1,2-Dichloroethene	U	0.50	"							U
2,2-Dichloropropane	U	0.50	"							U
Methyl Ethyl Ketone	U	4.0	"							U
Bromochloromethane	U	0.50	"							U
trans-1,2-Dichloroethene	U	0.50	"							U
Chloroform	U	0.50	"							U
1,2-Dichloroethane	U	0.50	"							U
1,1,1-Trichloroethane	U	0.50	"							U
Cyclohexane	U	0.50	"							U
1,1-Dichloropropene	U	0.50	"							U
Carbon Tetrachloride	U	0.50	"							U
Bromodichloromethane	U	0.50	"							U
Methyl Isobutyl Ketone	U	1.0	"							U
1,2-Dichloropropane	U	0.50	"							U
Methylcyclohexane	U	0.50	"							U
Dibromomethane	U	0.50	"							U
trans-1,3-Dichloropropene	U	0.50	"							U
Trichloroethene (Trichloroethylene)	U	0.50	"							U
Benzene	U	0.50	"							U
Dibromochloromethane	U	0.50	"							U
1,1,2-Trichloroethane	U	0.50	"							U
cis-1,3-Dichloropropene	U	0.50	"							U
Bromoform	U	1.0	"							U
Bromobenzene	U	0.50	"							U

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Blank (1301121-BLK1)				Prepared & Analyzed: 01/30/13						
1,1,2,2-Tetrachloroethane	U	0.50	ug/L							U
Tetrachloroethene (Tetrachloroethylene)	U	0.50	"							U
1,3-Dichloropropane	U	0.50	"							U
Methyl Butyl Ketone	U	1.0	"							U
Toluene	U	0.50	"							U
Chlorobenzene	U	0.50	"							U
1,1,1,2-Tetrachloroethane	U	0.50	"							U
Ethyl Benzene	U	0.50	"							U
(m- and/or p-)Xylene	U	1.0	"							U
o-Xylene	U	0.50	"							U
Styrene	U	0.50	"							U
1,2,3-Trichloropropane	U	0.50	"							U
o-Chlorotoluene	U	0.50	"							U
p-Chlorotoluene	U	0.50	"							U
1,3-Dichlorobenzene	U	0.50	"							U
1,4-Dichlorobenzene	U	0.50	"							U
1,2-Dichlorobenzene	U	0.50	"							U
1,2-Dibromoethane (EDB)	U	0.50	"							U
Isopropylbenzene	U	0.50	"							U
n-Propylbenzene	U	0.50	"							U
1,3,5-Trimethylbenzene	U	0.50	"							U
tert-Butylbenzene	U	0.50	"							U
1,2,4-Trimethylbenzene	U	0.50	"							U
sec-Butylbenzene	U	0.50	"							U
p-Isopropyltoluene	U	0.50	"							U
n-Butylbenzene	U	0.50	"							U
1,2-Dibromo-3-Chloropropane (DBCP)	U	1.0	"							U
1,2,4-Trichlorobenzene	U	0.50	"							U
Hexachlorobutadiene	U	0.50	"							U
1,2,3-Trichlorobenzene	U	0.50	"							U
Tentatively Identified Compounds	U	10	"							

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
LCS (1301121-BS1)				Prepared & Analyzed: 01/30/13						
EPA 8260C										
Dichlorodifluoromethane (Freon 12)	16.810		ug/L	20.000		84.0	63.5-132			
Chloromethane	17.860		"	20.000		89.3	68.9-118			
Bromomethane	27.660		"	20.000		138	49.9-140			J, QC-2, QC-6
Vinyl chloride	19.520		"	20.000		97.6	78.8-115			
Chloroethane	19.350		"	20.000		96.8	76.7-118			
Trichlorofluoromethane (Freon 11)	18.380		"	20.000		91.9	78-129			
1,1-Dichloroethene (1,1-Dichloroethylene)	19.580		"	20.000		97.9	85.4-116			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	18.860		"	20.000		94.3	80-124			
Methylene Chloride	19.340		"	20.000		96.7	81.2-118			
Methyl T-Butyl Ether (MTBE)	19.050		"	20.000		95.2	80.1-123			
Acetone	33.130		"	40.000		82.8	49.7-153			
Carbon disulfide	19.410		"	20.000		97.0	81.7-114			
Methyl Acetate	36.890		"	40.000		92.2	75.8-121			
1,1-Dichloroethane	19.420		"	20.000		97.1	87.8-113			
cis-1,2-Dichloroethene	20.030		"	20.000		100	87.6-115			
2,2-Dichloropropane	21.790		"	20.000		109	53.4-154			
Methyl Ethyl Ketone	33.520		"	40.000		83.8	68.1-135			
Bromochloromethane	20.280		"	20.000		101	83.6-117			
trans-1,2-Dichloroethene	20.190		"	20.000		101	86.6-114			
Chloroform	19.310		"	20.000		96.6	87.9-115			
1,2-Dichloroethane	19.590		"	20.000		98.0	83.9-122			
1,1,1-Trichloroethane	19.430		"	20.000		97.2	79.3-126			
Cyclohexane	18.230		"	20.000		91.2	83.5-122			
1,1-Dichloropropene	19.830		"	20.000		99.2	89.4-115			
Carbon Tetrachloride	18.800		"	20.000		94.0	68.8-140			
Bromodichloromethane	20.230		"	20.000		101	80-125			
Methyl Isobutyl Ketone	39.640		"	40.000		99.1	77-127			
1,2-Dichloropropane	19.550		"	20.000		97.8	88-113			
Methylcyclohexane	19.010		"	20.000		95.0	82.6-124			
Dibromomethane	19.270		"	20.000		96.4	87.3-117			
trans-1,3-Dichloropropene	22.880		"	20.000		114	77.4-127			
Trichloroethene (Trichloroethylene)	20.010		"	20.000		100	87.8-114			
Benzene	19.310		"	20.000		96.6	89.6-113			
Dibromochloromethane	21.610		"	20.000		108	71.7-133			
1,1,2-Trichloroethane	20.860		"	20.000		104	87.1-111			
cis-1,3-Dichloropropene	23.550		"	20.000		118	81-121			
Bromoform	42.850		"	40.000		107	63.1-142			
Bromobenzene	22.200		"	20.000		111	84.6-112			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
LCS (1301121-BS1)				Prepared & Analyzed: 01/30/13						
1,1,2,2-Tetrachloroethane	21.450		ug/L	20.000		107	80.2-118			
Tetrachloroethene (Tetrachloroethylene)	20.950		"	20.000		105	85.1-113			
1,3-Dichloropropane	20.870		"	20.000		104	87.4-113			
Methyl Butyl Ketone	37.350		"	40.000		93.4	69.9-136			
Toluene	20.680		"	20.000		103	87.7-111			
Chlorobenzene	20.550		"	20.000		103	88.4-109			
1,1,1,2-Tetrachloroethane	22.110		"	20.000		111	76.5-128			
Ethyl Benzene	21.170		"	20.000		106	90-114			
(m- and/or p-)Xylene	42.960		"	40.000		107	91.3-117			
o-Xylene	21.580		"	20.000		108	88.9-116			
Styrene	22.470		"	20.000		112	89.9-119			
1,2,3-Trichloropropane	22.480		"	20.000		112	83.4-114			
o-Chlorotoluene	22.480		"	20.000		112	85.8-114			
p-Chlorotoluene	22.450		"	20.000		112	86.5-114			
1,3-Dichlorobenzene	22.470		"	20.000		112	86.4-112			
1,4-Dichlorobenzene	22.360		"	20.000		112	86.5-110			QL-2
1,2-Dichlorobenzene	22.440		"	20.000		112	86.4-111			QL-2
1,2-Dibromoethane (EDB)	21.990		"	20.000		110	87.3-115			
Isopropylbenzene	22.110		"	20.000		111	84.5-120			
n-Propylbenzene	22.830		"	20.000		114	87-117			
1,3,5-Trimethylbenzene	23.680		"	20.000		118	86.8-119			
tert-Butylbenzene	22.660		"	20.000		113	85.2-119			
1,2,4-Trimethylbenzene	23.290		"	20.000		116	86.5-121			
sec-Butylbenzene	23.370		"	20.000		117	86.2-120			
p-Isopropyltoluene	23.300		"	20.000		116	86.3-123			
n-Butylbenzene	24.350		"	20.000		122	85.7-121			QC-2, QL-2
1,2-Dibromo-3-Chloropropane (DBCP)	39.430		"	40.000		98.6	72.3-136			
1,2,4-Trichlorobenzene	23.310		"	20.000		117	83.9-117			
Hexachlorobutadiene	23.830		"	20.000		119	80.2-116			QL-2
1,2,3-Trichlorobenzene	22.750		"	20.000		114	85-117			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Matrix Spike (1301121-MS1)	**Source: E130403-04**			Prepared & Analyzed: 01/30/13						
EPA 8260C										
Dichlorodifluoromethane (Freon 12)	9.5900		ug/L	10.233	U	93.7	71.1-152			
Chloromethane	9.5800		"	10.233	U	93.6	67.3-138			
Bromomethane	14.030		"	10.233	U	137	33.6-168			J, QC-2, QC-6
Vinyl chloride	10.920		"	10.233	U	107	84.5-135			
Chloroethane	10.740		"	10.233	U	105	70.6-150			
Trichlorofluoromethane (Freon 11)	10.730		"	10.233	U	105	87.3-147			
1,1-Dichloroethene (1,1-Dichloroethylene)	11.190		"	10.233	U	109	87.5-133			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	11.100		"	10.233	U	108	87.8-141			
Methylene Chloride	10.460		"	10.233	U	102	80.7-129			
Methyl T-Butyl Ether (MTBE)	9.5600		"	10.233	U	93.4	76.5-127			
Acetone	16.370		"	20.465	U	80.0	48.2-133			
Carbon disulfide	10.980		"	10.233	U	107	40.9-152			
Methyl Acetate	18.480		"	20.465	U	90.3	66.1-122			
1,1-Dichloroethane	10.500		"	10.233	U	103	87.6-126			
cis-1,2-Dichloroethene	10.700		"	10.233	U	105	85.3-127			
2,2-Dichloropropane	11.150		"	10.233	U	109	45.4-163			
Methyl Ethyl Ketone	16.580		"	20.465	U	81.0	60.8-127			
Bromochloromethane	10.470		"	10.233	U	102	82.7-126			
trans-1,2-Dichloroethene	11.270		"	10.233	U	110	86.8-128			
Chloroform	11.470		"	10.233	0.92000	103	87.6-128			
1,2-Dichloroethane	10.390		"	10.233	U	102	83.5-129			
1,1,1-Trichloroethane	10.410		"	10.233	U	102	85.6-137			
Cyclohexane	10.380		"	10.233	U	101	85.1-140			
1,1-Dichloropropene	11.070		"	10.233	U	108	90.2-132			
Carbon Tetrachloride	10.190		"	10.233	0.16000	98.0	75.4-144			
Bromodichloromethane	10.500		"	10.233	0.13000	101	81.1-125			
Methyl Isobutyl Ketone	19.770		"	20.465	U	96.6	73.9-125			
1,2-Dichloropropane	10.400		"	10.233	U	102	85.3-125			
Methylcyclohexane	10.700		"	10.233	U	105	81.4-144			
Dibromomethane	9.9400		"	10.233	U	97.1	83.2-124			
trans-1,3-Dichloropropene	11.460		"	10.233	U	112	66.9-126			
Trichloroethene (Trichloroethylene)	10.810		"	10.233	U	106	87.2-128			
Benzene	10.530		"	10.233	U	103	88.8-127			
Dibromochloromethane	10.620		"	10.233	U	104	67.1-128			
1,1,2-Trichloroethane	10.800		"	10.233	U	106	83.6-119			
cis-1,3-Dichloropropene	11.500		"	10.233	U	112	73-125			
Bromoform	20.690		"	20.465	U	101	50.7-133			
Bromobenzene	12.120		"	10.233	U	118	80.5-121			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Matrix Spike (1301121-MS1)	**Source: E130403-04**			Prepared & Analyzed: 01/30/13						
1,1,2,2-Tetrachloroethane	11.260		ug/L	10.233	U	110	78-121			
Tetrachloroethene (Tetrachloroethylene)	11.610		"	10.233	U	113	66.4-149			
1,3-Dichloropropane	11.010		"	10.233	U	108	83.6-121			
Methyl Butyl Ketone	18.150		"	20.465	U	88.7	66.9-124			
Toluene	11.450		"	10.233	U	112	85.6-126			
Chlorobenzene	11.210		"	10.233	U	110	85.5-123			
1,1,1,2-Tetrachloroethane	10.620		"	10.233	U	104	77.4-127			
Ethyl Benzene	11.900		"	10.233	U	116	85-130			
(m- and/or p-)Xylene	24.050		"	20.465	U	118	81.5-138			
o-Xylene	11.790		"	10.233	U	115	78.6-130			
Styrene	12.000		"	10.233	U	117	34.5-158			
1,2,3-Trichloropropane	11.270		"	10.233	U	110	78.9-120			
o-Chlorotoluene	12.290		"	10.233	U	120	80.6-128			
p-Chlorotoluene	12.240		"	10.233	U	120	79.4-129			
1,3-Dichlorobenzene	12.090		"	10.233	U	118	79-125			
1,4-Dichlorobenzene	12.100		"	10.233	U	118	78.3-124			
1,2-Dichlorobenzene	11.830		"	10.233	U	116	78.4-125			
1,2-Dibromoethane (EDB)	11.010		"	10.233	U	108	83.4-119			
Isopropylbenzene	12.380		"	10.233	U	121	82.2-134			
n-Propylbenzene	12.810		"	10.233	U	125	79.7-136			
1,3,5-Trimethylbenzene	13.120		"	10.233	U	128	61.9-143			
tert-Butylbenzene	12.720		"	10.233	U	124	79.5-134			
1,2,4-Trimethylbenzene	12.740		"	10.233	U	124	57.5-147			
sec-Butylbenzene	13.220		"	10.233	U	129	79-138			
p-Isopropyltoluene	13.030		"	10.233	U	127	76.7-138			
n-Butylbenzene	13.180		"	10.233	U	129	74.7-136			QC-2
1,2-Dibromo-3-Chloropropane (DBCP)	20.500		"	20.465	U	100	68.3-125			
1,2,4-Trichlorobenzene	11.740		"	10.233	U	115	67.6-125			
Hexachlorobutadiene	12.870		"	10.233	U	126	67.2-136			
1,2,3-Trichlorobenzene	11.720		"	10.233	U	115	69.5-126			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Matrix Spike Dup (1301121-MSD1)	**Source: E130403-04**			Prepared & Analyzed: 01/30/13						
EPA 8260C										
Dichlorodifluoromethane (Freon 12)	9.7500		ug/L	10.233	U	95.3	71.1-152	1.65	21.6	
Chloromethane	10.440		"	10.233	U	102	67.3-138	8.59	29	
Bromomethane	15.750		"	10.233	U	154	33.6-168	11.6	34.4	J, QC-2, QC-6
Vinyl chloride	11.300		"	10.233	U	110	84.5-135	3.42	14.1	
Chloroethane	10.910		"	10.233	U	107	70.6-150	1.57	34.2	
Trichlorofluoromethane (Freon 11)	10.730		"	10.233	U	105	87.3-147	0.00	18.7	
1,1-Dichloroethene (1,1-Dichloroethylene)	11.080		"	10.233	U	108	87.5-133	0.988	12.8	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	11.250		"	10.233	U	110	87.8-141	1.34	13.6	
Methylene Chloride	10.510		"	10.233	U	103	80.7-129	0.477	14.3	
Methyl T-Butyl Ether (MTBE)	10.030		"	10.233	U	98.0	76.5-127	4.80	11.8	
Acetone	17.400		"	20.465	U	85.0	48.2-133	6.10	18.2	
Carbon disulfide	11.290		"	10.233	U	110	40.9-152	2.78	39.5	
Methyl Acetate	19.490		"	20.465	U	95.2	66.1-122	5.32	11.2	
1,1-Dichloroethane	10.710		"	10.233	U	105	87.6-126	1.98	11.3	
cis-1,2-Dichloroethene	11.150		"	10.233	U	109	85.3-127	4.12	10.8	
2,2-Dichloropropane	12.090		"	10.233	U	118	45.4-163	8.09	18	
Methyl Ethyl Ketone	17.250		"	20.465	U	84.3	60.8-127	3.96	15	
Bromochloromethane	10.840		"	10.233	U	106	82.7-126	3.47	15.3	
trans-1,2-Dichloroethene	11.400		"	10.233	U	111	86.8-128	1.15	11	
Chloroform	11.680		"	10.233	0.92000	105	87.6-128	1.81	11.4	
1,2-Dichloroethane	10.730		"	10.233	U	105	83.5-129	3.22	12.1	
1,1,1-Trichloroethane	11.070		"	10.233	U	108	85.6-137	6.15	10.9	
Cyclohexane	10.720		"	10.233	U	105	85.1-140	3.22	11.5	
1,1-Dichloropropene	11.460		"	10.233	U	112	90.2-132	3.46	11.1	
Carbon Tetrachloride	10.730		"	10.233	0.16000	103	75.4-144	5.16	15.8	
Bromodichloromethane	10.510		"	10.233	0.13000	101	81.1-125	0.0952	12.5	
Methyl Isobutyl Ketone	20.270		"	20.465	U	99.0	73.9-125	2.50	12	
1,2-Dichloropropane	10.550		"	10.233	U	103	85.3-125	1.43	13.2	
Methylcyclohexane	11.150		"	10.233	U	109	81.4-144	4.12	12.4	
Dibromomethane	9.9800		"	10.233	U	97.5	83.2-124	0.402	14.2	
trans-1,3-Dichloropropene	12.220		"	10.233	U	119	66.9-126	6.42	18	
Trichloroethene (Trichloroethylene)	11.010		"	10.233	U	108	87.2-128	1.83	15	
Benzene	10.600		"	10.233	U	104	88.8-127	0.663	10	
Dibromochloromethane	11.010		"	10.233	U	108	67.1-128	3.61	17.7	
1,1,2-Trichloroethane	11.150		"	10.233	U	109	83.6-119	3.19	11.2	
cis-1,3-Dichloropropene	12.190		"	10.233	U	119	73-125	5.83	17.1	
Bromoform	20.940		"	20.465	U	102	50.7-133	1.20	21.1	
Bromobenzene	12.100		"	10.233	U	118	80.5-121	0.165	12.9	

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
Matrix Spike Dup (1301121-MSD1)	**Source: E130403-04**			Prepared & Analyzed: 01/30/13						
1,1,2,2-Tetrachloroethane	11.400		ug/L	10.233	U	111	78-121	1.24	13.5	
Tetrachloroethene (Tetrachloroethylene)	11.830		"	10.233	U	116	66.4-149	1.88	13.4	
1,3-Dichloropropane	10.850		"	10.233	U	106	83.6-121	1.46	10.5	
Methyl Butyl Ketone	19.000		"	20.465	U	92.8	66.9-124	4.58	13.2	
Toluene	11.590		"	10.233	U	113	85.6-126	1.22	10	
Chlorobenzene	11.240		"	10.233	U	110	85.5-123	0.267	10.6	
1,1,1,2-Tetrachloroethane	10.980		"	10.233	U	107	77.4-127	3.33	12.4	
Ethyl Benzene	11.820		"	10.233	U	116	85-130	0.675	10	
(m- and/or p-)Xylene	24.170		"	20.465	U	118	81.5-138	0.498	10.3	
o-Xylene	11.780		"	10.233	U	115	78.6-130	0.0849	10	
Styrene	12.220		"	10.233	U	119	34.5-158	1.82	22.6	
1,2,3-Trichloropropane	11.530		"	10.233	U	113	78.9-120	2.28	12.8	
o-Chlorotoluene	12.370		"	10.233	U	121	80.6-128	0.649	11.3	
p-Chlorotoluene	12.300		"	10.233	U	120	79.4-129	0.489	11.9	
1,3-Dichlorobenzene	12.080		"	10.233	U	118	79-125	0.0827	11.1	
1,4-Dichlorobenzene	12.050		"	10.233	U	118	78.3-124	0.414	10.3	
1,2-Dichlorobenzene	11.980		"	10.233	U	117	78.4-125	1.26	11	
1,2-Dibromoethane (EDB)	11.440		"	10.233	U	112	83.4-119	3.83	10.7	
Isopropylbenzene	12.430		"	10.233	U	121	82.2-134	0.403	12.7	
n-Propylbenzene	12.780		"	10.233	U	125	79.7-136	0.234	11.7	
1,3,5-Trimethylbenzene	13.030		"	10.233	U	127	61.9-143	0.688	13.7	
tert-Butylbenzene	12.830		"	10.233	U	125	79.5-134	0.861	11.8	
1,2,4-Trimethylbenzene	12.800		"	10.233	U	125	57.5-147	0.470	16.9	
sec-Butylbenzene	13.250		"	10.233	U	129	79-138	0.227	10.7	
p-Isopropyltoluene	13.220		"	10.233	U	129	76.7-138	1.45	11.1	
n-Butylbenzene	13.350		"	10.233	U	130	74.7-136	1.28	12.1	QC-2
1,2-Dibromo-3-Chloropropane (DBCP)	21.190		"	20.465	U	104	68.3-125	3.31	14.8	
1,2,4-Trichlorobenzene	12.260		"	10.233	U	120	67.6-125	4.33	14.3	
Hexachlorobutadiene	13.490		"	10.233	U	132	67.2-136	4.70	15.7	
1,2,3-Trichlorobenzene	11.860		"	10.233	U	116	69.5-126	1.19	14.2	

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
MRL Verification (1301121-PS1)				Prepared & Analyzed: 01/30/13						
EPA 8260C										
Dichlorodifluoromethane (Freon 12)	1.7200		ug/L	2.0000		86.0	43.5-152			
Chloromethane	1.7800		"	2.0000		89.0	48.9-138			
Bromomethane	2.1700		"	2.0000		108	29.9-160			J, QC-6, MRL-2
Vinyl chloride	1.9500		"	2.0000		97.5	58.8-135			
Chloroethane	1.8800		"	2.0000		94.0	56.7-138			MRL-2
Trichlorofluoromethane (Freon 11)	1.7600		"	2.0000		88.0	58-149			
1,1-Dichloroethene (1,1-Dichloroethylene)	1.9000		"	2.0000		95.0	65.4-136			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.8500		"	2.0000		92.5	60-144			
Methylene Chloride	1.8300		"	2.0000		91.5	61.2-138			
Methyl T-Butyl Ether (MTBE)	1.7500		"	2.0000		87.5	60.1-143			
Acetone	3.2100		"	4.0000		80.2	29.7-173			MRL-2
Carbon disulfide	1.9900		"	2.0000		99.5	61.7-134			MRL-2
Methyl Acetate	3.1700		"	4.0000		79.2	55.8-141			
1,1-Dichloroethane	1.8600		"	2.0000		93.0	67.8-133			
cis-1,2-Dichloroethene	1.8600		"	2.0000		93.0	67.6-135			
2,2-Dichloropropane	1.9000		"	2.0000		95.0	33.4-174			
Methyl Ethyl Ketone	2.6300		"	4.0000		65.8	48.1-155			MRL-2
Bromochloromethane	1.8700		"	2.0000		93.5	63.6-137			
trans-1,2-Dichloroethene	1.9700		"	2.0000		98.5	66.6-134			
Chloroform	1.8400		"	2.0000		92.0	67.9-135			
1,2-Dichloroethane	1.9400		"	2.0000		97.0	63.9-142			
1,1,1-Trichloroethane	1.8500		"	2.0000		92.5	59.3-146			
Cyclohexane	1.7100		"	2.0000		85.5	63.5-142			
1,1-Dichloropropene	1.8500		"	2.0000		92.5	69.4-135			
Carbon Tetrachloride	1.5900		"	2.0000		79.5	48.8-160			
Bromodichloromethane	1.8500		"	2.0000		92.5	60-145			
Methyl Isobutyl Ketone	3.0400		"	4.0000		76.0	57-147			
1,2-Dichloropropane	1.8300		"	2.0000		91.5	68-133			
Methylcyclohexane	1.8000		"	2.0000		90.0	62.6-144			
Dibromomethane	1.8200		"	2.0000		91.0	67.3-137			
trans-1,3-Dichloropropene	2.0700		"	2.0000		104	57.4-147			
Trichloroethene (Trichloroethylene)	1.9400		"	2.0000		97.0	67.8-134			
Benzene	1.8300		"	2.0000		91.5	69.6-133			
Dibromochloromethane	1.7700		"	2.0000		88.5	51.7-153			
1,1,2-Trichloroethane	1.8400		"	2.0000		92.0	67.1-131			
cis-1,3-Dichloropropene	1.8600		"	2.0000		93.0	61-141			
Bromoform	3.0600		"	4.0000		76.5	43.1-162			
Bromobenzene	2.1000		"	2.0000		105	64.6-132			

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301121 - V 5030B VOA Wtr Prep										
MRL Verification (1301121-PS1)				Prepared & Analyzed: 01/30/13						
1,1,2,2-Tetrachloroethane	1.9200		ug/L	2.0000		96.0	60.2-138			
Tetrachloroethene (Tetrachloroethylene)	1.9200		"	2.0000		96.0	65.1-133			
1,3-Dichloropropane	1.9200		"	2.0000		96.0	67.4-133			
Methyl Butyl Ketone	2.5400		"	4.0000		63.5	49.9-156			
Toluene	1.9700		"	2.0000		98.5	67.7-131			
Chlorobenzene	2.0000		"	2.0000		100	68.4-129			
1,1,1,2-Tetrachloroethane	1.5800		"	2.0000		79.0	56.5-148			
Ethyl Benzene	2.0100		"	2.0000		100	70-134			
(m- and/or p-)Xylene	4.0400		"	4.0000		101	71.3-137			
o-Xylene	1.9500		"	2.0000		97.5	68.9-136			
Styrene	1.9100		"	2.0000		95.5	69.9-139			
1,2,3-Trichloropropane	1.9100		"	2.0000		95.5	63.4-134			
o-Chlorotoluene	2.1300		"	2.0000		106	65.8-134			
p-Chlorotoluene	2.0900		"	2.0000		104	66.5-134			
1,3-Dichlorobenzene	2.0200		"	2.0000		101	66.4-132			
1,4-Dichlorobenzene	2.0800		"	2.0000		104	66.5-130			
1,2-Dichlorobenzene	2.0300		"	2.0000		102	66.4-131			
1,2-Dibromoethane (EDB)	1.7300		"	2.0000		86.5	67.3-135			
Isopropylbenzene	1.9900		"	2.0000		99.5	64.5-140			
n-Propylbenzene	2.0400		"	2.0000		102	67-137			
1,3,5-Trimethylbenzene	2.1000		"	2.0000		105	66.8-139			
tert-Butylbenzene	2.0700		"	2.0000		104	65.2-139			
1,2,4-Trimethylbenzene	2.0500		"	2.0000		102	66.5-141			
sec-Butylbenzene	2.1100		"	2.0000		106	66.2-140			
p-Isopropyltoluene	2.0300		"	2.0000		102	66.3-143			
n-Butylbenzene	1.9800		"	2.0000		99.0	65.7-141			QC-2
1,2-Dibromo-3-Chloropropane (DBCP)	3.4200		"	4.0000		85.5	52.3-156			
1,2,4-Trichlorobenzene	1.8800		"	2.0000		94.0	63.9-137			
Hexachlorobutadiene	2.2200		"	2.0000		111	60.2-136			
1,2,3-Trichlorobenzene	1.9600		"	2.0000		98.0	65-137			

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
QC-2	Analyte concentration high in continuing calibration verification standard
QC-6	Calibration check standard greater than method control limits.
QL-2	Laboratory Control Spike Recovery greater than method control limits

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Terri White

February 25, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0188, Southeastern Wood Preserving
Superfund Remedial

FROM: Terri White
ICS Chemist

THRU: Mike Wasko, Chief
ASB Inorganic Chemistry Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Water)	ISO
Total Metals	EPA 6010 (Water)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Terri White

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0188, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
MW001	E130403-02	Groundwater	1/22/13 12:37	1/24/13 9:50
MW9001	E130403-03	Groundwater	1/22/13 12:37	1/24/13 9:50
MW002	E130403-04	Groundwater	1/22/13 16:04	1/24/13 9:50

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Terri White

Total Metals

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	340		ug/L	100	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-36-0	Antimony	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7440-39-3	Barium	120		ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-43-9	Cadmium	0.50	U	ug/L	0.50	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7440-70-2	Calcium	27000		ug/L	250	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:44	EPA 6010
7439-89-6	Iron	2700		ug/L	100	1/29/13 12:40	2/04/13 10:44	EPA 6010
7439-92-1	Lead	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7439-95-4	Magnesium	5700		ug/L	250	1/29/13 12:40	2/04/13 10:44	EPA 6010
7439-96-5	Manganese	78		ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-09-7	Potassium	3000		ug/L	1000	1/29/13 12:40	2/04/13 10:44	EPA 6010
7782-49-2	Selenium	2.0	U	ug/L	2.0	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-23-5	Sodium	25000		ug/L	1000	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-24-6	Strontium	340		ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-28-0	Thallium	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:17	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-32-6	Titanium	8.5		ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 10:44	EPA 6010
7440-66-6	Zinc	23		ug/L	10	1/29/13 12:40	2/04/13 10:44	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Terri White

Total Metals

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	350		ug/L	100	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-36-0	Antimony	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7440-38-2	Arsenic	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7440-39-3	Barium	120		ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-43-9	Cadmium	0.50	U	ug/L	0.50	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7440-70-2	Calcium	27000		ug/L	250	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:59	EPA 6010
7439-89-6	Iron	2700		ug/L	100	1/29/13 12:40	2/04/13 10:59	EPA 6010
7439-92-1	Lead	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7439-95-4	Magnesium	5800		ug/L	250	1/29/13 12:40	2/04/13 10:59	EPA 6010
7439-96-5	Manganese	79		ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-09-7	Potassium	3100		ug/L	1000	1/29/13 12:40	2/04/13 10:59	EPA 6010
7782-49-2	Selenium	2.0	U	ug/L	2.0	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-23-5	Sodium	25000		ug/L	1000	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-24-6	Strontium	330		ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-28-0	Thallium	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:31	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-32-6	Titanium	7.0		ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 10:59	EPA 6010
7440-66-6	Zinc	19		ug/L	10	1/29/13 12:40	2/04/13 10:59	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Terri White

Total Metals

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04

Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	150		ug/L	100	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-36-0	Antimony	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7440-38-2	Arsenic	1.8		ug/L	1.0	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7440-39-3	Barium	110		ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-43-9	Cadmium	0.50	U	ug/L	0.50	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7440-70-2	Calcium	50000		ug/L	250	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	1/29/13 12:40	2/04/13 11:05	EPA 6010
7439-89-6	Iron	170		ug/L	100	1/29/13 12:40	2/04/13 11:05	EPA 6010
7439-92-1	Lead	1.0		ug/L	1.0	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7439-95-4	Magnesium	15000		ug/L	250	1/29/13 12:40	2/04/13 11:05	EPA 6010
7439-96-5	Manganese	66		ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7439-98-7	Molybdenum	19		ug/L	10	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-09-7	Potassium	5400		ug/L	1000	1/29/13 12:40	2/04/13 11:05	EPA 6010
7782-49-2	Selenium	2.0	U	ug/L	2.0	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7440-22-4	Silver	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-23-5	Sodium	63000		ug/L	1000	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-24-6	Strontium	1600		ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-28-0	Thallium	1.0	U	ug/L	1.0	1/29/13 12:43	2/22/13 13:35	EPA 200.8
7440-31-5	Tin	15	U	ug/L	15	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	1/29/13 12:40	2/04/13 11:05	EPA 6010
7440-66-6	Zinc	20		ug/L	10	1/29/13 12:40	2/04/13 11:05	EPA 6010

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301116 - M 200.2 Metals Water										
Blank (1301116-BLK1)				Prepared: 01/29/13 Analyzed: 02/04/13						
EPA 6010										
Silver	U	5.0	ug/L							U
Barium	U	5.0	"							U
Beryllium	U	3.0	"							U
Cobalt	U	5.0	"							U
Chromium	U	5.0	"							U
Copper	U	10	"							U
Molybdenum	U	10	"							U
Nickel	U	10	"							U
Tin	U	15	"							U
Strontium	U	5.0	"							U
Titanium	U	5.0	"							U
Vanadium	U	5.0	"							U
Yttrium	U	3.0	"							U
Zinc	U	10	"							U
Aluminum	U	100	"							U
Manganese	U	5.0	"							U
Calcium	U	250	"							U
Magnesium	U	250	"							U
Iron	U	100	"							U
Sodium	U	1000	"							U
Potassium	U	1000	"							U
LCS (1301116-BS1)				Prepared: 01/29/13 Analyzed: 02/04/13						
EPA 6010										
Silver	98.941	5.0	ug/L	100.00		98.9	85-115			
Barium	188.83	5.0	"	200.00		94.4	85-115			
Beryllium	48.772	3.0	"	50.000		97.5	85-115			
Cobalt	95.942	5.0	"	100.00		95.9	85-115			
Chromium	192.24	5.0	"	200.00		96.1	85-115			
Copper	100.34	10	"	100.00		100	85-115			
Molybdenum	100.57	10	"	100.00		101	85-115			
Nickel	191.43	10	"	200.00		95.7	85-115			
Tin	102.55	15	"	100.00		103	85-115			
Strontium	95.156	5.0	"	100.00		95.2	85-115			
Titanium	97.815	5.0	"	100.00		97.8	85-115			
Vanadium	97.441	5.0	"	100.00		97.4	85-115			
Yttrium	98.266	3.0	"	100.00		98.3	85-115			
Zinc	190.49	10	"	200.00		95.2	85-115			
Aluminum	5111.9	100	"	5000.0		102	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301116 - M 200.2 Metals Water										
LCS (1301116-BS1)				Prepared: 01/29/13 Analyzed: 02/04/13						
Manganese	497.25	5.0	ug/L	500.00		99.5	85-115			
Calcium	5040.8	250	"	5000.0		101	85-115			
Magnesium	5178.8	250	"	5000.0		104	85-115			
Iron	5241.3	100	"	5000.0		105	85-115			
Sodium	10317	1000	"	10000		103	85-115			
Potassium	9977.5	1000	"	10000		99.8	85-115			
Matrix Spike (1301116-MS1)				**Source: E130403-02** Prepared: 01/29/13 Analyzed: 02/04/13						
EPA 6010										
Silver	103.24	5.0	ug/L	100.00	U	103	75-125			
Barium	317.57	5.0	"	200.00	120.86	98.4	75-125			
Beryllium	51.462	3.0	"	50.000	U	103	75-125			
Cobalt	97.657	5.0	"	100.00	U	97.7	75-125			
Chromium	201.48	5.0	"	200.00	3.5883	98.9	75-125			
Copper	105.16	10	"	100.00	U	105	75-125			
Molybdenum	106.00	10	"	100.00	3.3267	103	75-125			
Nickel	196.54	10	"	200.00	2.2410	97.1	75-125			
Tin	104.75	15	"	100.00	U	105	75-125			
Strontium	422.49	5.0	"	100.00	335.47	87.0	75-125			
Titanium	113.54	5.0	"	100.00	8.5145	105	75-125			
Vanadium	103.71	5.0	"	100.00	U	104	75-125			
Yttrium	103.85	3.0	"	100.00	0.50115	103	75-125			
Zinc	223.31	10	"	200.00	23.249	100	75-125			
Aluminum	5887.9	100	"	5000.0	336.47	111	75-125			
Manganese	592.86	5.0	"	500.00	78.226	103	75-125			
Calcium	32320	250	"	5000.0	27342	99.6	75-125			
Magnesium	10876	250	"	5000.0	5672.1	104	75-125			
Iron	8097.8	100	"	5000.0	2676.3	108	75-125			
Sodium	35111	1000	"	10000	25117	99.9	75-125			
Potassium	13451	1000	"	10000	2996.5	105	75-125			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301116 - M 200.2 Metals Water										
Matrix Spike Dup (1301116-MSD1)	**Source: E130403-02**			Prepared: 01/29/13 Analyzed: 02/04/13						
EPA 6010										
Silver	100.91	5.0	ug/L	100.00	U	101	75-125	2.29	20	
Barium	325.52	5.0	"	200.00	120.86	102	75-125	2.47	20	
Beryllium	50.324	3.0	"	50.000	U	101	75-125	2.24	20	
Cobalt	96.618	5.0	"	100.00	U	96.6	75-125	1.07	20	
Chromium	195.99	5.0	"	200.00	3.5883	96.2	75-125	2.76	20	
Copper	100.60	10	"	100.00	U	101	75-125	4.43	20	
Molybdenum	104.90	10	"	100.00	3.3267	102	75-125	1.04	20	
Nickel	192.75	10	"	200.00	2.2410	95.3	75-125	1.94	20	
Tin	101.65	15	"	100.00	U	102	75-125	3.00	20	
Strontium	448.28	5.0	"	100.00	335.47	113	75-125	5.92	20	
Titanium	106.40	5.0	"	100.00	8.5145	97.9	75-125	6.50	20	
Vanadium	100.80	5.0	"	100.00	U	101	75-125	2.85	20	
Yttrium	99.975	3.0	"	100.00	0.50115	99.5	75-125	3.81	20	
Zinc	215.83	10	"	200.00	23.249	96.3	75-125	3.41	20	
Aluminum	5656.4	100	"	5000.0	336.47	106	75-125	4.01	20	
Manganese	603.45	5.0	"	500.00	78.226	105	75-125	1.77	20	
Calcium	33076	250	"	5000.0	27342	115	75-125	2.31	20	
Magnesium	11029	250	"	5000.0	5672.1	107	75-125	1.40	20	
Iron	8180.4	100	"	5000.0	2676.3	110	75-125	1.01	20	
Sodium	36587	1000	"	10000	25117	115	75-125	4.12	20	
Potassium	13478	1000	"	10000	2996.5	105	75-125	0.202	20	
MRL Verification (1301116-PS1)				Prepared: 01/29/13 Analyzed: 02/04/13						
EPA 6010										
Silver	5.6356	5.0	ug/L	5.0000		113	70-130			MRL-2
Barium	5.6031	5.0	"	5.0000		112	70-130			MRL-2
Beryllium	3.2469	3.0	"	3.0000		108	70-130			MRL-2
Cobalt	5.2168	5.0	"	5.0000		104	70-130			MRL-2
Chromium	4.8670	5.0	"	5.0000		97.3	70-130			MRL-2, U
Copper	10.277	10	"	10.000		103	70-130			MRL-2
Molybdenum	10.936	10	"	10.000		109	70-130			MRL-2
Nickel	10.941	10	"	10.000		109	70-130			MRL-2
Tin	15.638	15	"	15.000		104	70-130			MRL-2
Strontium	4.7243	5.0	"	5.0000		94.5	70-130			MRL-2, U
Titanium	4.8069	5.0	"	5.0000		96.1	70-130			MRL-2, U
Vanadium	5.7551	5.0	"	5.0000		115	70-130			MRL-2
Yttrium	3.1642	3.0	"	3.0000		105	70-130			MRL-2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301116 - M 200.2 Metals Water										
MRL Verification (1301116-PS1)				Prepared: 01/29/13 Analyzed: 02/04/13						
Zinc	10.924	10	ug/L	10.000		109	70-130			MRL-2
Aluminum	111.86	100	"	100.00		112	70-130			MRL-2
Manganese	5.5536	5.0	"	5.0000		111	70-130			MRL-2
Calcium	269.24	250	"	250.00		108	70-130			MRL-2
Magnesium	278.28	250	"	250.00		111	70-130			MRL-2
Iron	116.62	100	"	100.00		117	70-130			MRL-2
Sodium	1054.3	1000	"	1000.0		105	70-130			MRL-2
Potassium	996.52	1000	"	1000.0		99.7	70-130			MRL-2, U
Batch 1301117 - M 200.2 Metals Water										
Blank (1301117-BLK1)				Prepared: 01/29/13 Analyzed: 02/22/13						
EPA 200.8										
Arsenic	U	1.0	ug/L							U
Selenium	U	2.0	"							U
Cadmium	U	0.50	"							U
Antimony	U	1.0	"							U
Thallium	U	1.0	"							U
Lead	U	1.0	"							U
LCS (1301117-BS1)				Prepared: 01/29/13 Analyzed: 02/22/13						
EPA 200.8										
Arsenic	202.03	5.0	ug/L	200.00		101	85-115			
Selenium	198.74	10	"	200.00		99.4	85-115			
Cadmium	49.576	2.5	"	50.000		99.2	85-115			
Antimony	191.83	5.0	"	200.00		95.9	85-115			
Thallium	199.94	5.0	"	200.00		100	85-115			
Lead	206.92	5.0	"	200.00		103	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301117 - M 200.2 Metals Water										
Matrix Spike (1301117-MS1)	**Source: E130403-02**			Prepared: 01/29/13 Analyzed: 02/22/13						
EPA 200.8										
Arsenic	209.44	5.0	ug/L	200.00	0.76074	104	70-130			
Selenium	208.97	10	"	200.00	U	104	70-130			
Cadmium	50.575	2.5	"	50.000	U	101	70-130			
Antimony	190.79	5.0	"	200.00	0.082048	95.4	70-130			
Thallium	204.25	5.0	"	200.00	0.26645	102	70-130			
Lead	208.77	5.0	"	200.00	0.95551	104	70-130			
Matrix Spike Dup (1301117-MSD1)	**Source: E130403-02**			Prepared: 01/29/13 Analyzed: 02/22/13						
EPA 200.8										
Arsenic	209.51	5.0	ug/L	200.00	0.76074	104	70-130	0.0353	20	
Selenium	208.22	10	"	200.00	U	104	70-130	0.356	20	
Cadmium	49.399	2.5	"	50.000	U	98.8	70-130	2.35	20	
Antimony	191.68	5.0	"	200.00	0.082048	95.8	70-130	0.465	20	
Thallium	198.23	5.0	"	200.00	0.26645	99.0	70-130	2.99	20	
Lead	203.04	5.0	"	200.00	0.95551	101	70-130	2.78	20	
MRL Verification (1301117-PS1)				Prepared: 01/29/13 Analyzed: 02/22/13						
EPA 200.8										
Arsenic	1.3174	1.0	ug/L	1.0000		132	65-135			MRL-2
Selenium	2.2134	2.0	"	2.0000		111	65-135			MRL-2
Cadmium	0.53805	0.50	"	0.50000		108	65-135			MRL-2
Antimony	0.51838	1.0	"	0.50000		104	65-135			MRL-2, U
Thallium	0.48166	1.0	"	0.50000		96.3	65-135			MRL-2, U
Lead	1.0313	1.0	"	1.0000		103	65-135			MRL-2

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Terri White

February 22, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0175, Southeastern Wood Preserving
Superfund Remedial

FROM: Terri White
ICS Chemist

THRU: Mike Wasko, Chief
ASB Inorganic Chemistry Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Physical Properties (PHYSP)		
Physical Properties	EPA 200.2 (Soil)	None
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 6010 (Soil)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Terri White

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0175, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
001_10	E130312-01	Subsurface Soil	1/8/13 10:58	1/18/13 10:08
002_12	E130312-07	Subsurface Soil	1/12/13 10:30	1/18/13 10:08
9002_12	E130312-09	Subsurface Soil	1/12/13 10:30	1/18/13 10:08

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QM-1	Matrix Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Total Metals

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_10 **Lab ID:** E130312-01

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	5300		mg/kg dry	10	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-36-0	Antimony	0.20	U, J, QM-1	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7440-38-2	Arsenic	3.5		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7440-39-3	Barium	82		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-41-7	Beryllium	0.45		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-43-9	Cadmium	0.10	U	mg/kg dry	0.10	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7440-70-2	Calcium	8700		mg/kg dry	25	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-47-3	Chromium	9.8		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-48-4	Cobalt	3.9		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-50-8	Copper	5.8		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:30	EPA 6010
7439-89-6	Iron	9900		mg/kg dry	10	1/25/13 14:45	1/30/13 19:30	EPA 6010
7439-92-1	Lead	6.6		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7439-95-4	Magnesium	1200		mg/kg dry	25	1/25/13 14:45	1/30/13 19:30	EPA 6010
7439-96-5	Manganese	310		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-02-0	Nickel	7.0		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-09-7	Potassium	380		mg/kg dry	100	1/25/13 14:45	1/30/13 19:30	EPA 6010
7782-49-2	Selenium	1.3		mg/kg dry	0.40	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	1/25/13 14:45	2/04/13 18:26	EPA 6010
7440-23-5	Sodium	240		mg/kg dry	100	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-24-6	Strontium	25		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:32	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-32-6	Titanium	41	J, QM-1	mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-62-2	Vanadium	14		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-65-5	Yttrium	6.8		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:30	EPA 6010
7440-66-6	Zinc	21		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:30	EPA 6010

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Physical Properties

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_10 **Lab ID:** E130312-01

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	83		%	0.0	1/23/13 17:01	1/25/13 14:56	EPA 200.2

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Total Metals

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_12 **Lab ID:** E130312-07

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	8800		mg/kg dry	9.9	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7440-38-2	Arsenic	8.4		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7440-39-3	Barium	130		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-41-7	Beryllium	0.72		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-43-9	Cadmium	0.099	U	mg/kg dry	0.099	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7440-70-2	Calcium	1500		mg/kg dry	25	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-47-3	Chromium	16		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-48-4	Cobalt	6.3		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-50-8	Copper	13		mg/kg dry	0.99	1/25/13 14:45	1/30/13 19:50	EPA 6010
7439-89-6	Iron	21000		mg/kg dry	9.9	1/25/13 14:45	1/30/13 19:50	EPA 6010
7439-92-1	Lead	11		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7439-95-4	Magnesium	1800		mg/kg dry	25	1/25/13 14:45	1/30/13 19:50	EPA 6010
7439-96-5	Manganese	490		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7439-98-7	Molybdenum	0.99	U	mg/kg dry	0.99	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-02-0	Nickel	14		mg/kg dry	0.99	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-09-7	Potassium	460		mg/kg dry	99	1/25/13 14:45	1/30/13 19:50	EPA 6010
7782-49-2	Selenium	2.3		mg/kg dry	0.39	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7440-22-4	Silver	0.49	U	mg/kg dry	0.49	1/25/13 14:45	2/04/13 18:48	EPA 6010
7440-23-5	Sodium	150		mg/kg dry	99	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-24-6	Strontium	17		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:46	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-32-6	Titanium	45		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-62-2	Vanadium	27		mg/kg dry	0.49	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-65-5	Yttrium	13		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:50	EPA 6010
7440-66-6	Zinc	37		mg/kg dry	0.99	1/25/13 14:45	1/30/13 19:50	EPA 6010

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Physical Properties

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_12 **Lab ID:** E130312-07

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%	0.0	1/23/13 17:01	1/25/13 14:56	EPA 200.2

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Total Metals

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 9002_12 **Lab ID:** E130312-09
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	8800		mg/kg dry	10	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-36-0	Antimony	0.20	U	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7440-38-2	Arsenic	6.6		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7440-39-3	Barium	140		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-41-7	Beryllium	0.78		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-43-9	Cadmium	0.10		mg/kg dry	0.10	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7440-70-2	Calcium	1400		mg/kg dry	25	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-47-3	Chromium	20		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-48-4	Cobalt	14		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-50-8	Copper	12		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:55	EPA 6010
7439-89-6	Iron	23000		mg/kg dry	10	1/25/13 14:45	1/30/13 19:55	EPA 6010
7439-92-1	Lead	15		mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7439-95-4	Magnesium	1700		mg/kg dry	25	1/25/13 14:45	1/30/13 19:55	EPA 6010
7439-96-5	Manganese	810		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7439-98-7	Molybdenum	1.0	U	mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-02-0	Nickel	16		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-09-7	Potassium	400		mg/kg dry	100	1/25/13 14:45	1/30/13 19:55	EPA 6010
7782-49-2	Selenium	2.3		mg/kg dry	0.40	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	1/25/13 14:45	2/04/13 18:54	EPA 6010
7440-23-5	Sodium	160		mg/kg dry	100	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-24-6	Strontium	18		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg dry	0.20	1/25/13 14:51	2/15/13 18:50	EPA 200.8
7440-31-5	Tin	1.5	U	mg/kg dry	1.5	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-32-6	Titanium	39		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-62-2	Vanadium	33		mg/kg dry	0.50	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-65-5	Yttrium	13		mg/kg dry	0.30	1/25/13 14:45	1/30/13 19:55	EPA 6010
7440-66-6	Zinc	33		mg/kg dry	1.0	1/25/13 14:45	1/30/13 19:55	EPA 6010

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Physical Properties

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 9002_12 **Lab ID:** E130312-09

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%	0.0	1/23/13 17:01	1/25/13 14:56	EPA 200.2

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
Blank (1301103-BLK1)				Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	U	0.50	mg/kg dry							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							B-3, U
Copper	U	1.0	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U
Magnesium	U	25	"							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
Blank (1301103-BLK2)				Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	U	0.50	mg/kg dry							U
Beryllium	U	0.30	"							U
Cobalt	U	0.50	"							U
Chromium	U	0.50	"							U
Copper	U	1.0	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Tin	U	1.5	"							U
Strontium	U	0.50	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U
Aluminum	U	10	"							U
Manganese	U	0.50	"							U
Calcium	U	25	"							U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
Blank (1301103-BLK2)				Prepared: 01/25/13 Analyzed: 01/30/13						
Magnesium	U	25	mg/kg dry							U
Iron	U	10	"							U
Sodium	U	100	"							U
Potassium	U	100	"							U
Blank (1301103-BLK3)				Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
Blank (1301103-BLK4)				Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	U	0.50	mg/kg dry							U
LCS (1301103-BS1)				Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	47.774	0.50	mg/kg dry	50.000		95.5	85-115			
Beryllium	20.061	0.30	"	20.000		100	85-115			
Cobalt	46.986	0.50	"	50.000		94.0	85-115			
Chromium	47.886	0.50	"	50.000		95.8	85-115			
Copper	28.732	1.0	"	30.000		95.8	85-115			
Molybdenum	29.660	1.0	"	30.000		98.9	85-115			
Nickel	75.703	1.0	"	80.000		94.6	85-115			
Tin	101.39	1.5	"	100.00		101	85-115			
Strontium	39.240	0.50	"	40.000		98.1	85-115			
Titanium	49.157	0.50	"	50.000		98.3	85-115			
Vanadium	39.147	0.50	"	40.000		97.9	85-115			
Yttrium	29.641	0.30	"	30.000		98.8	85-115			
Zinc	94.887	1.0	"	100.00		94.9	85-115			
Aluminum	523.67	10	"	500.00		105	85-115			
Manganese	512.44	0.50	"	500.00		102	85-115			
Calcium	519.05	25	"	500.00		104	85-115			
Magnesium	524.70	25	"	500.00		105	85-115			
Iron	533.62	10	"	500.00		107	85-115			
Sodium	1028.0	100	"	1000.0		103	85-115			
Potassium	1003.2	100	"	1000.0		100	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
LCS (1301103-BS2)				Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	10.112	0.50	mg/kg dry	10.000		101	85-115			
Matrix Spike (1301103-MS1)	**Source: E130312-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	124.89	0.50	mg/kg dry	49.801	82.277	85.6	75-125			
Beryllium	20.329	0.30	"	19.920	0.45181	99.8	75-125			
Cobalt	50.592	0.50	"	49.801	3.9001	93.8	75-125			
Chromium	55.919	0.50	"	49.801	9.7626	92.7	75-125			
Copper	33.328	1.0	"	29.880	5.8002	92.1	75-125			
Molybdenum	26.433	1.0	"	29.880	0.69501	86.1	75-125			
Nickel	79.831	1.0	"	79.681	6.9732	91.4	75-125			
Tin	90.202	1.5	"	99.602	U	90.6	75-125			
Strontium	61.656	0.50	"	39.841	24.620	93.0	75-125			
Titanium	74.261	0.50	"	49.801	41.347	66.1	75-125			QM-1
Vanadium	51.275	0.50	"	39.841	13.616	94.5	75-125			
Yttrium	35.763	0.30	"	29.880	6.8370	96.8	75-125			
Zinc	113.72	1.0	"	99.602	20.746	93.3	75-125			
Aluminum	5266.4	10	"	498.01	5263.7	0.545	75-125			XM-1
Manganese	795.09	0.50	"	498.01	307.37	97.9	75-125			
Calcium	8427.8	25	"	498.01	8707.6	NR	75-125			XM-1
Magnesium	1616.9	25	"	498.01	1201.2	83.5	75-125			
Iron	9688.6	10	"	498.01	9943.0	NR	75-125			XM-1
Sodium	1237.5	100	"	996.02	242.14	99.9	75-125			
Potassium	1315.8	100	"	996.02	375.70	94.4	75-125			
Matrix Spike (1301103-MS2)	**Source: E130313-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	122.63	0.50	mg/kg dry	49.662	79.087	87.7	75-125			
Beryllium	20.325	0.30	"	19.865	0.43754	100	75-125			
Cobalt	53.063	0.50	"	49.662	5.1931	96.4	75-125			
Chromium	61.622	0.50	"	49.662	15.583	92.7	75-125			
Copper	39.535	0.99	"	29.797	10.204	98.4	75-125			
Molybdenum	26.047	0.99	"	29.797	1.0816	83.8	75-125			
Nickel	82.451	0.99	"	79.460	6.9279	95.0	75-125			
Tin	88.743	1.5	"	99.325	0.47897	88.9	75-125			
Strontium	41.221	0.50	"	39.730	4.3442	92.8	75-125			
Titanium	80.709	0.50	"	49.662	50.916	60.0	75-125			QM-1
Vanadium	59.969	0.50	"	39.730	24.140	90.2	75-125			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
Matrix Spike (1301103-MS2)	**Source: E130313-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
Yttrium	34.350	0.30	mg/kg dry	29.797	5.4710	96.9	75-125			
Zinc	1579.9	0.99	"	99.325	1464.4	116	75-125			XM-1
Aluminum	6368.6	9.9	"	496.62	6610.2	NR	75-125			XM-1
Manganese	1096.4	0.50	"	496.62	668.33	86.2	75-125			
Calcium	3802.9	25	"	496.62	3247.5	112	75-125			
Magnesium	1043.1	25	"	496.62	539.08	101	75-125			
Iron	14402	9.9	"	496.62	15956	NR	75-125			XM-1
Sodium	997.98	99	"	993.25	20.784	98.4	75-125			
Potassium	1122.3	99	"	993.25	167.16	96.2	75-125			
Matrix Spike (1301103-MS3)	**Source: E130312-01RE1**			Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	9.6671	0.50	mg/kg dry	9.9602	U	97.1	75-125			
Matrix Spike (1301103-MS4)	**Source: E130313-01RE1**			Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	9.7791	0.50	mg/kg dry	9.9325	U	98.5	75-125			
Matrix Spike (1301103-MS5)	**Source: E130313-01RE2**			Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 6010										
Zinc	1752.7	9.0	mg/kg dry	99.602	1651.1	102	75-125			XM-1
Matrix Spike Dup (1301103-MSD1)	**Source: E130312-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	125.36	0.49	mg/kg dry	49.397	82.277	87.2	75-125	0.382	20	
Beryllium	19.904	0.30	"	19.759	0.45181	98.4	75-125	2.11	20	
Cobalt	50.214	0.49	"	49.397	3.9001	93.8	75-125	0.750	20	
Chromium	55.588	0.49	"	49.397	9.7626	92.8	75-125	0.594	20	
Copper	33.099	0.99	"	29.638	5.8002	92.1	75-125	0.690	20	
Molybdenum	25.382	0.99	"	29.638	0.69501	83.3	75-125	4.05	20	
Nickel	78.239	0.99	"	79.036	6.9732	90.2	75-125	2.01	20	
Tin	87.793	1.5	"	98.795	U	88.9	75-125	2.71	20	
Strontium	61.261	0.49	"	39.518	24.620	92.7	75-125	0.643	20	
Titanium	72.533	0.49	"	49.397	41.347	63.1	75-125	2.35	20	QM-1
Vanadium	50.840	0.49	"	39.518	13.616	94.2	75-125	0.851	20	
Yttrium	35.426	0.30	"	29.638	6.8370	96.5	75-125	0.947	20	
Zinc	111.72	0.99	"	98.795	20.746	92.1	75-125	1.78	20	
Aluminum	5303.8	9.9	"	493.97	5263.7	8.13	75-125	0.709	20	XM-1

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
Matrix Spike Dup (1301103-MSD1)	**Source: E130312-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
Manganese	791.98	0.49	mg/kg dry	493.97	307.37	98.1	75-125	0.393	20	
Calcium	9095.3	25	"	493.97	8707.6	78.5	75-125	7.62	20	XM-1
Magnesium	1659.8	25	"	493.97	1201.2	92.9	75-125	2.62	20	
Iron	9920.8	9.9	"	493.97	9943.0	NR	75-125	2.37	20	XM-1
Sodium	1225.1	99	"	987.95	242.14	99.5	75-125	1.01	20	
Potassium	1292.2	99	"	987.95	375.70	92.8	75-125	1.81	20	
Matrix Spike Dup (1301103-MSD2)	**Source: E130313-01**			Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	121.77	0.50	mg/kg dry	49.525	79.087	86.2	75-125	0.702	20	
Beryllium	19.841	0.30	"	19.810	0.43754	97.9	75-125	2.41	20	
Cobalt	51.479	0.50	"	49.525	5.1931	93.5	75-125	3.03	20	
Chromium	59.962	0.50	"	49.525	15.583	89.6	75-125	2.73	20	
Copper	37.658	0.99	"	29.715	10.204	92.4	75-125	4.86	20	
Molybdenum	24.577	0.99	"	29.715	1.0816	79.1	75-125	5.81	20	
Nickel	80.392	0.99	"	79.239	6.9279	92.7	75-125	2.53	20	
Tin	83.939	1.5	"	99.049	0.47897	84.3	75-125	5.56	20	
Strontium	41.639	0.50	"	39.620	4.3442	94.1	75-125	1.01	20	
Titanium	75.279	0.50	"	49.525	50.916	49.2	75-125	6.96	20	QM-1
Vanadium	57.370	0.50	"	39.620	24.140	83.9	75-125	4.43	20	
Yttrium	33.504	0.30	"	29.715	5.4710	94.3	75-125	2.49	20	
Zinc	1536.6	0.99	"	99.049	1464.4	72.9	75-125	2.78	20	XM-1
Aluminum	6132.5	9.9	"	495.25	6610.2	NR	75-125	3.78	20	XM-1
Manganese	1108.1	0.50	"	495.25	668.33	88.8	75-125	1.07	20	
Calcium	3650.9	25	"	495.25	3247.5	81.5	75-125	4.08	20	
Magnesium	1006.3	25	"	495.25	539.08	94.3	75-125	3.59	20	
Iron	14363	9.9	"	495.25	15956	NR	75-125	0.270	20	XM-1
Sodium	1003.8	99	"	990.49	20.784	99.2	75-125	0.578	20	
Potassium	1108.6	99	"	990.49	167.16	95.0	75-125	1.23	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
Matrix Spike Dup (1301103-MSD3)	**Source: E130312-01RE1**			Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	9.8199	0.50	mg/kg dry	9.9602	U	98.6	75-125	1.57	20	
Matrix Spike Dup (1301103-MSD4)	**Source: E130313-01RE1**			Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	9.3525	0.50	mg/kg dry	9.9325	U	94.2	75-125	4.46	20	
Matrix Spike Dup (1301103-MSD5)	**Source: E130313-01RE2**			Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 6010										
Zinc	1707.2	9.0	mg/kg dry	99.602	1651.1	56.3	75-125	2.63	20	XM-1
MRL Verification (1301103-PS1)				Prepared: 01/25/13 Analyzed: 01/30/13						
EPA 6010										
Barium	0.41396	0.50	mg/kg dry	0.50000		82.8	70-130			MRL-3, U
Beryllium	0.29814	0.30	"	0.30000		99.4	70-130			MRL-3, U
Cobalt	0.49932	0.50	"	0.50000		99.9	70-130			MRL-3, U
Chromium	0.72611	0.50	"	0.50000		145	70-130			MRL-3, QR-2
Copper	1.0747	1.0	"	1.0000		107	70-130			MRL-3
Molybdenum	0.99280	1.0	"	1.0000		99.3	70-130			MRL-3, U
Nickel	1.0363	1.0	"	1.0000		104	70-130			MRL-3
Tin	1.5872	1.5	"	1.5000		106	70-130			MRL-3
Strontium	0.46933	0.50	"	0.50000		93.9	70-130			MRL-3, U
Titanium	0.48529	0.50	"	0.50000		97.1	70-130			MRL-3, U
Vanadium	0.45434	0.50	"	0.50000		90.9	70-130			MRL-3, U
Yttrium	0.31280	0.30	"	0.30000		104	70-130			MRL-3
Zinc	1.1304	1.0	"	1.0000		113	70-130			MRL-3
Aluminum	10.192	10	"	10.000		102	70-130			MRL-3
Manganese	0.50614	0.50	"	0.50000		101	70-130			MRL-3
Calcium	26.987	25	"	25.000		108	70-130			MRL-3
Magnesium	22.421	25	"	25.000		89.7	70-130			MRL-3, U
Iron	10.888	10	"	10.000		109	70-130			MRL-3
Sodium	93.930	100	"	100.00		93.9	70-130			MRL-3, U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301103 - M 200.2 Metals Soil										
MRL Verification (1301103-PS1)				Prepared: 01/25/13 Analyzed: 01/30/13						
Potassium	99.117	100	mg/kg dry	100.00		99.1	70-130			MRL-3, U
MRL Verification (1301103-PS2)				Prepared: 01/25/13 Analyzed: 02/04/13						
EPA 6010										
Silver	0.49673	0.50	mg/kg dry	0.50000		99.3	70-130			MRL-2, U
Batch 1301104 - M 200.2 Metals Soil										
Blank (1301104-BLK1)				Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U
Blank (1301104-BLK2)				Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	U	0.10	mg/kg dry							U
Selenium	U	0.20	"							U
Cadmium	U	0.050	"							U
Antimony	U	0.10	"							U
Thallium	U	0.10	"							U
Lead	U	0.10	"							U
LCS (1301104-BS1)				Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	49.966	1.0	mg/kg dry	50.000		99.9	85-115			
Selenium	98.642	2.0	"	100.00		98.6	85-115			
Cadmium	19.986	0.50	"	20.000		99.9	85-115			
Antimony	97.631	1.0	"	100.00		97.6	85-115			
Thallium	19.491	1.0	"	20.000		97.5	85-115			
Lead	102.26	1.0	"	100.00		102	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301104 - M 200.2 Metals Soil										
Matrix Spike (1301104-MS1)	**Source: E130312-01**			Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	53.141	1.0	mg/kg dry	49.801	3.5065	99.7	70-130			
Selenium	100.31	2.0	"	99.602	1.3473	99.4	70-130			
Cadmium	20.103	0.50	"	19.920	0.084251	100	70-130			
Antimony	24.615	1.0	"	99.602	0.024467	24.7	70-130			QM-1
Thallium	19.204	1.0	"	19.920	0.12976	95.8	70-130			
Lead	106.60	1.0	"	99.602	6.6091	100	70-130			
Matrix Spike (1301104-MS2)	**Source: E130313-01**			Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	57.079	0.99	mg/kg dry	49.662	12.247	90.3	70-130			
Selenium	74.949	2.0	"	99.325	1.3288	74.1	70-130			
Cadmium	41.543	0.50	"	19.865	19.728	110	70-130			
Antimony	31.966	0.99	"	99.325	0.12077	32.1	70-130			QM-1
Thallium	18.580	0.99	"	19.865	0.14572	92.8	70-130			
Lead	118.13	0.99	"	99.325	19.904	98.9	70-130			
Matrix Spike Dup (1301104-MSD1)	**Source: E130312-01**			Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	50.448	0.99	mg/kg dry	49.397	3.5065	95.0	70-130	5.20	20	
Selenium	93.283	2.0	"	98.795	1.3473	93.1	70-130	7.26	20	
Cadmium	19.401	0.49	"	19.759	0.084251	97.8	70-130	3.55	20	
Antimony	21.736	0.99	"	98.795	0.024467	22.0	70-130	12.4	20	QM-1
Thallium	19.101	0.99	"	19.759	0.12976	96.0	70-130	0.535	20	
Lead	104.83	0.99	"	98.795	6.6091	99.4	70-130	1.67	20	
Matrix Spike Dup (1301104-MSD2)	**Source: E130313-01**			Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	55.356	0.99	mg/kg dry	49.525	12.247	87.0	70-130	3.06	20	
Selenium	70.866	2.0	"	99.049	1.3288	70.2	70-130	5.60	20	
Cadmium	41.079	0.50	"	19.810	19.728	108	70-130	1.12	20	
Antimony	30.178	0.99	"	99.049	0.12077	30.3	70-130	5.76	20	QM-1
Thallium	18.379	0.99	"	19.810	0.14572	92.0	70-130	1.09	20	
Lead	114.85	0.99	"	99.049	19.904	95.9	70-130	2.81	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301104 - M 200.2 Metals Soil										
MRL Verification (1301104-PS1)				Prepared: 01/25/13 Analyzed: 02/15/13						
EPA 200.8										
Arsenic	0.14950	0.10	mg/kg dry	0.10000		149	65-135			MRL-3, QR-2
Selenium	0.21137	0.20	"	0.20000		106	65-135			MRL-3
Cadmium	0.051470	0.050	"	0.050000		103	65-135			MRL-3
Antimony	0.048188	0.10	"	0.050000		96.4	65-135			MRL-3, U
Thallium	0.042441	0.10	"	0.050000		84.9	65-135			MRL-3, U
Lead	0.10844	0.10	"	0.10000		108	65-135			MRL-3

Physical Properties (PHYSP) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301087 - M % Solids										
Duplicate (1301087-DUP1)		**Source: E130313-06**		Prepared: 01/23/13 Analyzed: 01/25/13						
EPA 200.2										
% Solids	75.070	0.0	%		74.820			0.334	10	

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
QM-1	Matrix Spike Recovery less than method control limits
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

February 26, 2013

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0182, Southeastern Wood Preserving
Superfund Remedial

FROM: Jeffrey Hendel
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Dioxin (DIO)	
Dioxin	Contract SOW (Soil)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Report Narrative for Work Order C130703, Project: 13-0182
Site Name: Southeastern Wood Preserving, Canton, MS
Case 43272, ELEMENT Sample Nos. C130703-01 through C130703-03
C130704-01, 02 (PES only)

Dioxin Analysis: Cape Fear Analytical, LLC, Wilmington, NC

The ESAT Work Team reviewed data for the project cited above consisting of three soil samples analyzed per Statement of Work DLM02.2 for dioxins and furans. The samples were collected between 01/08/13 and 01/12/13, and received by the laboratory on 01/18/13. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 02/11/13. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed one performance evaluation sample (PES) for evaluating the laboratory's performance with using the methods.

A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case. The data package presents acceptable technical performance with qualifications.

Certain results among these data are reported as not detected at an elevated detection limit. In general, this may occur when method blank contamination is evident, or when one or more of the qualitative identification criteria have not been met. In the event of method blank contamination, detection limits may be raised as much as five times the level of contamination in order to discount false positive results. If qualitative identification criteria are not met for an analyte, an estimated maximum possible concentration (EMPC) value is reported, and is qualified as a non-detect ("U" flag).

The method reporting limit (MRL), as defined elsewhere in this document, is used in dioxin/furan analyses to report the analyte concentration which corresponds to the lowest quantitative point on the calibration curve. Any positive results less than this value are qualified as estimated ("J" flag). The value reported for a 2,3,7,8-substituted PCDD/PCDF analyte that is not detected is either an estimated detection limit (EDL), which is calculated from the instrument signal to system noise ratio, or an EMPC value as described above, qualified with a "U" flag.

Toxic equivalent quantities (TEQ) have been reported for these data which have been derived from the most recent set of toxic equivalent factors (TEF). For mammalian TEQs, these factors were published in 2005 by the World Health Organization (WHO). In the case of the TEQs for birds and fish, the factors were published by WHO in 1998.

Toxic equivalent values for non-detected results are determined using the EDL or the EMPC as a proxy value. Thus a sample with non-detected results for all PCDD/PCDF congeners will still have a positive TEQ value. The TEQ is qualified as estimated "J" when the sum of the contributions from the various PCDD/PCDF analytes that are themselves reported as either estimated "J" (D-5) or non-detect "U" exceeds 10% of the TEQ total. If no positive results are present for any of the 2,3,7,8 congeners, the TEQ is reported

as not detected with an estimated detection limit "UJ" (D-5).

Sample C130703-01 was analyzed at a dilution due to interferences observed in the original analysis. Reporting limits are elevated.

The percent recovery of the labeled 1,2,3,7,8,9-HxCDF internal standard was less than the quality control limits for sample C130703-01. All non-detected congeners associated with this internal standard were qualified "J" (QI-1).

The laboratory encountered poor chromatography for the following congeners and samples:

1,2,3,4,7,8-, 1,2,3,6,7,8-, and 2,3,4,6,7,8-HxCDF in samples C130703-02 and 3;
1,2,3,4,7,8-, 1,2,3,6,7,8- , and 1,2,3,7,8,9-HxCDD in sample C130703-03; and,
1,2,3,7,8-PeCDD, 2,3,4,7,8- PeCDF, 1,2,3,4,7,8- and 1,2,3,6,7,8-HxCDF in sample C130703-01.

The results for each of these congeners were qualified "J" (CLP33) in the respective samples.

Since the analysis time for dioxins/furans may exceed the long-term mass stability of the mass spectrometer, and since the instrument operates in the high resolution mode, the method requires the laboratory to use mass-drift correction. This is performed by adding a known compound during sample analysis and monitoring specific ions and measuring their mass drift. In all three samples, the mass drift was greater than the allowed 10% for congener 1,2,3,7,8,9-HxCDF. This congener was qualified "J" (CR-Instrument Sensitivity Shift).

The OCDD congener was greater than the upper limit of the initial calibration in sample C130703-02 and was qualified "J" (CLP02). The method does not require dilutions for this congener.

The results for all "Total" congeners are estimated "J" (Q-3) since the instrumentation is not calibrated for the non 2,3,7,8-congeners.

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the Region 4 SESD Records Center.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 13-0015

Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
001_10	C130703-01		72N7	Subsurface Soil	1/8/13 10:58
002_12	C130703-02		72N4	Subsurface Soil	1/12/13 10:30
9002_12	C130703-03		72N5	Subsurface Soil	1/12/13 10:30

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP13	Difference between GC columns above method action limit
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
CLP24	Result has not been confirmed by second column analysis.
CLP33	Poor Chromatography - Split Peaks and/or Poor Peak Shape Present
CR	Instrument Sensitivity Shift
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.
QI-1	Internal standard was outside of method control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID: 001_10 **Lab ID: C130703-01** **MD No:**

Station ID: SWP001 **Matrix: Subsurface Soil** **D No: 72N7 CAPE**

Date Collected: 1/8/13 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		1/29/13	2/07/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	700		ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	430		ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	15	J, CLP01	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.7	J, CLP01	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	11	J, CLP01, CLP33	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	19	J, CLP01	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.7	J, CLP01, CLP33	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	3.9	J, CLP01	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.6	U, J, CR, QI-1	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.4	J, CLP01, CLP33	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.99	U	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2.2	U, CLP18	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.7	J, CLP01, CLP33	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.63	U	ng/kg dry	9.9	1/29/13	2/07/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.8	J, CLP01, CLP24	ng/kg dry	9.9	1/29/13	2/07/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	2500	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1600	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	160	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	410	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	8200		ng/kg dry	99	1/29/13	2/07/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1700		ng/kg dry	99	1/29/13	2/07/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	3.9	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	22	J, Q-3	ng/kg dry	49	1/29/13	2/07/13	CL DLM02.2

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D.A.R.T. Id: 13-0015
Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0182, Southeastern Wood Preserving

Contract Lab Case: 43272

Sample ID: 001_10

Lab ID: C130703-01

MD No:

Station ID: SWP001

Matrix: Subsurface Soil

D No: 72N7 CAPE

Date Collected: 1/8/13 10:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	18	J, D-5	ng/kg dry	18	1/29/13	2/07/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	14	J, D-5	ng/kg dry	14	1/29/13	2/07/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	23	J, D-5	ng/kg dry	23	1/29/13	2/07/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.63	U, J, Q-3	ng/kg dry	9.9	1/29/13	2/07/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	4.3	J, Q-3	ng/kg dry	9.9	1/29/13	2/07/13	CL DLM02.2

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Dioxin

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID: 002_12 **Lab ID: C130703-02** **MD No:**

Station ID: SWP002 **Matrix: Subsurface Soil** **D No: 72N4 CAPE**

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		1/29/13	2/03/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	830		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	350		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	14		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.6	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	8.4	J, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	20		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	3.1	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	5.4		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.5	J, CLP01, CR	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.61	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.58	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	5.3	J, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.6	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.16	U, CLP13	ng/kg dry	1.0	1/29/13	2/03/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.28	J, CLP01, CLP24	ng/kg dry	1.0	1/29/13	2/03/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	2700	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1200	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	200	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	320	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	9800	J, CLP02	ng/kg dry	10	1/29/13	2/03/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1200		ng/kg dry	10	1/29/13	2/03/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	11	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	18	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	13	J, D-5	ng/kg dry	13	1/29/13	2/03/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	12	J, D-5	ng/kg dry	12	1/29/13	2/03/13	CL DLM02.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID: 002_12 **Lab ID: C130703-02** **MD No:**

Station ID: SWP002 **Matrix: Subsurface Soil** **D No: 72N4 CAPE**

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	22	J, D-5	ng/kg dry	22	1/29/13	2/03/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.71	J, Q-3	ng/kg dry	1.0	1/29/13	2/03/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	3.3	J, Q-3	ng/kg dry	1.0	1/29/13	2/03/13	CL DLM02.2

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Dioxin

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID: 9002_12 **Lab ID: C130703-03** **MD No:**

Station ID: SWP002 **Matrix: Subsurface Soil** **D No: 72N5 CAPE**

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		1/29/13	2/03/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	210		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	93		ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	4.1	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	1.3	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	2.4	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	5.7	J, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.95	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	1.8	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.52	J, CLP01, CR	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	0.16	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.16	U	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	1.4	J, CLP01, CLP33	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.0	J, CLP01	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.12	U	ng/kg dry	0.99	1/29/13	2/03/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.16	U	ng/kg dry	0.99	1/29/13	2/03/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	660	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	320	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	59	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	90	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	2300		ng/kg dry	9.9	1/29/13	2/03/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	310		ng/kg dry	9.9	1/29/13	2/03/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	3.3	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	9.6	J, Q-3	ng/kg dry	5.0	1/29/13	2/03/13	CL DLM02.2

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D.A.R.T. Id: 13-0015
Project: 13-0182, Southeastern Wood Preserving - Reported by Jeffrey Hendel

Dioxin

Project: 13-0182, Southeastern Wood Preserving **Contract Lab Case: 43272**

Sample ID: 9002_12 **Lab ID: C130703-03** **MD No:**

Station ID: SWP002 **Matrix: Subsurface Soil** **D No: 72N5 CAPE**

Date Collected: 1/12/13 10:30

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	3.8	J, D-5	ng/kg dry	3.8	1/29/13	2/03/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	3.5	J, D-5	ng/kg dry	3.5	1/29/13	2/03/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	5.9	J, D-5	ng/kg dry	5.9	1/29/13	2/03/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.18	J, Q-3	ng/kg dry	0.99	1/29/13	2/03/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	0.74	J, Q-3	ng/kg dry	0.99	1/29/13	2/03/13	CL DLM02.2

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DATA USABILITY REPORT

DATE: February 26, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0175

SAMPLE DATE: January 8-15, 2013

SAMPLES:

Semivolatile Organic Compounds

001_19	9001_69	002_67.5
001_296	001_300	
001_69	002_12	

Metals

001_10
002_12
9002_12

OVERVIEW:

This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008, USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0175 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0175 were 10 soil samples. The soil samples were analyzed for semivolatile compounds or metals.

MAJOR ISSUES

Metals

None.

Semivolatile Organic Compounds

None.

MINOR ISSUES

Metals

One sample result for antimony was qualified "UJ," estimated at the minimum reporting limit (MRL), because the matrix spike recovery was lower than the method control limits.

One sample result for titanium was qualified "J," estimated, because the matrix spike recovery was lower than the method control limits.

Semivolatile Organic Compounds

The laboratory control spike recovery was less than the method control limit for 4-chloroaniline. Associated sample results were qualified "UJ," estimated at the MRL.

The laboratory control spike recovery and matrix spike recovery were less than the method control limits for atrazine. The associated sample results were qualified "UJ," estimate at the MRL.

Presumptive evidence exists that tentatively identified compounds were detected in several samples. The sample results were reported as tentative identifications with an estimated value and qualified "NJ."

Field Duplicate

Field duplicate 9001_69 was collected for parent sample 001_69. The relative percent differences were not calculable because all compounds were non-detect in sample 9001_69.

Field duplicate 9002_12 was collected with parent sample 002_12. The calculable RPDs are represented below:

Compound	RPD
Aluminum	0.0
Arsenic	24.0
Barium	7.4
Beryllium	8.0
Calcium	6.9
Chromium	22.2
Cobalt	75.9
Copper	8.0
Iron	9.1
Lead	30.8
Magnesium	5.7
Manganese	49.2
Nickel	13.3
Potassium	14.0
Selenium	0.0
Sodium	6.5
Strontium	5.7
Titanium	14.3
Vanadium	20.0
Yttrium	0.0
Zinc	11.4

The analytes with RPDs less than the acceptable limit for inorganics (20%) can be used as duplicates.

NOTES

The analytical data included for project number 13-0175 are of sufficient quality and are deemed acceptable for their intended use.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Mike Wasko

February 28, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0188, Southeastern Wood Preserving
Superfund Remedial

FROM: Mike Wasko
ASB Inorganic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Classical/Nutrient Analyses (CNA)		
Classical/Nutrients	EPA 300.0 (Water)	ISO
Classical/Nutrients	SM 2320B (Water)	ISO
Classical/Nutrients	SM 5310B (Water)	ISO
Nitrate and/or Nitrite	EPA 353.2 (Water)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

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SAMPLES INCLUDED IN THIS REPORT

Project: 13-0188, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
MW001	E130403-02	Groundwater	1/22/13 12:37	1/24/13 9:50
MW9001	E130403-03	Groundwater	1/22/13 12:37	1/24/13 9:50
SWP002	E130403-04	Groundwater	1/22/13 16:04	1/24/13 9:50

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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
P-3	Sample received unpreserved

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Project: 13-0188, Southeastern Wood Preserving - Reported by Mike Wasko

Classical/Nutrient Analyses

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	88		mg/L	1.0	1/31/13 19:04	1/31/13 19:04	SM 2320B
14808-79-8	Sulfate as SO4	50		mg/L	0.10	2/12/13 13:40	2/14/13 9:31	EPA 300.0
E701250	Total Organic Carbon	2.2	P-3	mg/L	1.0	2/01/13 8:37	2/01/13 16:12	SM 5310B
E701177	Nitrate/Nitrite as N	0.050	U	mg/L	0.050	2/04/13 17:28	2/04/13 17:28	EPA 353.2

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Classical/Nutrient Analyses

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	89		mg/L	1.0	1/31/13 19:11	1/31/13 19:11	SM 2320B
14808-79-8	Sulfate as SO4	50		mg/L	0.10	2/12/13 13:40	2/14/13 9:52	EPA 300.0
E701250	Total Organic Carbon	2.9	P-3	mg/L	1.0	2/01/13 8:37	2/01/13 17:20	SM 5310B
E701177	Nitrate/Nitrite as N	0.050	U	mg/L	0.050	2/04/13 17:28	2/04/13 17:28	EPA 353.2

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Classical/Nutrient Analyses

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP002 **Lab ID:** E130403-04

Station ID: MW002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1640192	Alkalinity, Total (as CaCO3)	310		mg/L	1.0	1/31/13 19:19	1/31/13 19:19	SM 2320B
14808-79-8	Sulfate as SO4	15		mg/L	0.10	2/12/13 13:40	2/14/13 10:14	EPA 300.0
E701250	Total Organic Carbon	7.3	P-3	mg/L	1.0	2/01/13 8:37	2/01/13 17:45	SM 5310B
E701177	Nitrate/Nitrite as N	0.050	U	mg/L	0.050	2/04/13 17:28	2/04/13 17:28	EPA 353.2

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301112 - C 353.2 NO3-NO2										
Blank (1301112-BLK1)				Prepared & Analyzed: 02/04/13						
EPA 353.2										
Nitrate/Nitrite as N	U	0.050	mg/L							U
LCS (1301112-BS1)				Prepared & Analyzed: 02/04/13						
EPA 353.2										
Nitrate/Nitrite as N	0.50790	0.050	mg/L	0.50000		102	90-110			
Matrix Spike (1301112-MS1)	**Source: E130403-04**			Prepared & Analyzed: 02/04/13						
EPA 353.2										
Nitrate/Nitrite as N	0.48990	0.050	mg/L	0.50000	U	98.0	90-110			
Matrix Spike Dup (1301112-MSD1)	**Source: E130403-04**			Prepared & Analyzed: 02/04/13						
EPA 353.2										
Nitrate/Nitrite as N	0.52140	0.050	mg/L	0.50000	U	104	90-110	6.23	10	
MRL Verification (1301112-PS1)				Prepared & Analyzed: 02/04/13						
EPA 353.2										
Nitrate/Nitrite as N	0.044400	0.050	mg/L	0.050000		88.8	70-130			MRL-2, U
Batch 1301130 - C 2320B Alkalinity										
Blank (1301130-BLK1)				Prepared & Analyzed: 01/31/13						
SM 2320B										
Alkalinity, Total (as CaCO3)	U	1.0	mg/L							U
LCS (1301130-BS1)				Prepared & Analyzed: 01/31/13						
SM 2320B										
Alkalinity, Total (as CaCO3)	52.921	1.0	mg/L	50.000		106	92-115			
LCS Dup (1301130-BSD1)				Prepared & Analyzed: 01/31/13						
SM 2320B										
Alkalinity, Total (as CaCO3)	52.574	1.0	mg/L	50.000		105	92-115	0.658	10	
Duplicate (1301130-DUP1)	**Source: E130402-07**			Prepared & Analyzed: 01/31/13						
SM 2320B										
Alkalinity, Total (as CaCO3)	322.73	1.0	mg/L		322.89			0.0477	10	

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301130 - C 2320B Alkalinity										
MRL Verification (1301130-PS1)				Prepared & Analyzed: 01/31/13						
SM 2320B										
Alkalinity, Total (as CaCO3)	1.0160	1.0	mg/L	1.0000		102	72-135			MRL-2
Batch 1302001 - C 415 TOC Wtr										
Blank (1302001-BLK1)				Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	U	1.0	mg/L							U
LCS (1302001-BS1)				Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	48.130	1.0	mg/L	50.000		96.3	90-110			
LCS (1302001-BS2)				Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	5.1510	1.0	mg/L	5.0000		103	90-110			
LCS Dup (1302001-BSD1)				Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	48.710	1.0	mg/L	50.000		97.4	90-110	1.20	10	
Matrix Spike (1302001-MS1)	**Source: E130402-05**			Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	58.390	1.0	mg/L	50.000	10.950	94.9	86.7-107			
Matrix Spike (1302001-MS2)	**Source: E130403-04**			Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	56.010	1.0	mg/L	50.000	7.3140	97.4	86.7-107			
Matrix Spike Dup (1302001-MSD1)	**Source: E130402-05**			Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	58.190	1.0	mg/L	50.000	10.950	94.5	86.7-107	0.343	10	
Matrix Spike Dup (1302001-MSD2)	**Source: E130403-04**			Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	53.630	1.0	mg/L	50.000	7.3140	92.6	86.7-107	4.34	10	

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1302001 - C 415 TOC Wtr										
MRL Verification (1302001-PS1)				Prepared & Analyzed: 02/01/13						
SM 5310B										
Total Organic Carbon	1.0900	1.0	mg/L	1.0000		109	70-130			MRL-2
Batch 1302049 - C 300.0 Ion Chromat										
Blank (1302049-BLK1)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK2)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK3)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK4)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK5)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK6)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Blank (1302049-BLK7)				Prepared & Analyzed: 02/12/13						
EPA 300.0										
Sulfate as SO4	U	0.10	mg/L							U
Duplicate (1302049-DUP1)		**Source: E130401-09**		Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	18.824	0.10	mg/L		18.907			0.440	10	

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Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1302049 - C 300.0 Ion Chromat										
Duplicate (1302049-DUP2)	**Source: E130402-09**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	3.7150	0.10	mg/L		3.7540			1.04	10	
Duplicate (1302049-DUP3)	**Source: E130403-04**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	15.249	0.10	mg/L		15.286			0.242	10	
Duplicate (1302049-DUP5)	**Source: E130503-09RE1**			Prepared: 02/12/13 Analyzed: 02/25/13						
EPA 300.0										
Sulfate as SO4	1801.3	10	mg/L		1798.6			0.150	10	
Matrix Spike (1302049-MS1)	**Source: E130401-09**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	19.500	0.10	mg/L	1.0000	18.907	59.3	90-110			XM-1
Matrix Spike (1302049-MS2)	**Source: E130401-09**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	38.909	0.10	mg/L	20.000	18.907	100	90-110			
Matrix Spike (1302049-MS3)	**Source: E130402-09**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	4.6590	0.10	mg/L	1.0000	3.7540	90.5	90-110			
Matrix Spike (1302049-MS4)	**Source: E130402-09**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	24.391	0.10	mg/L	20.000	3.7540	103	90-110			
Matrix Spike (1302049-MS5)	**Source: E130403-04**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	16.051	0.10	mg/L	1.0000	15.286	76.5	90-110			XM-1
Matrix Spike (1302049-MS6)	**Source: E130403-04**			Prepared: 02/12/13 Analyzed: 02/14/13						
EPA 300.0										
Sulfate as SO4	35.197	0.10	mg/L	20.000	15.286	99.6	90-110			
Matrix Spike (1302049-MS9)	**Source: E130503-09RE1**			Prepared: 02/12/13 Analyzed: 02/25/13						

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Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1302049 - C 300.0 Ion Chromat										
Matrix Spike (1302049-MS9)		**Source: E130503-09RE1**		Prepared: 02/12/13 Analyzed: 02/25/13						
EPA 300.0										
Sulfate as SO4	18.985		mg/L	1.0000	17.986	99.9	90-110			XM-1
Matrix Spike (1302049-MSA)		**Source: E130503-09RE1**		Prepared: 02/12/13 Analyzed: 02/25/13						
EPA 300.0										
Sulfate as SO4	38.838		mg/L	20.000	17.986	104	90-110			
MRL Verification (1302049-PS1)				Prepared: 02/12/13 Analyzed: 02/13/13						
EPA 300.0										
Sulfate as SO4	0.085000	0.10	mg/L	0.10000		85.0	70-130			MRL-2, U

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
XM-1	Sample background/spike ratio higher than method evaluation criteria

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DATA USABILITY REPORT

DATE: March 1, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0188

SAMPLE DATE: January 22 thru 24, 2013

SAMPLES:

Semivolatile Organic Compounds

SWP226_0.5	SWP229_0.5	SWP233_0.5
SWP226_1.0	SWP229_1.0	SWP234_0.5
SWP227_0.5	SWP230_0.5	SWP235_0.5
SWP9227_0.5	SWP231_0.5	SWP236_0.5
SWP228_0.5	SWP232_0.5	SWP236_1.0

Volatile Organic Compounds, Semivolatile Organic Compounds, and Metals

MW001
MW9001
MW002

Classical Nutrient Analyses

MW001
MW9001
SWP002

Volatile Organic Compounds

TB001

OVERVIEW:

This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory*

Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008, USEPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008, and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0188 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0188 were 3 groundwater samples, 15 soil samples and 1 trip blank sample. The soil samples were analyzed for semivolatile compounds. The groundwater samples were analyzed for semivolatile organic compounds, volatile organic compounds, metals, classical nutrient analyses (total alkalinity, sulfate, total organic carbon, and nitrate/nitrite as N) and the trip blank was analyzed for volatile organic compounds.

MAJOR ISSUES

Volatile Organic Compounds

None.

Metals

None.

Semivolatile Organic Compounds

The sample results for 3,3'-dichlorobenzidine and 4-chloroaniline in sample SWP228_0.5 were qualified "UR," non-detect, rejected. The matrix spike associated with the sample had a recovery of less than 10%. The presence or absence of the analyte cannot be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

Classical Nutrient Analyses

None.

MINOR ISSUES

Volatile Organic Compounds

Bromomethane was qualified "UJ," estimated at the reporting limit, because the calibration check standard was greater than the method control limits.

Some sample results for chloroform, bromodichloromethane, and carbon tetrachloride was greater than the method detection limit (MDL) and the minimum reporting level (MRL); therefore, the sample results were qualified "J," estimated.

Metals

No data was qualified based on data validation.

Semivolatile Organic Compounds

Hexachlorobenzene (HCB) was qualified "UJ," estimated at the MRL for one of two deficiencies: the laboratory control spike recovery was greater than the method control limits or the matrix spike recovery was less than the method control limits.

Pentachlorophenol was qualified "J," estimated, in several sample results because the reported results were between the MDL and the MRL.

Some sample results for (3-and/or 4-)methylphenol and 2-methylphenol were qualified "UJ," estimated at the MRL because the matrix spike precision was outside the method control limit.

The matrix spike recovery was greater than the control limit for benzo(b)fluoranthene. The associated sample result was qualified "J," estimated.

Benzaldehyde was qualified "J," estimated because the reported concentration was between the MDL and MRL and the laboratory spike recovery was higher than the control limits.

Unidentified compounds were reported in some samples. The identification was not verified and the sample results are qualified "J" estimated.

Presumptive evidence indicated petroleum product was present in some samples. The results are reported as identified by the laboratory and the identifications were not verified.

Presumptive evidence exists that tentatively identified compounds were detected in several samples. The sample results were reported as tentative identifications with an estimated value and qualified "NJ."

Classical Nutrient Analyses

All samples were received unpreserved with H_2SO_4 to pH<2 for total organic carbon. The samples were marked "P-3" but no additional qualifiers were added.

Trip Blank

No compounds were detected in the trip blank.

Field Duplicate

Field duplicate SWP9227_0.5 was collected for parent sample SWP227_0.5. The calculable relative percent differences (RPDs) are represented below:

Compound	RPD
Anthracene	92.1
Benzo(a)anthracene	78.5
Benzo(a)pyrene	81.1
Benzo(b)fluoranthene	83.3
Benzo(g,h,i)perylene	104.3
Benzo(k)fluoranthene	82.4
Carbazole	81.3
Chrysene	82.4
Dibenz(a,h)anthracene	100.3
Fluoranthene	81.0
Indeno(1,2,3-cd)pyrene	104.3
Naphthalene	98.9
Pentachlorophenol	76.6
Phenanthrene	102.2
Pyrene	85.7
Alkalinity	1.1
Sulfate	0.0
Total Organic Carbon	27.5

The RPDs were greater than the acceptable limit for organics (30%). The samples should not be used as duplicates.

NOTES

The analytical data included for project number 13-0188 are of sufficient quality and are deemed acceptable for their intended use, except those rejected.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

February 15, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0175, Southeastern Wood Preserving
Superfund Remedial

FROM: Sallie Hale
ASB Organic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
Semivolatile organic compounds	EPA 8270D (Soil)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0175, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
001_19	E130312-02	Subsurface Soil	1/8/13 11:48	1/18/13 10:08
001_296	E130312-03	Subsurface Soil	1/10/13 16:26	1/18/13 10:08
001_69	E130312-04	Subsurface Soil	1/8/13 15:09	1/18/13 10:08
9001_69	E130312-05	Subsurface Soil	1/8/13 15:09	1/18/13 10:08
001_300	E130312-06	Subsurface Soil	1/15/13 10:10	1/18/13 10:08
002_12	E130312-07	Subsurface Soil	1/12/13 10:30	1/18/13 10:08
002_67.5	E130312-08	Subsurface Soil	1/12/13 14:12	1/18/13 10:08

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
QL-1	Laboratory Control Spike Recovery less than method control limits
QM-1	Matrix Spike Recovery less than method control limits

ACRONYMS AND ABBREVIATIONS

CAS — Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

ISO — The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.

MDL — Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL — Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC — Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_19 **Lab ID:** E130312-02
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 11:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
92-52-4	1,1-Biphenyl	74000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
90-12-0	1-Methylnaphthalene	160000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
120-83-2	2,4-Dichlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
105-67-9	2,4-Dimethylphenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
51-28-5	2,4-Dinitrophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
121-14-2	2,4-Dinitrotoluene	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
606-20-2	2,6-Dinitrotoluene	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
91-58-7	2-Chloronaphthalene	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
95-57-8	2-Chlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
91-57-6	2-Methylnaphthalene	330000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
95-48-7	2-Methylphenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
88-74-4	2-Nitroaniline	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
88-75-5	2-Nitrophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
99-09-2	3-Nitroaniline	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
106-47-8	4-Chloroaniline	17000	U, J, QL-1	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
100-01-6	4-Nitroaniline	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
100-02-7	4-Nitrophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
83-32-9	Acenaphthene	190000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
208-96-8	Acenaphthylene	2600		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D

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Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_19 **Lab ID:** E130312-02
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 11:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
120-12-7	Anthracene	69000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
1912-24-9	Atrazine	17000	U, J, QL-1	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
100-52-7	Benzaldehyde	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
56-55-3	Benzo(a)anthracene	70000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
50-32-8	Benzo(a)pyrene	19000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
205-99-2	Benzo(b)fluoranthene	28000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	4500		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
207-08-9	Benzo(k)fluoranthene	24000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
85-68-7	Benzyl butyl phthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
105-60-2	Caprolactam	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
86-74-8	Carbazole	48000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
218-01-9	Chrysene	65000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	1800		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
132-64-9	Dibenzofuran	250000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
84-66-2	Diethyl phthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
131-11-3	Dimethyl phthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
84-74-2	Di-n-butylphthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
117-84-0	Di-n-octylphthalate	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
206-44-0	Fluoranthene	360000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
86-73-7	Fluorene	160000		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	1700	U	ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
67-72-1	Hexachloroethane	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	5400		ug/kg dry	1700	1/22/13 10:03	1/30/13 15:42	EPA 8270D

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Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_19 **Lab ID:** E130312-02

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 11:48

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
91-20-3	Naphthalene	810000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
98-95-3	Nitrobenzene	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
87-86-5	Pentachlorophenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
85-01-8	Phenanthrene	700000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
108-95-2	Phenol	17000	U	ug/kg dry	17000	1/22/13 10:03	1/30/13 15:42	EPA 8270D
129-00-0	Pyrene	250000		ug/kg dry	8500	1/22/13 10:03	1/30/13 15:08	EPA 8270D
Tentatively Identified Compounds:								
R4-6507	Dimethylnaphthalene (TIC)	80000	NJ	ug/kg dry		1/22/13 10:03	1/30/13 15:42	EPA 8270D
R4-8000051	Ethylnaphthalene (TIC)	30000	NJ	ug/kg dry		1/22/13 10:03	1/30/13 15:42	EPA 8270D
R4-8000049	Methylbiphenyl (TIC)	30000	NJ	ug/kg dry		1/22/13 10:03	1/30/13 15:42	EPA 8270D
R4-8000026	Methyldibenzofuran (TIC)	30000	NJ	ug/kg dry		1/22/13 10:03	1/30/13 15:42	EPA 8270D

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Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_296 **Lab ID:** E130312-03
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/10/13 16:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
92-52-4	1,1-Biphenyl	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
90-12-0	1-Methylnaphthalene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
120-83-2	2,4-Dichlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
105-67-9	2,4-Dimethylphenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
121-14-2	2,4-Dinitrotoluene	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
606-20-2	2,6-Dinitrotoluene	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
91-58-7	2-Chloronaphthalene	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
95-57-8	2-Chlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
91-57-6	2-Methylnaphthalene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
88-75-5	2-Nitrophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
106-47-8	4-Chloroaniline	410	U, J, QL-1	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
83-32-9	Acenaphthene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
208-96-8	Acenaphthylene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D

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D.A.R.T. Id: 13-0015
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Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_296 **Lab ID:** E130312-03
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/10/13 16:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
120-12-7	Anthracene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
1912-24-9	Atrazine	410	U, J, QL-1	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
56-55-3	Benzo(a)anthracene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
50-32-8	Benzo(a)pyrene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
205-99-2	Benzo(b)fluoranthene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
207-08-9	Benzo(k)fluoranthene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
85-68-7	Benzyl butyl phthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
105-60-2	Caprolactam	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
86-74-8	Carbazole	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
218-01-9	Chrysene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
132-64-9	Dibenzofuran	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
84-66-2	Diethyl phthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
131-11-3	Dimethyl phthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
84-74-2	Di-n-butylphthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
206-44-0	Fluoranthene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
86-73-7	Fluorene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
67-72-1	Hexachloroethane	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_296 **Lab ID:** E130312-03

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/10/13 16:26

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
91-20-3	Naphthalene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
98-95-3	Nitrobenzene	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
85-01-8	Phenanthrene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
108-95-2	Phenol	410	U	ug/kg dry	410	1/22/13 10:03	1/29/13 17:54	EPA 8270D
129-00-0	Pyrene	41	U	ug/kg dry	41	1/22/13 10:03	1/29/13 17:54	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/22/13 10:03	1/29/13 17:54	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_69 **Lab ID:** E130312-04

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
92-52-4	1,1-Biphenyl	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
90-12-0	1-Methylnaphthalene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
120-83-2	2,4-Dichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
105-67-9	2,4-Dimethylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
121-14-2	2,4-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
606-20-2	2,6-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
91-58-7	2-Chloronaphthalene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
95-57-8	2-Chlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
91-57-6	2-Methylnaphthalene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
88-75-5	2-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
106-47-8	4-Chloroaniline	420	U, J, QL-1	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
83-32-9	Acenaphthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
208-96-8	Acenaphthylene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_69 **Lab ID:** E130312-04
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
120-12-7	Anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
1912-24-9	Atrazine	420	U, J, QL-1	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
56-55-3	Benzo(a)anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
50-32-8	Benzo(a)pyrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
205-99-2	Benzo(b)fluoranthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
207-08-9	Benzo(k)fluoranthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
85-68-7	Benzyl butyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
105-60-2	Caprolactam	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
86-74-8	Carbazole	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
218-01-9	Chrysene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
132-64-9	Dibenzofuran	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
84-66-2	Diethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
131-11-3	Dimethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
84-74-2	Di-n-butylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
206-44-0	Fluoranthene	110		ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
86-73-7	Fluorene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
67-72-1	Hexachloroethane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_69 **Lab ID:** E130312-04

Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
91-20-3	Naphthalene	71		ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
98-95-3	Nitrobenzene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
85-01-8	Phenanthrene	180		ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
108-95-2	Phenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:08	EPA 8270D
129-00-0	Pyrene	67		ug/kg dry	42	1/22/13 10:03	1/29/13 15:08	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/22/13 10:03	1/29/13 15:08	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 9001_69 **Lab ID:** E130312-05
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
92-52-4	1,1-Biphenyl	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
90-12-0	1-Methylnaphthalene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
120-83-2	2,4-Dichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
105-67-9	2,4-Dimethylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
121-14-2	2,4-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
606-20-2	2,6-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
91-58-7	2-Chloronaphthalene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
95-57-8	2-Chlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
91-57-6	2-Methylnaphthalene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
88-75-5	2-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
106-47-8	4-Chloroaniline	420	U, J, QL-1	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
83-32-9	Acenaphthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
208-96-8	Acenaphthylene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 9001_69 **Lab ID:** E130312-05
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
120-12-7	Anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
1912-24-9	Atrazine	420	U, J, QL-1	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
56-55-3	Benzo(a)anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
50-32-8	Benzo(a)pyrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
205-99-2	Benzo(b)fluoranthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
207-08-9	Benzo(k)fluoranthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
85-68-7	Benzyl butyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
105-60-2	Caprolactam	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
86-74-8	Carbazole	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
218-01-9	Chrysene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
132-64-9	Dibenzofuran	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
84-66-2	Diethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
131-11-3	Dimethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
84-74-2	Di-n-butylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
206-44-0	Fluoranthene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
86-73-7	Fluorene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
67-72-1	Hexachloroethane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 9001_69 **Lab ID:** E130312-05
Station ID: SWP001 **Matrix:** Subsurface Soil

Date Collected: 1/8/13 15:09

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
91-20-3	Naphthalene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
98-95-3	Nitrobenzene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
85-01-8	Phenanthrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
108-95-2	Phenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 15:41	EPA 8270D
129-00-0	Pyrene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 15:41	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/22/13 10:03	1/29/13 15:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_300 **Lab ID:** E130312-06
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/15/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
92-52-4	1,1-Biphenyl	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
90-12-0	1-Methylnaphthalene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
120-83-2	2,4-Dichlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
105-67-9	2,4-Dimethylphenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
121-14-2	2,4-Dinitrotoluene	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
606-20-2	2,6-Dinitrotoluene	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
91-58-7	2-Chloronaphthalene	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
95-57-8	2-Chlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
91-57-6	2-Methylnaphthalene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
95-48-7	2-Methylphenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
88-75-5	2-Nitrophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
106-47-8	4-Chloroaniline	430	U, J, QL-1	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
83-32-9	Acenaphthene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
208-96-8	Acenaphthylene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D

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D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_300 **Lab ID:** E130312-06
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/15/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
120-12-7	Anthracene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
1912-24-9	Atrazine	430	U, J, QL-1	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
100-52-7	Benzaldehyde	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
56-55-3	Benzo(a)anthracene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
50-32-8	Benzo(a)pyrene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
205-99-2	Benzo(b)fluoranthene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
207-08-9	Benzo(k)fluoranthene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
85-68-7	Benzyl butyl phthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
105-60-2	Caprolactam	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
86-74-8	Carbazole	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
218-01-9	Chrysene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
132-64-9	Dibenzofuran	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
84-66-2	Diethyl phthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
131-11-3	Dimethyl phthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
84-74-2	Di-n-butylphthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
117-84-0	Di-n-octylphthalate	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
206-44-0	Fluoranthene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
86-73-7	Fluorene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
67-72-1	Hexachloroethane	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 001_300 **Lab ID:** E130312-06
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/15/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
91-20-3	Naphthalene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
98-95-3	Nitrobenzene	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
85-01-8	Phenanthrene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
108-95-2	Phenol	430	U	ug/kg dry	430	1/22/13 10:03	1/29/13 16:14	EPA 8270D
129-00-0	Pyrene	43	U	ug/kg dry	43	1/22/13 10:03	1/29/13 16:14	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/22/13 10:03	1/29/13 16:14	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_12 **Lab ID:** E130312-07

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
92-52-4	1,1-Biphenyl	50		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
90-12-0	1-Methylnaphthalene	68		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
120-83-2	2,4-Dichlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
105-67-9	2,4-Dimethylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
51-28-5	2,4-Dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
121-14-2	2,4-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
606-20-2	2,6-Dinitrotoluene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
91-58-7	2-Chloronaphthalene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
95-57-8	2-Chlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
91-57-6	2-Methylnaphthalene	130		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
88-74-4	2-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
88-75-5	2-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
106-47-8	4-Chloroaniline	420	U, J, QL-1	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
83-32-9	Acenaphthene	200		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
208-96-8	Acenaphthylene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_12 **Lab ID:** E130312-07

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
120-12-7	Anthracene	190		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
1912-24-9	Atrazine	420	U, J, QL-1, QM-1	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
56-55-3	Benzo(a)anthracene	190		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
50-32-8	Benzo(a)pyrene	140		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
205-99-2	Benzo(b)fluoranthene	200		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	63		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
207-08-9	Benzo(k)fluoranthene	160		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
85-68-7	Benzyl butyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
105-60-2	Caprolactam	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
86-74-8	Carbazole	98		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
218-01-9	Chrysene	240		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
132-64-9	Dibenzofuran	220		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
84-66-2	Diethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
131-11-3	Dimethyl phthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
84-74-2	Di-n-butylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
206-44-0	Fluoranthene	900		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
86-73-7	Fluorene	270		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	42	U	ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
67-72-1	Hexachloroethane	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_12 **Lab ID:** E130312-07

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
193-39-5	Indeno (1,2,3-cd) pyrene	66		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
78-59-1	Isophorone	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
91-20-3	Naphthalene	140		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
98-95-3	Nitrobenzene	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
85-01-8	Phenanthrene	970		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
108-95-2	Phenol	420	U	ug/kg dry	420	1/22/13 10:03	1/29/13 16:47	EPA 8270D
129-00-0	Pyrene	660		ug/kg dry	42	1/22/13 10:03	1/29/13 16:47	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/22/13 10:03	1/29/13 16:47	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_67.5 **Lab ID:** E130312-08
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 14:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
92-52-4	1,1-Biphenyl	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
90-12-0	1-Methylnaphthalene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
120-83-2	2,4-Dichlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
105-67-9	2,4-Dimethylphenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
51-28-5	2,4-Dinitrophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
121-14-2	2,4-Dinitrotoluene	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
606-20-2	2,6-Dinitrotoluene	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
91-58-7	2-Chloronaphthalene	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
95-57-8	2-Chlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
91-57-6	2-Methylnaphthalene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
95-48-7	2-Methylphenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
88-74-4	2-Nitroaniline	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
88-75-5	2-Nitrophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
99-09-2	3-Nitroaniline	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
106-47-8	4-Chloroaniline	470	U, J, QL-1	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
100-01-6	4-Nitroaniline	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
100-02-7	4-Nitrophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
83-32-9	Acenaphthene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
208-96-8	Acenaphthylene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0175, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_67.5 **Lab ID:** E130312-08
Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 14:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
120-12-7	Anthracene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
1912-24-9	Atrazine	470	U, J, QL-1	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
100-52-7	Benzaldehyde	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
56-55-3	Benzo(a)anthracene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
50-32-8	Benzo(a)pyrene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
205-99-2	Benzo(b)fluoranthene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
207-08-9	Benzo(k)fluoranthene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
85-68-7	Benzyl butyl phthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
105-60-2	Caprolactam	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
86-74-8	Carbazole	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
218-01-9	Chrysene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
132-64-9	Dibenzofuran	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
84-66-2	Diethyl phthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
131-11-3	Dimethyl phthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
84-74-2	Di-n-butylphthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
117-84-0	Di-n-octylphthalate	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
206-44-0	Fluoranthene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
86-73-7	Fluorene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
67-72-1	Hexachloroethane	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D

Semi Volatile Organics

Project: 13-0175, Southeastern Wood Preserving

Sample ID: 002_67.5 **Lab ID:** E130312-08

Station ID: SWP002 **Matrix:** Subsurface Soil

Date Collected: 1/12/13 14:12

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
91-20-3	Naphthalene	160		ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
98-95-3	Nitrobenzene	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
87-86-5	Pentachlorophenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
85-01-8	Phenanthrene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
108-95-2	Phenol	470	U	ug/kg dry	470	1/22/13 10:03	1/29/13 17:21	EPA 8270D
129-00-0	Pyrene	47	U	ug/kg dry	47	1/22/13 10:03	1/29/13 17:21	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	500	U	ug/kg dry	500	1/22/13 10:03	1/29/13 17:21	EPA 8270D

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Blank (1301075-BLK1)				Prepared: 01/22/13 Analyzed: 01/29/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	U	330	ug/kg dry							U
Benzaldehyde	U	330	"							U
Hexachloroethane	U	330	"							U
Bis(2-chloroisopropyl) ether	U	330	"							U
n-Nitroso di-n-Propylamine	U	330	"							U
Acetophenone	U	330	"							U
Nitrobenzene	U	330	"							U
Caprolactam	U	330	"							U
1-Methylnaphthalene	U	33	"							U
2-Methylnaphthalene	U	33	"							U
Naphthalene	U	33	"							U
4-Chloroaniline	U	330	"							U
Bis(2-chloroethoxy)methane	U	330	"							U
Isophorone	U	330	"							U
Hexachlorocyclopentadiene (HCCP)	U	330	"							U
1,1-Biphenyl	U	33	"							U
2-Chloronaphthalene	U	330	"							U
2-Nitroaniline	U	330	"							U
Acenaphthylene	U	33	"							U
Acenaphthene	U	33	"							U
Dimethyl phthalate	U	330	"							U
Dibenzofuran	U	33	"							U
2,4-Dinitrotoluene	U	330	"							U
2,6-Dinitrotoluene	U	330	"							U
3-Nitroaniline	U	330	"							U
4-Chlorophenyl phenyl ether	U	330	"							U
4-Nitroaniline	U	330	"							U
Fluorene	U	33	"							U
Diethyl phthalate	U	330	"							U
n-Nitrosodiphenylamine/Diphenylamine	U	330	"							U
Hexachlorobenzene (HCB)	U	33	"							U
Atrazine	U	330	"							U
4-Bromophenyl phenyl ether	U	330	"							U
Phenanthrene	U	33	"							U
Anthracene	U	33	"							U
Carbazole	U	33	"							U
Di-n-butylphthalate	U	330	"							U
Fluoranthene	U	33	"							U
Pyrene	U	33	"							U

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Blank (1301075-BLK1)				Prepared: 01/22/13 Analyzed: 01/29/13						
Benzyl butyl phthalate	U	330	ug/kg dry							U
Bis(2-ethylhexyl) phthalate	U	330	"							U
Benzo(a)anthracene	U	33	"							U
Chrysene	U	33	"							U
3,3'-Dichlorobenzidine	U	330	"							U
Di-n-octylphthalate	U	330	"							U
Benzo(b)fluoranthene	U	33	"							U
Benzo(k)fluoranthene	U	33	"							U
Benzo(a)pyrene	U	33	"							U
Indeno (1,2,3-cd) pyrene	U	33	"							U
Dibenz(a,h)anthracene	U	33	"							U
Benzo(g,h,i)perylene	U	33	"							U
2-Chlorophenol	U	330	"							U
2-Methylphenol	U	330	"							U
(3-and/or 4-)Methylphenol	U	330	"							U
2-Nitrophenol	U	330	"							U
Phenol	U	330	"							U
2,4-Dimethylphenol	U	330	"							U
2,4-Dichlorophenol	U	330	"							U
2,4,6-Trichlorophenol	U	330	"							U
2,4,5-Trichlorophenol	U	330	"							U
4-Chloro-3-methylphenol	U	330	"							U
2,4-Dinitrophenol	U	330	"							U
2-Methyl-4,6-dinitrophenol	U	330	"							U
Pentachlorophenol	U	330	"							U
4-Nitrophenol	U	330	"							U
2,3,4,6-Tetrachlorophenol	U	330	"							U
Tentatively Identified Compounds	U	300	"							

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
LCS (1301075-BS1)				Prepared: 01/22/13 Analyzed: 01/29/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1552.4	330	ug/kg dry	2001.3		77.6	51.5-99.2			
Benzaldehyde	1727.8	330	"	2001.3		86.3	44.4-101			
Hexachloroethane	1392.3	330	"	2001.3		69.6	51.6-94			
Bis(2-chloroisopropyl) ether	1595.4	330	"	2001.3		79.7	44.2-104			
n-Nitroso di-n-Propylamine	1604.4	330	"	2001.3		80.2	52.8-93.2			
Acetophenone	1671.4	330	"	2001.3		83.5	51.3-98			
Nitrobenzene	1754.5	330	"	2001.3		87.7	56.7-91.3			
Caprolactam	1785.2	330	"	2001.3		89.2	64.8-108			
1-Methylnaphthalene	1583.4	33	"	2001.3		79.1	59.5-96.8			
2-Methylnaphthalene	1772.8	33	"	2001.3		88.6	59.5-96.8			
Naphthalene	1655.8	33	"	2001.3		82.7	57.7-99.7			
4-Chloroaniline	318.21	330	"	2001.3		15.9	22.4-76.5			Q-2, QL-1, J
Bis(2-chloroethoxy)methane	1674.4	330	"	2001.3		83.7	57.1-98.5			
Isophorone	1786.5	330	"	2001.3		89.3	57.3-95.4			
Hexachlorocyclopentadiene (HCCP)	1268.8	330	"	2001.3		63.4	37.9-76.4			
1,1-Biphenyl	1613.1	33	"	2001.3		80.6	64.9-94.8			
2-Chloronaphthalene	1565.0	330	"	2001.3		78.2	66.4-95.5			
2-Nitroaniline	1780.2	330	"	2001.3		89.0	60.9-106			
Acenaphthylene	1775.9	33	"	2001.3		88.7	66.8-98.6			
Acenaphthene	1699.8	33	"	2001.3		84.9	63-97.9			
Dimethyl phthalate	1782.5	330	"	2001.3		89.1	69.2-96.4			
Dibenzofuran	1767.8	33	"	2001.3		88.3	61.4-95			
2,4-Dinitrotoluene	1987.7	330	"	2001.3		99.3	63-106			
2,6-Dinitrotoluene	1905.3	330	"	2001.3		95.2	63.1-106			
3-Nitroaniline	1310.2	330	"	2001.3		65.5	42.2-90.8			
4-Chlorophenyl phenyl ether	1756.8	330	"	2001.3		87.8	66-102			
4-Nitroaniline	2258.8	330	"	2001.3		113	57.5-118			
Fluorene	1825.9	33	"	2001.3		91.2	65.6-103			
Diethyl phthalate	1556.4	330	"	2001.3		77.8	60.5-106			
n-Nitrosodiphenylamine/Diphenylamine	1895.6	330	"	2001.3		94.7	55.6-110			
Hexachlorobenzene (HCB)	1322.5	33	"	2001.3		66.1	53.5-123			
Atrazine	535.69	330	"	2001.3		26.8	35.6-156			QL-1
4-Bromophenyl phenyl ether	1795.2	330	"	2001.3		89.7	52.8-126			
Phenanthrene	1841.2	33	"	2001.3		92.0	56.5-119			
Anthracene	1834.9	33	"	2001.3		91.7	57.4-116			
Carbazole	2183.1	33	"	2001.3		109	69-118			
Di-n-butylphthalate	1919.3	330	"	2001.3		95.9	60.6-122			
Fluoranthene	1847.9	33	"	2001.3		92.3	59.4-119			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
LCS (1301075-BS1)				Prepared: 01/22/13 Analyzed: 01/29/13						
Pyrene	1883.9	33	ug/kg dry	2001.3		94.1	59.6-113			
Benzyl butyl phthalate	2118.7	330	"	2001.3		106	71.3-109			
Bis(2-ethylhexyl) phthalate	2182.5	330	"	2001.3		109	64.9-112			
Benzo(a)anthracene	1883.9	33	"	2001.3		94.1	63.9-111			
Chrysene	1857.6	33	"	2001.3		92.8	62.1-109			
3,3'-Dichlorobenzidine	1028.7	330	"	2001.3		51.4	28.8-87.1			
Di-n-octylphthalate	2205.8	330	"	2001.3		110	47.6-121			
Benzo(b)fluoranthene	2035.0	33	"	2001.3		102	51.3-110			
Benzo(k)fluoranthene	1952.6	33	"	2001.3		97.6	57.5-104			
Benzo(a)pyrene	1914.6	33	"	2001.3		95.7	50-102			
Indeno (1,2,3-cd) pyrene	1994.7	33	"	2001.3		99.7	37.5-118			
Dibenz(a,h)anthracene	2009.3	33	"	2001.3		100	20-153			
Benzo(g,h,i)perylene	1957.3	33	"	2001.3		97.8	10-111			
2-Chlorophenol	1707.5	330	"	2001.3		85.3	55.1-95.8			
2-Methylphenol	1643.4	330	"	2001.3		82.1	44.3-96.3			
(3-and/or 4-)Methylphenol	1706.5	330	"	2001.3		85.3	45.2-102			
2-Nitrophenol	1719.8	330	"	2001.3		85.9	60.7-94.6			
Phenol	1663.4	330	"	2001.3		83.1	54.3-98.5			
2,4-Dimethylphenol	1616.4	330	"	2001.3		80.8	24.5-75.8			QL-2
2,4-Dichlorophenol	1826.2	330	"	2001.3		91.3	64-96.5			
2,4,6-Trichlorophenol	1798.9	330	"	2001.3		89.9	66-103			
2,4,5-Trichlorophenol	1900.3	330	"	2001.3		95.0	59.3-110			
4-Chloro-3-methylphenol	1889.3	330	"	2001.3		94.4	66.8-100			
2,4-Dinitrophenol	1611.7	330	"	3002.0		53.7	12.4-63.8			
2-Methyl-4,6-dinitrophenol	1832.2	330	"	2001.3		91.6	44-114			
Pentachlorophenol	1748.2	330	"	2001.3		87.3	57-115			
4-Nitrophenol	1956.3	330	"	2001.3		97.8	56.3-118			
2,3,4,6-Tetrachlorophenol	1556.4	330	"	2001.3		77.8	68.4-109			

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Matrix Spike (1301075-MS1)	**Source: E130312-07**			Prepared: 01/22/13 Analyzed: 01/29/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1783.9	430	ug/kg dry	2577.3	U	69.2	45.6-94.2			
Benzaldehyde	2020.6	430	"	2577.3	U	78.4	21.1-101			
Hexachloroethane	1534.4	430	"	2577.3	U	59.5	35.8-90.1			
Bis(2-chloroisopropyl) ether	1817.4	430	"	2577.3	U	70.5	35.4-99.7			
n-Nitroso di-n-Propylamine	1776.2	430	"	2577.3	U	68.9	46.9-91.9			
Acetophenone	1920.5	430	"	2577.3	U	74.5	48.1-93.7			
Nitrobenzene	1942.9	430	"	2577.3	U	75.4	51-89.7			
Caprolactam	2123.3	430	"	2577.3	U	82.4	53.6-116			
1-Methylnaphthalene	1934.3	43	"	2577.3	67.811	72.4	59.5-90.9			
2-Methylnaphthalene	2270.2	43	"	2577.3	133.91	82.9	59.5-90.9			
Naphthalene	2091.5	43	"	2577.3	137.77	75.8	55.1-91.2			
4-Chloroaniline	359.11	430	"	2577.3	U	13.9	10-70.6			Q-2, J
Bis(2-chloroethoxy)methane	1910.2	430	"	2577.3	U	74.1	57.5-94.1			
Isophorone	1985.4	430	"	2577.3	U	77.0	53.8-94.7			
Hexachlorocyclopentadiene (HCCP)	1144.8	430	"	2577.3	U	44.4	10-81.2			
1,1-Biphenyl	1927.8	43	"	2577.3	50.215	72.9	57.1-99.7			
2-Chloronaphthalene	1820.9	430	"	2577.3	U	70.6	63.8-92			
2-Nitroaniline	2064.9	430	"	2577.3	U	80.1	20.5-132			
Acenaphthylene	2051.5	43	"	2577.3	U	79.6	60.2-94.7			
Acenaphthene	2267.6	43	"	2577.3	196.14	80.4	63.3-93.5			
Dimethyl phthalate	2069.6	430	"	2577.3	U	80.3	66.6-97			
Dibenzofuran	2411.1	43	"	2577.3	220.60	85.0	58.7-94			
2,4-Dinitrotoluene	2393.9	430	"	2577.3	U	92.9	63.1-105			
2,6-Dinitrotoluene	2276.2	430	"	2577.3	U	88.3	61.1-107			
3-Nitroaniline	1723.4	430	"	2577.3	U	66.9	10-96.9			
4-Chlorophenyl phenyl ether	2008.2	430	"	2577.3	U	77.9	60.2-102			
4-Nitroaniline	2815.7	430	"	2577.3	U	109	21.8-119			
Fluorene	2546.0	43	"	2577.3	268.24	88.4	63.4-99.7			
Diethyl phthalate	1743.1	430	"	2577.3	U	67.6	58.8-105			
n-Nitrosodiphenylamine/Diphenylamine	2191.6	430	"	2577.3	U	85.0	46.3-113			
Hexachlorobenzene (HCB)	1466.1	43	"	2577.3	U	56.9	51.3-118			
Atrazine	762.89	430	"	2577.3	U	29.6	32.8-146			QM-1
4-Bromophenyl phenyl ether	2014.2	430	"	2577.3	U	78.1	51.6-120			
Phenanthrene	3569.2	43	"	2577.3	968.67	101	46.2-120			
Anthracene	2383.6	43	"	2577.3	190.99	85.1	46-110			
Carbazole	2818.7	43	"	2577.3	98.283	106	62-120			
Di-n-butylphthalate	2005.6	430	"	2577.3	U	77.8	49.1-120			
Fluoranthene	3536.5	43	"	2577.3	900.86	102	35.1-128			
Pyrene	3161.1	43	"	2577.3	657.08	97.2	39.6-126			

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Matrix Spike (1301075-MS1)	**Source: E130312-07**			Prepared: 01/22/13 Analyzed: 01/29/13						
Benzyl butyl phthalate	2231.1	430	ug/kg dry	2577.3	U	86.6	64.4-109			
Bis(2-ethylhexyl) phthalate	2357.0	430	"	2577.3	U	91.4	51.4-117			
Benzo(a)anthracene	2444.6	43	"	2577.3	190.13	87.5	49.7-110			
Chrysene	2485.0	43	"	2577.3	236.91	87.2	45.7-111			
3,3'-Dichlorobenzidine	1060.6	430	"	2577.3	U	41.1	10-91.6			
Di-n-octylphthalate	2501.7	430	"	2577.3	U	97.1	50.2-120			
Benzo(b)fluoranthene	2732.4	43	"	2577.3	202.15	98.2	41.1-114			
Benzo(k)fluoranthene	2354.0	43	"	2577.3	163.09	85.0	48.9-103			
Benzo(a)pyrene	2358.2	43	"	2577.3	139.48	86.1	36.7-105			
Indeno (1,2,3-cd) pyrene	2011.2	43	"	2577.3	66.094	75.5	32.5-106			
Dibenz(a,h)anthracene	1940.3	43	"	2577.3	U	75.3	38.7-105			
Benzo(g,h,i)perylene	1841.1	43	"	2577.3	62.661	69.0	10-100			
2-Chlorophenol	1985.0	430	"	2577.3	U	77.0	37.6-102			
2-Methylphenol	1938.6	430	"	2577.3	U	75.2	21.1-108			
(3-and/or 4-)Methylphenol	2033.9	430	"	2577.3	U	78.9	10-120			
2-Nitrophenol	2035.7	430	"	2577.3	U	79.0	36.5-113			
Phenol	1860.8	430	"	2577.3	U	72.2	43.1-99.9			
2,4-Dimethylphenol	2293.0	430	"	2577.3	U	89.0	10-132			
2,4-Dichlorophenol	2208.3	430	"	2577.3	U	85.7	46.1-112			
2,4,6-Trichlorophenol	2158.1	430	"	2577.3	U	83.7	44.2-123			
2,4,5-Trichlorophenol	2332.9	430	"	2577.3	U	90.5	62.4-113			
4-Chloro-3-methylphenol	2219.1	430	"	2577.3	U	86.1	63.9-106			
2,4-Dinitrophenol	3110.4	430	"	3866.0	U	80.5	10-132			
2-Methyl-4,6-dinitrophenol	2339.8	430	"	2577.3	U	90.8	28.8-144			
Pentachlorophenol	2311.4	430	"	2577.3	U	89.7	48.5-134			
4-Nitrophenol	2416.7	430	"	2577.3	U	93.8	57.8-118			
2,3,4,6-Tetrachlorophenol	1963.5	430	"	2577.3	U	76.2	60.9-116			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Matrix Spike Dup (1301075-MSD1)		**Source: E130312-07**		Prepared: 01/22/13 Analyzed: 01/29/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1793.8	420	ug/kg dry	2561.9	U	70.0	45.6-94.2	0.550	25.1	
Benzaldehyde	2060.2	420	"	2561.9	U	80.4	21.1-101	1.94	33.9	
Hexachloroethane	1496.2	420	"	2561.9	U	58.4	35.8-90.1	2.52	29.9	
Bis(2-chloroisopropyl) ether	1794.6	420	"	2561.9	U	70.0	35.4-99.7	1.26	25	
n-Nitroso di-n-Propylamine	1758.3	420	"	2561.9	U	68.6	46.9-91.9	1.01	17.6	
Acetophenone	1903.1	420	"	2561.9	U	74.3	48.1-93.7	0.913	18.7	
Nitrobenzene	1963.3	420	"	2561.9	U	76.6	51-89.7	1.05	20.6	
Caprolactam	2093.5	420	"	2561.9	U	81.7	53.6-116	1.41	28.6	
1-Methylnaphthalene	1856.1	42	"	2561.9	67.811	69.8	59.5-90.9	4.12	14	
2-Methylnaphthalene	2152.4	42	"	2561.9	133.91	78.8	59.5-90.9	5.33	19.1	
Naphthalene	1988.9	42	"	2561.9	137.77	72.3	55.1-91.2	5.03	21.7	
4-Chloroaniline	500.85	420	"	2561.9	U	19.6	10-70.6	33.0	77.2	
Bis(2-chloroethoxy)methane	1911.2	420	"	2561.9	U	74.6	57.5-94.1	0.0505	16.4	
Isophorone	1986.8	420	"	2561.9	U	77.5	53.8-94.7	0.0689	14	
Hexachlorocyclopentadiene (HCCP)	1228.0	420	"	2561.9	U	47.9	10-81.2	7.02	60.1	
1,1-Biphenyl	1876.2	42	"	2561.9	50.215	71.3	57.1-99.7	2.72	18.4	
2-Chloronaphthalene	1789.1	420	"	2561.9	U	69.8	63.8-92	1.76	14.9	
2-Nitroaniline	2088.8	420	"	2561.9	U	81.5	20.5-132	1.15	25.1	
Acenaphthylene	2018.8	42	"	2561.9	U	78.8	60.2-94.7	1.61	23.4	
Acenaphthene	2119.6	42	"	2561.9	196.14	75.1	63.3-93.5	6.75	19.2	
Dimethyl phthalate	2067.0	420	"	2561.9	U	80.7	66.6-97	0.123	15.8	
Dibenzofuran	2242.5	42	"	2561.9	220.60	78.9	58.7-94	7.24	16.4	
2,4-Dinitrotoluene	2376.6	420	"	2561.9	U	92.8	63.1-105	0.725	13.3	
2,6-Dinitrotoluene	2266.0	420	"	2561.9	U	88.4	61.1-107	0.449	16.4	
3-Nitroaniline	1838.6	420	"	2561.9	U	71.8	10-96.9	6.47	36.3	
4-Chlorophenyl phenyl ether	1988.0	420	"	2561.9	U	77.6	60.2-102	1.01	17.3	
4-Nitroaniline	2760.5	420	"	2561.9	U	108	21.8-119	1.98	29.5	
Fluorene	2339.5	42	"	2561.9	268.24	80.8	63.4-99.7	8.45	19.1	
Diethyl phthalate	1708.4	420	"	2561.9	U	66.7	58.8-105	2.01	17.9	
n-Nitrosodiphenylamine/Diphenylamine	2096.5	420	"	2561.9	U	81.8	46.3-113	4.43	25.9	
Hexachlorobenzene (HCB)	1462.0	42	"	2561.9	U	57.1	51.3-118	0.278	19.6	
Atrazine	792.06	420	"	2561.9	U	30.9	32.8-146	3.75	14.9	QM-1
4-Bromophenyl phenyl ether	2014.9	420	"	2561.9	U	78.6	51.6-120	0.0382	17.5	
Phenanthrene	2979.9	42	"	2561.9	968.67	78.5	46.2-120	18.0	19.5	
Anthracene	2238.7	42	"	2561.9	190.99	79.9	46-110	6.27	31.7	
Carbazole	2698.5	42	"	2561.9	98.283	101	62-120	4.36	15.1	
Di-n-butylphthalate	1976.1	420	"	2561.9	U	77.1	49.1-120	1.48	16.2	
Fluoranthene	2952.6	42	"	2561.9	900.86	80.1	35.1-128	18.0	21.9	
Pyrene	2738.7	42	"	2561.9	657.08	81.3	39.6-126	14.3	22.9	

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
Matrix Spike Dup (1301075-MSD1)	**Source: E130312-07**			Prepared: 01/22/13 Analyzed: 01/29/13						
Benzyl butyl phthalate	2217.3	420	ug/kg dry	2561.9	U	86.6	64.4-109	0.619	16.2	
Bis(2-ethylhexyl) phthalate	2363.4	420	"	2561.9	U	92.3	51.4-117	0.271	17	
Benzo(a)anthracene	2304.4	42	"	2561.9	190.13	82.5	49.7-110	5.90	23.5	
Chrysene	2318.1	42	"	2561.9	236.91	81.2	45.7-111	6.95	25.3	
3,3'-Dichlorobenzidine	1182.3	420	"	2561.9	U	46.2	10-91.6	10.9	67.4	
Di-n-octylphthalate	2550.4	420	"	2561.9	U	99.5	50.2-120	1.93	16.8	
Benzo(b)fluoranthene	2718.2	42	"	2561.9	202.15	98.2	41.1-114	0.521	23.7	
Benzo(k)fluoranthene	2288.6	42	"	2561.9	163.09	83.0	48.9-103	2.81	29.8	
Benzo(a)pyrene	2361.7	42	"	2561.9	139.48	86.7	36.7-105	0.144	20.7	
Indeno (1,2,3-cd) pyrene	2033.7	42	"	2561.9	66.094	76.8	32.5-106	1.12	24.5	
Dibenz(a,h)anthracene	1996.6	42	"	2561.9	U	77.9	38.7-105	2.86	21.6	
Benzo(g,h,i)perylene	1885.6	42	"	2561.9	62.661	71.2	10-100	2.39	25.6	
2-Chlorophenol	1968.0	420	"	2561.9	U	76.8	37.6-102	0.860	21.4	
2-Methylphenol	1851.4	420	"	2561.9	U	72.3	21.1-108	4.60	25.4	
(3-and/or 4-)Methylphenol	1920.6	420	"	2561.9	U	75.0	10-120	5.73	30.7	
2-Nitrophenol	2080.3	420	"	2561.9	U	81.2	36.5-113	2.17	21	
Phenol	1849.7	420	"	2561.9	U	72.2	43.1-99.9	0.600	20.4	
2,4-Dimethylphenol	1758.8	420	"	2561.9	U	68.6	10-132	26.4	39.1	
2,4-Dichlorophenol	2182.8	420	"	2561.9	U	85.2	46.1-112	1.17	17.7	
2,4,6-Trichlorophenol	2146.9	420	"	2561.9	U	83.8	44.2-123	0.520	17.2	
2,4,5-Trichlorophenol	2299.3	420	"	2561.9	U	89.8	62.4-113	1.45	13.1	
4-Chloro-3-methylphenol	2196.0	420	"	2561.9	U	85.7	63.9-106	1.05	18.4	
2,4-Dinitrophenol	2995.7	420	"	3842.9	U	78.0	10-132	3.76	52.3	
2-Methyl-4,6-dinitrophenol	2377.5	420	"	2561.9	U	92.8	28.8-144	1.60	24.8	
Pentachlorophenol	2232.7	420	"	2561.9	U	87.1	48.5-134	3.46	19.1	
4-Nitrophenol	2383.9	420	"	2561.9	U	93.0	57.8-118	1.37	20.3	
2,3,4,6-Tetrachlorophenol	1952.2	420	"	2561.9	U	76.2	60.9-116	0.578	17	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
MRL Verification (1301075-PS1)				Prepared: 01/22/13 Analyzed: 01/29/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	225.74	330	ug/kg dry	333.44		67.7	31.5-119			MRL-3, Q-2, J
Benzaldehyde	329.44	330	"	333.44		98.8	24.4-121			MRL-3, Q-2, J
Hexachloroethane	213.74	330	"	333.44		64.1	31.6-114			MRL-3, Q-2, J
Bis(2-chloroisopropyl) ether	229.74	330	"	333.44		68.9	24.2-124			MRL-3, Q-2, J
n-Nitroso di-n-Propylamine	259.42	330	"	333.44		77.8	32.8-113			MRL-3, Q-2, J
Acetophenone	275.09	330	"	333.44		82.5	31.3-118			MRL-3, Q-2, J
Nitrobenzene	259.09	330	"	333.44		77.7	36.7-111			MRL-3, Q-2, J
Caprolactam	249.75	330	"	333.44		74.9	44.8-128			MRL-3, Q-2, J
1-Methylnaphthalene	28.009	33	"	33.344		84.0	39.5-117			MRL-3, Q-2, J
2-Methylnaphthalene	33.344	33	"	33.344		100	39.5-117			MRL-3
Naphthalene	39.346	33	"	33.344		118	37.7-120			MRL-3
4-Chloroaniline	109.70	330	"	333.44		32.9	10-96.5			MRL-3, Q-2, J
Bis(2-chloroethoxy)methane	256.09	330	"	333.44		76.8	37.1-118			MRL-3, Q-2, J
Isophorone	274.09	330	"	333.44		82.2	37.3-115			MRL-3, Q-2, J
Hexachlorocyclopentadiene (HCCP)	185.40	330	"	333.44		55.6	17.9-96.4			MRL-3, Q-2, J
1,1-Biphenyl	30.343	33	"	33.344		91.0	44.9-115			MRL-3, Q-2, J
2-Chloronaphthalene	256.42	330	"	333.44		76.9	46.4-116			MRL-3, Q-2, J
2-Nitroaniline	275.76	330	"	333.44		82.7	40.9-126			MRL-3, Q-2, J
Acenaphthylene	35.679	33	"	33.344		107	46.8-119			MRL-3
Acenaphthene	34.011	33	"	33.344		102	43-118			MRL-3
Dimethyl phthalate	278.76	330	"	333.44		83.6	49.2-116			MRL-3, Q-2, J
Dibenzofuran	32.344	33	"	33.344		97.0	41.4-115			MRL-3, Q-2, J
2,4-Dinitrotoluene	265.42	330	"	333.44		79.6	43-126			MRL-3, Q-2, J
2,6-Dinitrotoluene	257.75	330	"	333.44		77.3	43.1-126			MRL-3, Q-2, J
3-Nitroaniline	209.40	330	"	333.44		62.8	22.2-111			MRL-3, Q-2, J

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
MRL Verification (1301075-PS1)				Prepared: 01/22/13 Analyzed: 01/29/13						
4-Chlorophenyl phenyl ether	252.42	330	ug/kg dry	333.44		75.7	46-122			MRL-3, Q-2, J
4-Nitroaniline	259.09	330	"	333.44		77.7	37.5-138			MRL-3, Q-2, J
Fluorene	35.679	33	"	33.344		107	45.6-123			MRL-3
Diethyl phthalate	247.75	330	"	333.44		74.3	40.5-126			MRL-3, Q-2, J
n-Nitrosodiphenylamine/Diphenylamine	287.10	330	"	333.44		86.1	35.6-130			MRL-3, Q-2, J
Hexachlorobenzene (HCB)	209.07	33	"	333.44		62.7	33.5-143			MRL-3
Atrazine	289.10	330	"	333.44		86.7	15.6-176			MRL-3, Q-2, J
4-Bromophenyl phenyl ether	267.76	330	"	333.44		80.3	32.8-146			MRL-3, Q-2, J
Phenanthrene	38.346	33	"	33.344		115	36.5-139			MRL-3
Anthracene	36.345	33	"	33.344		109	37.4-136			MRL-3
Carbazole	33.011	33	"	33.344		99.0	49-138			MRL-3
Di-n-butylphthalate	340.78	330	"	333.44		102	40.6-142			MRL-3
Fluoranthene	35.012	33	"	33.344		105	39.4-139			MRL-3
Pyrene	35.679	33	"	33.344		107	39.6-133			MRL-3
Benzyl butyl phthalate	326.11	330	"	333.44		97.8	51.3-129			MRL-3, Q-2, J
Bis(2-ethylhexyl) phthalate	321.44	330	"	333.44		96.4	44.9-132			MRL-3, Q-2, J
Benzo(a)anthracene	37.346	33	"	33.344		112	43.9-131			MRL-3
Chrysene	39.013	33	"	33.344		117	42.1-129			MRL-3
3,3'-Dichlorobenzidine	173.06	330	"	333.44		51.9	10-107			MRL-3, Q-2, J
Di-n-octylphthalate	304.10	330	"	333.44		91.2	27.6-141			MRL-3, Q-2, J
Benzo(b)fluoranthene	34.345	33	"	33.344		103	31.3-130			MRL-3
Benzo(k)fluoranthene	37.679	33	"	33.344		113	37.5-124			MRL-3
Benzo(a)pyrene	33.011	33	"	33.344		99.0	30-122			MRL-3
Indeno (1,2,3-cd) pyrene	27.342	33	"	33.344		82.0	17.5-138			MRL-3, Q-2, J
Dibenz(a,h)anthracene	28.343	33	"	33.344		85.0	10-173			MRL-3, Q-2, J
Benzo(g,h,i)perylene	28.343	33	"	33.344		85.0	10-131			MRL-3, Q-2, J
2-Chlorophenol	251.42	330	"	333.44		75.4	35.1-116			MRL-3, Q-2, J
2-Methylphenol	225.41	330	"	333.44		67.6	24.3-116			MRL-3, Q-2, J
(3-and/or 4-)Methylphenol	229.41	330	"	333.44		68.8	25.2-122			MRL-3, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301075 - E 3545A Modified										
MRL Verification (1301075-PS1)				Prepared: 01/22/13 Analyzed: 01/29/13						
2-Nitrophenol	249.42	330	ug/kg dry	333.44		74.8	40.7-115			MRL-3, Q-2, J
Phenol	260.09	330	"	333.44		78.0	34.3-118			MRL-3, Q-2, J
2,4-Dimethylphenol	68.356	330	"	333.44		20.5	10-96			MRL-3, Q-2, J
2,4-Dichlorophenol	260.42	330	"	333.44		78.1	44-116			MRL-3, Q-2, J
2,4,6-Trichlorophenol	259.75	330	"	333.44		77.9	46-123			MRL-3, Q-2, J
2,4,5-Trichlorophenol	269.42	330	"	333.44		80.8	39.3-130			MRL-3, Q-2, J
4-Chloro-3-methylphenol	263.75	330	"	333.44		79.1	46.8-120			MRL-3, Q-2, J
2,4-Dinitrophenol	121.71	330	"	666.89		18.2	10-83.8			MRL-3, Q-2, J
2-Methyl-4,6-dinitrophenol	184.73	330	"	333.44		55.4	24-134			MRL-3, Q-2, J
Pentachlorophenol	231.08	330	"	333.44		69.3	37-135			MRL-3, Q-2, J
4-Nitrophenol	236.08	330	"	333.44		70.8	36.3-138			MRL-3, Q-2, J
2,3,4,6-Tetrachlorophenol	211.74	330	"	333.44		63.5	48.4-129			MRL-3, Q-2, J

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-3	MRL verification for Soil matrix
Q-2	Result greater than MDL but less than MRL.
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits

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DATA USABILITY REPORT

DATE: February 27, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0182

SAMPLE DATE: January 8-12, 2013

SAMPLES:
Dioxins
001_10
002_12
9002_12

OVERVIEW:
This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0182 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0182 were 3 soil samples. The soil samples were analyzed for dioxins.

MAJOR ISSUES

Dioxins

None.

MINOR ISSUES

Dioxins

Some sample concentrations for 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzodioxin, 1,2,3,6,7,8-hexachlorodibenzodioxin, 1,2,3,7,8,9-hexachlorodibenzodioxin, 1,2,3,7,8-pentachlorodibenzodioxin, 1,2,3,7,8-pentachlorodibenzofuran, and 2,3,4,7,8-pentachlorodibenzofuran were lower than the lowest standard on the calibration curve; therefore, the sample results were qualified "J." These sample results should be considered estimated.

Sample results for 2,3,7,8-tetrachlorodibenzofuran were qualified "J," estimated, because the reported concentrations were less than the lowest standard on the calibration curve and the result was not confirmed by a second column analysis.

Some sample results for 1,2,3,4,7,8-hexachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,7,8-pentachlorodibenzodioxin, 2,3,4,7,8-pentachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzodioxin, 1,2,3,7,8,9-hexachlorodibenzodioxin, and 2,3,4,6,7,8-hexachlorodibenzofuran were less than the lowest standard on the calibration curve and had poor chromatography. The affected sample results were qualified "J," and should be considered estimated.

An instrument sensitivity shift was present for 1,2,3,7,8,9-hexachlorodibenzofuran and one sample result was reported at a concentration lower than the lowest standard on the calibration curve. The affected sample result was qualified "J," estimated.

The reported concentration for octachlorodibenzodioxin was greater than the highest standard on the calibration curve in some samples. The sample results were qualified "J," estimated.

Poor chromatography was associated with some sample results for 1,2,3,4,7,8-hexachlorodibenzofuran, 2,3,4,6,7,8-hexachlorodibenzofuran, and 1,2,3,6,7,8-hexachlorodibenzodioxin. These sample results were qualified "J," estimated.

One or more of the individual constituents of TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98), TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98), and TEQ (Mammalian Toxic.

Equiv. Value, WHO TEQ-2005) had estimated concentrations comprising > 10% of the total; therefore, the affected sample results were qualified "J," estimated.

The instrument used was not calibrated for all the constituents for the total concentrations results of heptachlorodibenzodioxin (total), heptachlorodibenzofuran (total), hexachlorodibenzodioxin (total), hexachlorodibenzofuran (total), pentachlorodibenzodioxin (total), pentachlorodibenzofuran (total), tetrachlorodibenzofuran (total), and tetrachlorodibenzodioxin (total). The sample results were qualified "J," estimated, for detected results, and "UJ," estimated at the minimum reporting limit (MRL) for non-detect sample results.

The difference between the columns was greater than the action limit for 2,3,7,8-tetrachlorodibenzodioxin. The affected sample results were marked "CLP13" and were reported as a non-detect.

Some sample results were marked "CLP18" for 2,3,4,6,7,8-hexachlorodibenzofuran because the sample was reported as non-detect at the estimated maximum possible concentration (EMPC).

The internal standard was outside the method control limits and the instrument experienced a sensitivity shift for 1,2,3,7,8,9-hexachlorodibenzofuran. The sample results were qualified "UJ," estimated at the MRL.

Field Duplicate

Field duplicate 9002_12 was collected with parent sample 002_12. The calculable RPDs are represented below:

Compound	RPD
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	119.2
1,2,3,4,6,7,8-Heptachlorodibenzofuran	116.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	109.4
1,2,3,4,7,8-Hexachlorodibenzodioxin	93.9
1,2,3,4,7,8-Hexachlorodibenzofuran	111.1
1,2,3,6,7,8-Hexachlorodibenzodioxin	111.3
1,2,3,6,7,8-Hexachlorodibenzofuran	106.2
1,2,3,7,8,9-Hexachlorodibenzodioxin	100.0
1,2,3,7,8,9-Hexachlorodibenzofuran	97.0
1,2,3,7,8-Pentachlorodibenzodioxin	116.9
2,3,4,6,7,8-Hexachlorodibenzofuran	116.4
2,3,4,7,8-Pentachlorodibenzofuran	113.0
Heptachlorodibenzodioxin (Total)	121.4
Heptachlorodibenzofuran (Total)	115.8
Hexachlorodibenzodioxin (Total)	108.9
Hexachlorodibenzofuran (Total)	112.2

Compound (continued)	RPD
Octachlorodibenzodioxin	124.0
Octachlorodibenzofuran	117.9
Pentachlorodibenzodioxin (Total)	107.7
Pentachlorodibenzofuran (Total)	60.9
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	109.5
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	109.7
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	115.4
Tetrachlorodibenzodioxin (Total)	119.1
Tetrachlorodibenzofuran (Total)	126.7

The analytes with RPDs greater than the acceptable limit for organics (30%) and should not be used as duplicates.

NOTES

The analytical data included for project number 13-0182 are of sufficient quality and are deemed acceptable for their intended use.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

February 23, 2013

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0188, Southeastern Wood Preserving
Superfund Remedial

FROM: Sallie Hale
ASB Organic Chemistry Section Chief

THRU: Gary Bennett, Chief
Analytical Support Branch

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Section 5.2 of the ASB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
Semivolatile organic compounds	EPA 8270 SIM (Water)	ISO
Semivolatile organic compounds	EPA 8270D (Soil)	ISO
Semivolatile organic compounds	EPA 8270D (Water)	ISO

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0188, Southeastern Wood Preserving

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
MW001	E130403-02	Groundwater	1/22/13 12:37	1/24/13 9:50
MW9001	E130403-03	Groundwater	1/22/13 12:37	1/24/13 9:50
MW002	E130403-04	Groundwater	1/22/13 16:04	1/24/13 9:50
SWP226_0.5	E130403-05	Surface Soil	1/23/13 09:45	1/24/13 9:50
SWP226_1.0	E130403-06	Subsurface Soil	1/23/13 09:50	1/24/13 9:50
SWP227_0.5	E130403-07	Surface Soil	1/23/13 09:15	1/24/13 9:50
SWP9227_0.5	E130403-08	Surface Soil	1/23/13 09:15	1/24/13 9:50
SWP228_0.5	E130403-09	Surface Soil	1/23/13 10:25	1/24/13 9:50
SWP229_0.5	E130403-10	Surface Soil	1/23/13 12:05	1/24/13 9:50
SWP229_1.0	E130403-11	Subsurface Soil	1/23/13 12:10	1/24/13 9:50
SWP230_0.5	E130403-12	Surface Soil	1/23/13 13:10	1/24/13 9:50
SWP231_0.5	E130403-13	Surface Soil	1/23/13 13:30	1/24/13 9:50
SWP232_0.5	E130403-14	Surface Soil	1/23/13 14:15	1/24/13 9:50
SWP233_0.5	E130403-15	Surface Soil	1/23/13 14:15	1/24/13 9:50
SWP234_0.5	E130405-01	Surface Soil	1/24/13 10:10	1/25/13 10:08
SWP235_0.5	E130405-02	Surface Soil	1/24/13 10:40	1/25/13 10:08
SWP236_0.5	E130405-03	Surface Soil	1/24/13 11:10	1/25/13 10:08
SWP236_1.0	E130405-04	Surface Soil	1/24/13 11:15	1/25/13 10:08

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QM-6	Matrix Spike Recovery less than 10%
R	The presence or absence of the analyte can not be determined from the data due to severe quality control problems. The data are rejected and considered unusable.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
ISO	The test, if analyzed after June 26, 2012, is accredited under the EPA Region 4 ASB's ISO/IEC 17025 accreditation issued by ANSI-ASQ National Accreditation Board/ACLASS. Refer to certificate and scope of accreditation AT-1691.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 21:17	EPA 8270D
120-82-1	1,2,4-Trichlorobenzene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
90-12-0	1-Methylnaphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
120-83-2	2,4-Dichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
105-67-9	2,4-Dimethylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
121-14-2	2,4-Dinitrotoluene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
606-20-2	2,6-Dinitrotoluene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
91-58-7	2-Chloronaphthalene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
95-57-8	2-Chlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
95-48-7	2-Methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
88-75-5	2-Nitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
106-47-8	4-Chloroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
98-86-2	Acetophenone	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
120-12-7	Anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
1912-24-9	Atrazine	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
100-52-7	Benzaldehyde	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
85-68-7	Benzyl butyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
105-60-2	Caprolactam	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
86-74-8	Carbazole	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
218-01-9	Chrysene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 21:17	EPA 8270D
84-66-2	Diethyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
131-11-3	Dimethyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
84-74-2	Di-n-butylphthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
117-84-0	Di-n-octylphthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
86-73-7	Fluorene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	10	U, J, QL-1	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
87-68-3	Hexachlorobutadiene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW001 **Lab ID:** E130403-02

Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
78-59-1	Isophorone	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
91-20-3	Naphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
98-95-3	Nitrobenzene	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	1/25/13 9:28	2/07/13 21:17	EPA 8270D
85-01-8	Phenanthrene	0.40		ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
108-95-2	Phenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
129-00-0	Pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 21:17	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/25/13 9:28	2/07/13 21:17	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 20:44	EPA 8270D
120-82-1	1,2,4-Trichlorobenzene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
90-12-0	1-Methylnaphthalene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
120-83-2	2,4-Dichlorophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
105-67-9	2,4-Dimethylphenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
51-28-5	2,4-Dinitrophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
121-14-2	2,4-Dinitrotoluene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
606-20-2	2,6-Dinitrotoluene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
91-58-7	2-Chloronaphthalene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
95-57-8	2-Chlorophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
91-57-6	2-Methylnaphthalene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
95-48-7	2-Methylphenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
88-74-4	2-Nitroaniline	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
88-75-5	2-Nitrophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
99-09-2	3-Nitroaniline	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
106-47-8	4-Chloroaniline	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
100-01-6	4-Nitroaniline	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
100-02-7	4-Nitrophenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
83-32-9	Acenaphthene	0.13		ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
98-86-2	Acetophenone	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
120-12-7	Anthracene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
1912-24-9	Atrazine	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
100-52-7	Benzaldehyde	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
56-55-3	Benzo(a)anthracene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
50-32-8	Benzo(a)pyrene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
85-68-7	Benzyl butyl phthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
105-60-2	Caprolactam	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
86-74-8	Carbazole	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
218-01-9	Chrysene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 20:44	EPA 8270D
84-66-2	Diethyl phthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
131-11-3	Dimethyl phthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
84-74-2	Di-n-butylphthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
117-84-0	Di-n-octylphthalate	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
206-44-0	Fluoranthene	0.10		ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
86-73-7	Fluorene	0.12		ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	9.8	U, J, QL-1	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
87-68-3	Hexachlorobutadiene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW9001 **Lab ID:** E130403-03
Station ID: SWP001 **Matrix:** Groundwater

Date Collected: 1/22/13 12:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
78-59-1	Isophorone	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
91-20-3	Naphthalene	0.13		ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
98-95-3	Nitrobenzene	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	1/25/13 9:28	2/07/13 20:44	EPA 8270D
85-01-8	Phenanthrene	0.49		ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
108-95-2	Phenol	9.8	U	ug/L	9.8	1/25/13 9:28	2/07/13 20:44	EPA 8270D
129-00-0	Pyrene	0.098	U	ug/L	0.098	1/25/13 9:28	2/07/13 20:44	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:44	EPA 8270D

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
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Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04
Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
92-52-4	1,1-Biphenyl	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 20:12	EPA 8270D
120-82-1	1,2,4-Trichlorobenzene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
90-12-0	1-Methylnaphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
120-83-2	2,4-Dichlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
105-67-9	2,4-Dimethylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
51-28-5	2,4-Dinitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
121-14-2	2,4-Dinitrotoluene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
606-20-2	2,6-Dinitrotoluene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
91-58-7	2-Chloronaphthalene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
95-57-8	2-Chlorophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
95-48-7	2-Methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
88-74-4	2-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
88-75-5	2-Nitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
99-09-2	3-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
106-47-8	4-Chloroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
100-01-6	4-Nitroaniline	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
100-02-7	4-Nitrophenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04
Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
98-86-2	Acetophenone	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
120-12-7	Anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
1912-24-9	Atrazine	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
100-52-7	Benzaldehyde	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
85-68-7	Benzyl butyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
105-60-2	Caprolactam	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
86-74-8	Carbazole	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
218-01-9	Chrysene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
132-64-9	Dibenzofuran	2.0	U	ug/L	2.0	1/25/13 9:28	2/07/13 20:12	EPA 8270D
84-66-2	Diethyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
131-11-3	Dimethyl phthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
84-74-2	Di-n-butylphthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
117-84-0	Di-n-octylphthalate	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
86-73-7	Fluorene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	10	U, J, QL-1	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
87-68-3	Hexachlorobutadiene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: MW002 **Lab ID:** E130403-04

Station ID: SWP002 **Matrix:** Groundwater

Date Collected: 1/22/13 16:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
78-59-1	Isophorone	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
91-20-3	Naphthalene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
98-95-3	Nitrobenzene	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
87-86-5	Pentachlorophenol	0.20	U	ug/L	0.20	1/25/13 9:28	2/07/13 20:12	EPA 8270D
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
108-95-2	Phenol	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
129-00-0	Pyrene	0.10	U	ug/L	0.10	1/25/13 9:28	2/07/13 20:12	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	10	U	ug/L	10	1/25/13 9:28	2/07/13 20:12	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_0.5 **Lab ID:** E130403-05

Station ID: 093D-19A-263/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
92-52-4	1,1-Biphenyl	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
90-12-0	1-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
120-83-2	2,4-Dichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
105-67-9	2,4-Dimethylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
121-14-2	2,4-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
606-20-2	2,6-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
91-58-7	2-Chloronaphthalene	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
95-57-8	2-Chlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
91-57-6	2-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
95-48-7	2-Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
88-75-5	2-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
106-47-8	4-Chloroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
83-32-9	Acenaphthene	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
208-96-8	Acenaphthylene	85		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_0.5 **Lab ID:** E130403-05

Station ID: 093D-19A-263/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
120-12-7	Anthracene	200		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
1912-24-9	Atrazine	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
100-52-7	Benzaldehyde	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
56-55-3	Benzo(a)anthracene	1300		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
50-32-8	Benzo(a)pyrene	1500		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
205-99-2	Benzo(b)fluoranthene	3700		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	730		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
207-08-9	Benzo(k)fluoranthene	2800		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
85-68-7	Benzyl butyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
105-60-2	Caprolactam	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
86-74-8	Carbazole	230		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
218-01-9	Chrysene	2600		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	230		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
132-64-9	Dibenzofuran	68		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
84-66-2	Diethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
131-11-3	Dimethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
84-74-2	Di-n-butylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
117-84-0	Di-n-octylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
206-44-0	Fluoranthene	2300		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
86-73-7	Fluorene	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	45	U	ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
67-72-1	Hexachloroethane	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	820		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_0.5 **Lab ID:** E130403-05

Station ID: 093D-19A-263/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
91-20-3	Naphthalene	100		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
98-95-3	Nitrobenzene	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
87-86-5	Pentachlorophenol	120	J	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
85-01-8	Phenanthrene	330		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
108-95-2	Phenol	450	U	ug/kg dry	450	1/25/13 15:20	2/06/13 0:29	EPA 8270D
129-00-0	Pyrene	2200		ug/kg dry	45	1/25/13 15:20	2/06/13 0:29	EPA 8270D
Tentatively Identified Compounds:								
R4-6610	Benzo fluorene (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/06/13 0:29	EPA 8270D
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	3000	NJ	ug/kg dry		1/25/13 15:20	2/06/13 0:29	EPA 8270D
R4-6615	Benzonaphthothiophene (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/06/13 0:29	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/06/13 0:29	EPA 8270D

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Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_1.0 **Lab ID:** E130403-06
Station ID: 093D-19A-263/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
92-52-4	1,1-Biphenyl	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
90-12-0	1-Methylnaphthalene	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
120-83-2	2,4-Dichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
105-67-9	2,4-Dimethylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
51-28-5	2,4-Dinitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
121-14-2	2,4-Dinitrotoluene	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
606-20-2	2,6-Dinitrotoluene	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
91-58-7	2-Chloronaphthalene	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
95-57-8	2-Chlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
91-57-6	2-Methylnaphthalene	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
95-48-7	2-Methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
88-75-5	2-Nitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
106-47-8	4-Chloroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
83-32-9	Acenaphthene	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
208-96-8	Acenaphthylene	73		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D

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Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_1.0 **Lab ID:** E130403-06
Station ID: 093D-19A-263/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
120-12-7	Anthracene	200		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
1912-24-9	Atrazine	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
100-52-7	Benzaldehyde	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
56-55-3	Benzo(a)anthracene	1300		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
50-32-8	Benzo(a)pyrene	1600		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
205-99-2	Benzo(b)fluoranthene	3500		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	620		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
207-08-9	Benzo(k)fluoranthene	2700		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
85-68-7	Benzyl butyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
105-60-2	Caprolactam	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
86-74-8	Carbazole	190		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
218-01-9	Chrysene	2400		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	210		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
132-64-9	Dibenzofuran	48		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
84-66-2	Diethyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
131-11-3	Dimethyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
84-74-2	Di-n-butylphthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
117-84-0	Di-n-octylphthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
206-44-0	Fluoranthene	1900		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
86-73-7	Fluorene	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	44	U	ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
67-72-1	Hexachloroethane	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	720		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP226_1.0 **Lab ID:** E130403-06
Station ID: 093D-19A-263/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
91-20-3	Naphthalene	87		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
98-95-3	Nitrobenzene	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
87-86-5	Pentachlorophenol	90	J, Q-2	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
85-01-8	Phenanthrene	250		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
108-95-2	Phenol	440	U	ug/kg dry	440	1/25/13 15:20	2/06/13 1:04	EPA 8270D
129-00-0	Pyrene	2000		ug/kg dry	44	1/25/13 15:20	2/06/13 1:04	EPA 8270D
Tentatively Identified Compounds:								
R4-6610	Benzo fluorene (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:04	EPA 8270D
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	2000	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:04	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:04	EPA 8270D
R4-6501	Unidentified Compounds	700	J	ug/kg dry		1/25/13 15:20	2/06/13 1:04	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP227_0.5 **Lab ID:** E130403-07
Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
92-52-4	1,1-Biphenyl	41	U	ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
90-12-0	1-Methylnaphthalene	41	U	ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
120-83-2	2,4-Dichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
105-67-9	2,4-Dimethylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
121-14-2	2,4-Dinitrotoluene	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
606-20-2	2,6-Dinitrotoluene	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
91-58-7	2-Chloronaphthalene	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
95-57-8	2-Chlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
91-57-6	2-Methylnaphthalene	87		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
88-75-5	2-Nitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
83-32-9	Acenaphthene	41	U	ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
208-96-8	Acenaphthylene	94		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP227_0.5 **Lab ID:** E130403-07
Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
120-12-7	Anthracene	230		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
1912-24-9	Atrazine	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
56-55-3	Benzo(a)anthracene	1100		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
50-32-8	Benzo(a)pyrene	1300		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
205-99-2	Benzo(b)fluoranthene	3400		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	890		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
207-08-9	Benzo(k)fluoranthene	2400		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
85-68-7	Benzyl butyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
105-60-2	Caprolactam	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
86-74-8	Carbazole	230		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
218-01-9	Chrysene	2400		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	220		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
132-64-9	Dibenzofuran	93		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
84-66-2	Diethyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
131-11-3	Dimethyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
84-74-2	Di-n-butylphthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
206-44-0	Fluoranthene	1700		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
86-73-7	Fluorene	42		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	41	U	ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
67-72-1	Hexachloroethane	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	890		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP227_0.5 **Lab ID:** E130403-07

Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
91-20-3	Naphthalene	130		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
98-95-3	Nitrobenzene	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
87-86-5	Pentachlorophenol	140	J, Q-2	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
85-01-8	Phenanthrene	340		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
108-95-2	Phenol	410	U	ug/kg dry	410	1/25/13 15:20	2/06/13 1:38	EPA 8270D
129-00-0	Pyrene	1800		ug/kg dry	41	1/25/13 15:20	2/06/13 1:38	EPA 8270D
Tentatively Identified Compounds:								
R4-6609	Benzanthracenone (TIC)	900	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6610	Benzo fluorene (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	3000	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6615	Benzonaphthothiophene (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	800	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6600	Hexadecenoic acid (TIC)	800	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D
R4-6534	Octadecenoic Acid (TIC)	400	NJ	ug/kg dry		1/25/13 15:20	2/06/13 1:38	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP9227_0.5 **Lab ID:** E130403-08

Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
92-52-4	1,1-Biphenyl	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
90-12-0	1-Methylnaphthalene	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
120-83-2	2,4-Dichlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
105-67-9	2,4-Dimethylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
51-28-5	2,4-Dinitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
121-14-2	2,4-Dinitrotoluene	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
606-20-2	2,6-Dinitrotoluene	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
91-58-7	2-Chloronaphthalene	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
95-57-8	2-Chlorophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
91-57-6	2-Methylnaphthalene	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
88-74-4	2-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
88-75-5	2-Nitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
83-32-9	Acenaphthene	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
208-96-8	Acenaphthylene	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP9227_0.5 **Lab ID:** E130403-08

Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
120-12-7	Anthracene	85		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
1912-24-9	Atrazine	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
56-55-3	Benzo(a)anthracene	480		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
50-32-8	Benzo(a)pyrene	550		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
205-99-2	Benzo(b)fluoranthene	1400		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	280		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
207-08-9	Benzo(k)fluoranthene	1000		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
85-68-7	Benzyl butyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
105-60-2	Caprolactam	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
86-74-8	Carbazole	97		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
218-01-9	Chrysene	1000		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	73		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
132-64-9	Dibenzofuran	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
84-66-2	Diethyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
131-11-3	Dimethyl phthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
84-74-2	Di-n-butylphthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
206-44-0	Fluoranthene	720		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
86-73-7	Fluorene	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	41	U	ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
67-72-1	Hexachloroethane	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	280		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP9227_0.5 **Lab ID:** E130403-08

Station ID: 093D-19A-262/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
91-20-3	Naphthalene	44		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
98-95-3	Nitrobenzene	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
87-86-5	Pentachlorophenol	58	J, Q-2	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
85-01-8	Phenanthrene	110		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
108-95-2	Phenol	410	U	ug/kg dry	410	1/25/13 15:20	2/05/13 22:10	EPA 8270D
129-00-0	Pyrene	720		ug/kg dry	41	1/25/13 15:20	2/05/13 22:10	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:10	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	1000	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:10	EPA 8270D
R4-6600	Hexadecenoic acid (TIC)	900	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:10	EPA 8270D
R4-6534	Octadecenoic Acid (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:10	EPA 8270D

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP228_0.5 **Lab ID:** E130403-09

Station ID: 093D-20B-236/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	460	U, J, QM-3	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
92-52-4	1,1-Biphenyl	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
90-12-0	1-Methylnaphthalene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
120-83-2	2,4-Dichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
105-67-9	2,4-Dimethylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
121-14-2	2,4-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
606-20-2	2,6-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
91-58-7	2-Chloronaphthalene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
95-57-8	2-Chlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
91-57-6	2-Methylnaphthalene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
95-48-7	2-Methylphenol	460	U, J, QM-3	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
88-75-5	2-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	460	U, R, QM-6	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
106-47-8	4-Chloroaniline	460	U, R, QM-6	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
83-32-9	Acenaphthene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
208-96-8	Acenaphthylene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP228_0.5 **Lab ID:** E130403-09
Station ID: 093D-20B-236/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
120-12-7	Anthracene	75		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
1912-24-9	Atrazine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
100-52-7	Benzaldehyde	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
56-55-3	Benzo(a)anthracene	430		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
50-32-8	Benzo(a)pyrene	490		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
205-99-2	Benzo(b)fluoranthene	1100	J, QM-2	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	210		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
207-08-9	Benzo(k)fluoranthene	820		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
85-68-7	Benzyl butyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
105-60-2	Caprolactam	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
86-74-8	Carbazole	98		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
218-01-9	Chrysene	900		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	81		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
132-64-9	Dibenzofuran	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
84-66-2	Diethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
131-11-3	Dimethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
84-74-2	Di-n-butylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
117-84-0	Di-n-octylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
206-44-0	Fluoranthene	790		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
86-73-7	Fluorene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	46	U, J, QM-1	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
67-72-1	Hexachloroethane	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	240		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP228_0.5 **Lab ID:** E130403-09

Station ID: 093D-20B-236/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
91-20-3	Naphthalene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
98-95-3	Nitrobenzene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
87-86-5	Pentachlorophenol	67	J, Q-2	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
85-01-8	Phenanthrene	95		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
108-95-2	Phenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 21:35	EPA 8270D
129-00-0	Pyrene	770		ug/kg dry	46	1/25/13 15:20	2/05/13 21:35	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 21:35	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	1000	NJ	ug/kg dry		1/25/13 15:20	2/05/13 21:35	EPA 8270D
R4-6534	Octadecenoic Acid (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 21:35	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_0.5 **Lab ID:** E130403-10

Station ID: 093D-20B-226/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
92-52-4	1,1-Biphenyl	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
90-12-0	1-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
120-83-2	2,4-Dichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
105-67-9	2,4-Dimethylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
121-14-2	2,4-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
606-20-2	2,6-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
91-58-7	2-Chloronaphthalene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
95-57-8	2-Chlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
91-57-6	2-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
95-48-7	2-Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
88-75-5	2-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
106-47-8	4-Chloroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
83-32-9	Acenaphthene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
208-96-8	Acenaphthylene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_0.5 **Lab ID:** E130403-10

Station ID: 093D-20B-226/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
120-12-7	Anthracene	47		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
1912-24-9	Atrazine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
100-52-7	Benzaldehyde	58	J, Q-2, QL-2	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
56-55-3	Benzo(a)anthracene	250		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
50-32-8	Benzo(a)pyrene	410		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
205-99-2	Benzo(b)fluoranthene	880		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
207-08-9	Benzo(k)fluoranthene	640		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
85-68-7	Benzyl butyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
105-60-2	Caprolactam	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
86-74-8	Carbazole	46		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
218-01-9	Chrysene	600		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	68		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
132-64-9	Dibenzofuran	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
84-66-2	Diethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
131-11-3	Dimethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
84-74-2	Di-n-butylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
117-84-0	Di-n-octylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
206-44-0	Fluoranthene	540		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
86-73-7	Fluorene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
67-72-1	Hexachloroethane	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	230		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_0.5 **Lab ID:** E130403-10

Station ID: 093D-20B-226/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
91-20-3	Naphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
98-95-3	Nitrobenzene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
87-86-5	Pentachlorophenol	73	J, Q-2	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
85-01-8	Phenanthrene	130		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
108-95-2	Phenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 22:44	EPA 8270D
129-00-0	Pyrene	560		ug/kg dry	45	1/25/13 15:20	2/05/13 22:44	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:44	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/05/13 22:44	EPA 8270D
R4-6501	Unidentified Compounds	600	J	ug/kg dry		1/25/13 15:20	2/05/13 22:44	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_1.0 **Lab ID:** E130403-11
Station ID: 093D-20B-226/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
92-52-4	1,1-Biphenyl	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
90-12-0	1-Methylnaphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
120-83-2	2,4-Dichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
105-67-9	2,4-Dimethylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
121-14-2	2,4-Dinitrotoluene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
606-20-2	2,6-Dinitrotoluene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
91-58-7	2-Chloronaphthalene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
95-57-8	2-Chlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
91-57-6	2-Methylnaphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
95-48-7	2-Methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
88-75-5	2-Nitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
106-47-8	4-Chloroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
83-32-9	Acenaphthene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
208-96-8	Acenaphthylene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_1.0 **Lab ID:** E130403-11
Station ID: 093D-20B-226/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
120-12-7	Anthracene	57		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
1912-24-9	Atrazine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
100-52-7	Benzaldehyde	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
56-55-3	Benzo(a)anthracene	260		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
50-32-8	Benzo(a)pyrene	470		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
205-99-2	Benzo(b)fluoranthene	1000		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
207-08-9	Benzo(k)fluoranthene	700		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
85-68-7	Benzyl butyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
105-60-2	Caprolactam	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
86-74-8	Carbazole	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
218-01-9	Chrysene	600		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	56		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
132-64-9	Dibenzofuran	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
84-66-2	Diethyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
131-11-3	Dimethyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
84-74-2	Di-n-butylphthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
117-84-0	Di-n-octylphthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
206-44-0	Fluoranthene	460		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
86-73-7	Fluorene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
67-72-1	Hexachloroethane	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	230		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP229_1.0 **Lab ID:** E130403-11

Station ID: 093D-20B-226/00.00 **Matrix:** Subsurface Soil

Date Collected: 1/23/13 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
91-20-3	Naphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
98-95-3	Nitrobenzene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
87-86-5	Pentachlorophenol	83	J, Q-2	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
85-01-8	Phenanthrene	110		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
108-95-2	Phenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 23:19	EPA 8270D
129-00-0	Pyrene	560		ug/kg dry	43	1/25/13 15:20	2/05/13 23:19	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:19	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP230_0.5 **Lab ID:** E130403-12

Station ID: 093D-19A-265/02.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
92-52-4	1,1-Biphenyl	46	U	ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
90-12-0	1-Methylnaphthalene	46	U	ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
120-83-2	2,4-Dichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
105-67-9	2,4-Dimethylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
121-14-2	2,4-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
606-20-2	2,6-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
91-58-7	2-Chloronaphthalene	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
95-57-8	2-Chlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
91-57-6	2-Methylnaphthalene	53		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
95-48-7	2-Methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
88-75-5	2-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
106-47-8	4-Chloroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
83-32-9	Acenaphthene	46	U	ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
208-96-8	Acenaphthylene	94		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP230_0.5 **Lab ID:** E130403-12

Station ID: 093D-19A-265/02.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
120-12-7	Anthracene	310		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
1912-24-9	Atrazine	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
100-52-7	Benzaldehyde	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
56-55-3	Benzo(a)anthracene	1800		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
50-32-8	Benzo(a)pyrene	1800		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
205-99-2	Benzo(b)fluoranthene	4800		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	730		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
207-08-9	Benzo(k)fluoranthene	3500		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
85-68-7	Benzyl butyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
105-60-2	Caprolactam	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
86-74-8	Carbazole	300		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
218-01-9	Chrysene	3700		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	250		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
132-64-9	Dibenzofuran	83		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
84-66-2	Diethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
131-11-3	Dimethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
84-74-2	Di-n-butylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
117-84-0	Di-n-octylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
206-44-0	Fluoranthene	3200		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
86-73-7	Fluorene	46	U	ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	46	U	ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
67-72-1	Hexachloroethane	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	850		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP230_0.5 **Lab ID:** E130403-12

Station ID: 093D-19A-265/02.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
91-20-3	Naphthalene	130		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
98-95-3	Nitrobenzene	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
87-86-5	Pentachlorophenol	180	J, Q-2	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
85-01-8	Phenanthrene	460		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
108-95-2	Phenol	460	U	ug/kg dry	460	1/25/13 15:20	2/06/13 2:48	EPA 8270D
129-00-0	Pyrene	3400		ug/kg dry	46	1/25/13 15:20	2/06/13 2:48	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	3000	NJ	ug/kg dry		1/25/13 15:20	2/06/13 2:48	EPA 8270D
R4-8000614	Cyclopentaphenanthrenone (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/06/13 2:48	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	800	NJ	ug/kg dry		1/25/13 15:20	2/06/13 2:48	EPA 8270D
R4-6545	Octadecenoic acid, methyl ester (TIC)	1000	NJ	ug/kg dry		1/25/13 15:20	2/06/13 2:48	EPA 8270D
R4-6501	Unidentified Compounds	1000	J	ug/kg dry		1/25/13 15:20	2/06/13 2:48	EPA 8270D

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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP231_0.5 **Lab ID:** E130403-13

Station ID: 093D-19A-249/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
92-52-4	1,1-Biphenyl	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
90-12-0	1-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
120-83-2	2,4-Dichlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
105-67-9	2,4-Dimethylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
51-28-5	2,4-Dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
121-14-2	2,4-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
606-20-2	2,6-Dinitrotoluene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
91-58-7	2-Chloronaphthalene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
95-57-8	2-Chlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
91-57-6	2-Methylnaphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
95-48-7	2-Methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
88-74-4	2-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
88-75-5	2-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
99-09-2	3-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
106-47-8	4-Chloroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
100-01-6	4-Nitroaniline	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
100-02-7	4-Nitrophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
83-32-9	Acenaphthene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
208-96-8	Acenaphthylene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP231_0.5 **Lab ID:** E130403-13

Station ID: 093D-19A-249/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
120-12-7	Anthracene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
1912-24-9	Atrazine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
100-52-7	Benzaldehyde	250	J, Q-2, QL-2	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
56-55-3	Benzo(a)anthracene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
50-32-8	Benzo(a)pyrene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
205-99-2	Benzo(b)fluoranthene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
207-08-9	Benzo(k)fluoranthene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
85-68-7	Benzyl butyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
105-60-2	Caprolactam	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
86-74-8	Carbazole	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
218-01-9	Chrysene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
132-64-9	Dibenzofuran	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
84-66-2	Diethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
131-11-3	Dimethyl phthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
84-74-2	Di-n-butylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
117-84-0	Di-n-octylphthalate	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
206-44-0	Fluoranthene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
86-73-7	Fluorene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
67-72-1	Hexachloroethane	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP231_0.5 **Lab ID:** E130403-13

Station ID: 093D-19A-249/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
91-20-3	Naphthalene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
98-95-3	Nitrobenzene	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
87-86-5	Pentachlorophenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
85-01-8	Phenanthrene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
108-95-2	Phenol	450	U	ug/kg dry	450	1/25/13 15:20	2/05/13 20:26	EPA 8270D
129-00-0	Pyrene	45	U	ug/kg dry	45	1/25/13 15:20	2/05/13 20:26	EPA 8270D
Tentatively Identified Compounds:								
R4-6510	Hexadecanoic acid (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 20:26	EPA 8270D
R4-6500	Petroleum Product:		N			15:20 15:20	2/05/13 20:26	EPA 8270D
R4-6521	Sitosterol (TIC)	800	NJ	ug/kg dry		1/25/13 15:20	2/05/13 20:26	EPA 8270D

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Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP232_0.5 **Lab ID:** E130403-14

Station ID: 093D-19A-242/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
92-52-4	1,1-Biphenyl	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
90-12-0	1-Methylnaphthalene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
120-83-2	2,4-Dichlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
105-67-9	2,4-Dimethylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
51-28-5	2,4-Dinitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
121-14-2	2,4-Dinitrotoluene	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
606-20-2	2,6-Dinitrotoluene	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
91-58-7	2-Chloronaphthalene	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
95-57-8	2-Chlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
91-57-6	2-Methylnaphthalene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
95-48-7	2-Methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
88-74-4	2-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
88-75-5	2-Nitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
99-09-2	3-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
106-47-8	4-Chloroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
100-01-6	4-Nitroaniline	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
100-02-7	4-Nitrophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
83-32-9	Acenaphthene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
208-96-8	Acenaphthylene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D

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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP232_0.5 **Lab ID:** E130403-14

Station ID: 093D-19A-242/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
120-12-7	Anthracene	79		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
1912-24-9	Atrazine	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
100-52-7	Benzaldehyde	52	J, Q-2, QL-2	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
56-55-3	Benzo(a)anthracene	170		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
50-32-8	Benzo(a)pyrene	180		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
205-99-2	Benzo(b)fluoranthene	200		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	81		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
207-08-9	Benzo(k)fluoranthene	160		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
85-68-7	Benzyl butyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
105-60-2	Caprolactam	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
86-74-8	Carbazole	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
218-01-9	Chrysene	200		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
132-64-9	Dibenzofuran	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
84-66-2	Diethyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
131-11-3	Dimethyl phthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
84-74-2	Di-n-butylphthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
117-84-0	Di-n-octylphthalate	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
206-44-0	Fluoranthene	440		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
86-73-7	Fluorene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
67-72-1	Hexachloroethane	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	81		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP232_0.5 **Lab ID:** E130403-14

Station ID: 093D-19A-242/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
91-20-3	Naphthalene	44	U	ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
98-95-3	Nitrobenzene	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
87-86-5	Pentachlorophenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
85-01-8	Phenanthrene	360		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
108-95-2	Phenol	440	U	ug/kg dry	440	1/25/13 15:20	2/05/13 21:01	EPA 8270D
129-00-0	Pyrene	360		ug/kg dry	44	1/25/13 15:20	2/05/13 21:01	EPA 8270D
Tentatively Identified Compounds:								
R4-6622	Hexanedioic acid, bis(ethylhexyl) ester (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/05/13 21:01	EPA 8270D
R4-6500	Petroleum Product:		N			15:20 15:20	2/05/13 21:01	EPA 8270D
R4-6521	Sitosterol (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 21:01	EPA 8270D
R4-6501	Unidentified Compounds	700	J	ug/kg dry		1/25/13 15:20	2/05/13 21:01	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP233_0.5 **Lab ID:** E130403-15
Station ID: 093D-19A-253/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
92-52-4	1,1-Biphenyl	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
90-12-0	1-Methylnaphthalene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
120-83-2	2,4-Dichlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
105-67-9	2,4-Dimethylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
51-28-5	2,4-Dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
121-14-2	2,4-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
606-20-2	2,6-Dinitrotoluene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
91-58-7	2-Chloronaphthalene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
95-57-8	2-Chlorophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
91-57-6	2-Methylnaphthalene	53		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
95-48-7	2-Methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
88-74-4	2-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
88-75-5	2-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
99-09-2	3-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
106-47-8	4-Chloroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
100-01-6	4-Nitroaniline	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
100-02-7	4-Nitrophenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
83-32-9	Acenaphthene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
208-96-8	Acenaphthylene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP233_0.5 **Lab ID:** E130403-15

Station ID: 093D-19A-253/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
120-12-7	Anthracene	110		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
1912-24-9	Atrazine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
100-52-7	Benzaldehyde	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
56-55-3	Benzo(a)anthracene	400		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
50-32-8	Benzo(a)pyrene	550		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
205-99-2	Benzo(b)fluoranthene	1300		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	250		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
207-08-9	Benzo(k)fluoranthene	970		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
85-68-7	Benzyl butyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
105-60-2	Caprolactam	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
86-74-8	Carbazole	120		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
218-01-9	Chrysene	910		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	91		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
132-64-9	Dibenzofuran	69		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
84-66-2	Diethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
131-11-3	Dimethyl phthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
84-74-2	Di-n-butylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
117-84-0	Di-n-octylphthalate	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
206-44-0	Fluoranthene	650		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
86-73-7	Fluorene	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	46	U	ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
67-72-1	Hexachloroethane	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	290		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP233_0.5 **Lab ID:** E130403-15

Station ID: 093D-19A-253/00.00 **Matrix:** Surface Soil

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
91-20-3	Naphthalene	160		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
98-95-3	Nitrobenzene	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
87-86-5	Pentachlorophenol	120	J	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
85-01-8	Phenanthrene	220		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
108-95-2	Phenol	460	U	ug/kg dry	460	1/25/13 15:20	2/05/13 23:54	EPA 8270D
129-00-0	Pyrene	680		ug/kg dry	46	1/25/13 15:20	2/05/13 23:54	EPA 8270D
Tentatively Identified Compounds:								
R4-6609	Benzanthracenone (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D
R4-8000959	Benzofluorene (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D
R4-6510	Hexadecanoic acid (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D
R4-8001150	Methylchrysene (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D
R4-6500	Petroleum Product:		N			15:20 15:20	2/05/13 23:54	EPA 8270D
R4-6520	Pinene (TIC)	500	NJ	ug/kg dry		1/25/13 15:20	2/05/13 23:54	EPA 8270D

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D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP234_0.5 **Lab ID:** E130405-01

Station ID: 093D-19A-251/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
92-52-4	1,1-Biphenyl	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
90-12-0	1-Methylnaphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
120-83-2	2,4-Dichlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
105-67-9	2,4-Dimethylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
51-28-5	2,4-Dinitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
121-14-2	2,4-Dinitrotoluene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
606-20-2	2,6-Dinitrotoluene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
91-58-7	2-Chloronaphthalene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
95-57-8	2-Chlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
91-57-6	2-Methylnaphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
95-48-7	2-Methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
88-74-4	2-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
88-75-5	2-Nitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
106-47-8	4-Chloroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
83-32-9	Acenaphthene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
208-96-8	Acenaphthylene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP234_0.5 **Lab ID:** E130405-01

Station ID: 093D-19A-251/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
120-12-7	Anthracene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
1912-24-9	Atrazine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
100-52-7	Benzaldehyde	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
56-55-3	Benzo(a)anthracene	46		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
50-32-8	Benzo(a)pyrene	62		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
205-99-2	Benzo(b)fluoranthene	120		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
207-08-9	Benzo(k)fluoranthene	91		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
85-68-7	Benzyl butyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
105-60-2	Caprolactam	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
86-74-8	Carbazole	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
218-01-9	Chrysene	96		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
132-64-9	Dibenzofuran	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
84-66-2	Diethyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
131-11-3	Dimethyl phthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
84-74-2	Di-n-butylphthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
117-84-0	Di-n-octylphthalate	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
206-44-0	Fluoranthene	88		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
86-73-7	Fluorene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
67-72-1	Hexachloroethane	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP234_0.5 **Lab ID:** E130405-01

Station ID: 093D-19A-251/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
91-20-3	Naphthalene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
98-95-3	Nitrobenzene	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
85-01-8	Phenanthrene	43	U	ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
108-95-2	Phenol	430	U	ug/kg dry	430	1/25/13 15:20	2/05/13 18:41	EPA 8270D
129-00-0	Pyrene	72		ug/kg dry	43	1/25/13 15:20	2/05/13 18:41	EPA 8270D
Tentatively Identified Compounds:								
R4-6545	Octadecenoic acid, methyl ester (TIC)	600	NJ	ug/kg dry		1/25/13 15:20	2/05/13 18:41	EPA 8270D
R4-6501	Unidentified Compounds	700	J	ug/kg dry		1/25/13 15:20	2/05/13 18:41	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP235_0.5 **Lab ID:** E130405-02

Station ID: 093D-19A-255/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
92-52-4	1,1-Biphenyl	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
90-12-0	1-Methylnaphthalene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
120-83-2	2,4-Dichlorophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
105-67-9	2,4-Dimethylphenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
51-28-5	2,4-Dinitrophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
121-14-2	2,4-Dinitrotoluene	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
606-20-2	2,6-Dinitrotoluene	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
91-58-7	2-Chloronaphthalene	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
95-57-8	2-Chlorophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
91-57-6	2-Methylnaphthalene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
95-48-7	2-Methylphenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
88-74-4	2-Nitroaniline	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
88-75-5	2-Nitrophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
99-09-2	3-Nitroaniline	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
106-47-8	4-Chloroaniline	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
100-01-6	4-Nitroaniline	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
100-02-7	4-Nitrophenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
83-32-9	Acenaphthene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
208-96-8	Acenaphthylene	180		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP235_0.5 **Lab ID:** E130405-02

Station ID: 093D-19A-255/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
120-12-7	Anthracene	700		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
1912-24-9	Atrazine	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
100-52-7	Benzaldehyde	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
56-55-3	Benzo(a)anthracene	4500		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
50-32-8	Benzo(a)pyrene	3800		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
205-99-2	Benzo(b)fluoranthene	10000		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
207-08-9	Benzo(k)fluoranthene	6300		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
85-68-7	Benzyl butyl phthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
105-60-2	Caprolactam	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
86-74-8	Carbazole	730		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
218-01-9	Chrysene	8200		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
132-64-9	Dibenzofuran	120		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
84-66-2	Diethyl phthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
131-11-3	Dimethyl phthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
84-74-2	Di-n-butylphthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
117-84-0	Di-n-octylphthalate	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
206-44-0	Fluoranthene	8800		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
86-73-7	Fluorene	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	92	U	ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
67-72-1	Hexachloroethane	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	1700		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP235_0.5 **Lab ID:** E130405-02

Station ID: 093D-19A-255/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
91-20-3	Naphthalene	190		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
98-95-3	Nitrobenzene	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
87-86-5	Pentachlorophenol	500	J, Q-2	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
85-01-8	Phenanthrene	890		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
108-95-2	Phenol	920	U	ug/kg dry	920	1/25/13 15:20	2/07/13 10:46	EPA 8270D
129-00-0	Pyrene	6800		ug/kg dry	92	1/25/13 15:20	2/07/13 10:46	EPA 8270D
Tentatively Identified Compounds:								
R4-6502	Benzofluoranthene (not b and/or k) (TIC)	5000	NJ	ug/kg dry		1/25/13 15:20	2/07/13 10:46	EPA 8270D
R4-6500	Petroleum Product:		N			15:20 15:20	2/07/13 10:46	EPA 8270D
R4-6501	Unidentified Compounds	2000	J	ug/kg dry		1/25/13 15:20	2/07/13 10:46	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_0.5 **Lab ID:** E130405-03

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
92-52-4	1,1-Biphenyl	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
90-12-0	1-Methylnaphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
120-83-2	2,4-Dichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
105-67-9	2,4-Dimethylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
121-14-2	2,4-Dinitrotoluene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
606-20-2	2,6-Dinitrotoluene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
91-58-7	2-Chloronaphthalene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
95-57-8	2-Chlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
91-57-6	2-Methylnaphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
88-75-5	2-Nitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
83-32-9	Acenaphthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
208-96-8	Acenaphthylene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_0.5 **Lab ID:** E130405-03

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
120-12-7	Anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
1912-24-9	Atrazine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
56-55-3	Benzo(a)anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
50-32-8	Benzo(a)pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
205-99-2	Benzo(b)fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
207-08-9	Benzo(k)fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
85-68-7	Benzyl butyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
105-60-2	Caprolactam	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
86-74-8	Carbazole	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
218-01-9	Chrysene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
132-64-9	Dibenzofuran	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
84-66-2	Diethyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
131-11-3	Dimethyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
84-74-2	Di-n-butylphthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
206-44-0	Fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
86-73-7	Fluorene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
67-72-1	Hexachloroethane	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_0.5 **Lab ID:** E130405-03

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
91-20-3	Naphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
98-95-3	Nitrobenzene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
85-01-8	Phenanthrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
108-95-2	Phenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D
129-00-0	Pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:16	EPA 8270D
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:16	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_1.0 **Lab ID:** E130405-04

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
92-52-4	1,1-Biphenyl	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
90-12-0	1-Methylnaphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
58-90-2	2,3,4,6-Tetrachlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
95-95-4	2,4,5-Trichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
88-06-2	2,4,6-Trichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
120-83-2	2,4-Dichlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
105-67-9	2,4-Dimethylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
51-28-5	2,4-Dinitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
121-14-2	2,4-Dinitrotoluene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
606-20-2	2,6-Dinitrotoluene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
91-58-7	2-Chloronaphthalene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
95-57-8	2-Chlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
91-57-6	2-Methylnaphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
88-74-4	2-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
88-75-5	2-Nitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
101-55-3	4-Bromophenyl phenyl ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
59-50-7	4-Chloro-3-methylphenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
7005-72-3	4-Chlorophenyl phenyl ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
83-32-9	Acenaphthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
208-96-8	Acenaphthylene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_1.0 **Lab ID:** E130405-04

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
98-86-2	Acetophenone	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
120-12-7	Anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
1912-24-9	Atrazine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
56-55-3	Benzo(a)anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
50-32-8	Benzo(a)pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
205-99-2	Benzo(b)fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
191-24-2	Benzo(g,h,i)perylene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
207-08-9	Benzo(k)fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
85-68-7	Benzyl butyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
111-91-1	Bis(2-chloroethoxy)methane	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
117-81-7	Bis(2-ethylhexyl) phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
105-60-2	Caprolactam	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
86-74-8	Carbazole	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
218-01-9	Chrysene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
53-70-3	Dibenz(a,h)anthracene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
132-64-9	Dibenzofuran	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
84-66-2	Diethyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
131-11-3	Dimethyl phthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
84-74-2	Di-n-butylphthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
206-44-0	Fluoranthene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
86-73-7	Fluorene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
118-74-1	Hexachlorobenzene (HCB)	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
67-72-1	Hexachloroethane	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
193-39-5	Indeno (1,2,3-cd) pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0188, Southeastern Wood Preserving - Reported by Sallie Hale

Semi Volatile Organics

Project: 13-0188, Southeastern Wood Preserving

Sample ID: SWP236_1.0 **Lab ID:** E130405-04

Station ID: 093D-20B-229/00.00 **Matrix:** Surface Soil

Date Collected: 1/24/13 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
78-59-1	Isophorone	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
91-20-3	Naphthalene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
98-95-3	Nitrobenzene	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
621-64-7	n-Nitroso di-n-Propylamine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
85-01-8	Phenanthrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
108-95-2	Phenol	400	U	ug/kg dry	400	1/25/13 15:20	2/05/13 19:51	EPA 8270D
129-00-0	Pyrene	40	U	ug/kg dry	40	1/25/13 15:20	2/05/13 19:51	EPA 8270D
Tentatively Identified Compounds:								
R4-6510	Hexadecanoic acid (TIC)	700	NJ	ug/kg dry		1/25/13 15:20	2/05/13 19:51	EPA 8270D
R4-6545	Octadecenoic acid, methyl ester (TIC)	400	NJ	ug/kg dry		1/25/13 15:20	2/05/13 19:51	EPA 8270D

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Blank (1301098-BLK1)				Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	U	10	ug/L							U
Benzaldehyde	U	10	"							U
Hexachloroethane	U	10	"							U
Bis(2-chloroisopropyl) ether	U	10	"							U
n-Nitroso di-n-Propylamine	U	10	"							U
Acetophenone	U	10	"							U
Nitrobenzene	U	10	"							U
Hexachlorobutadiene	U	10	"							U
Caprolactam	U	10	"							U
1-Methylnaphthalene	U	0.10	"							U
2-Methylnaphthalene	U	0.10	"							U
1,2,4-Trichlorobenzene	U	10	"							U
Naphthalene	U	0.10	"							U
4-Chloroaniline	U	10	"							U
Bis(2-chloroethoxy)methane	U	10	"							U
Isophorone	U	10	"							U
Hexachlorocyclopentadiene (HCCP)	U	10	"							U
1,1-Biphenyl	U	2.0	"							U
2-Chloronaphthalene	U	10	"							U
2-Nitroaniline	U	10	"							U
Acenaphthylene	U	0.10	"							U
Acenaphthene	U	0.10	"							U
Dimethyl phthalate	U	10	"							U
Dibenzofuran	U	2.0	"							U
2,4-Dinitrotoluene	U	10	"							U
2,6-Dinitrotoluene	U	10	"							U
3-Nitroaniline	U	10	"							U
4-Chlorophenyl phenyl ether	U	10	"							U
4-Nitroaniline	U	10	"							U
Fluorene	U	0.10	"							U
Diethyl phthalate	U	10	"							U
n-Nitrosodiphenylamine/Diphenylamine	U	10	"							U
Hexachlorobenzene (HCB)	U	10	"							U
Atrazine	U	10	"							U
4-Bromophenyl phenyl ether	U	10	"							U
Phenanthrene	U	0.10	"							U
Anthracene	U	0.10	"							U
Carbazole	U	0.10	"							U
Di-n-butylphthalate	U	10	"							U

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Blank (1301098-BLK1)				Prepared: 01/25/13 Analyzed: 02/06/13						
Fluoranthene	U	0.10	ug/L							U
Pyrene	U	0.10	"							U
Benzyl butyl phthalate	U	10	"							U
Bis(2-ethylhexyl) phthalate	U	10	"							U
Benzo(a)anthracene	U	0.10	"							U
Chrysene	U	0.10	"							U
3,3'-Dichlorobenzidine	U	10	"							U
Di-n-octylphthalate	U	10	"							U
Benzo(b)fluoranthene	U	0.10	"							U
Benzo(k)fluoranthene	U	0.10	"							U
Benzo(a)pyrene	U	0.10	"							U
Indeno (1,2,3-cd) pyrene	U	0.10	"							U
Dibenz(a,h)anthracene	U	0.10	"							U
Benzo(g,h,i)perylene	U	0.10	"							U
2-Chlorophenol	U	10	"							U
2-Methylphenol	U	10	"							U
(3-and/or 4-)Methylphenol	U	10	"							U
2-Nitrophenol	U	10	"							U
Phenol	U	10	"							U
2,4-Dimethylphenol	U	10	"							U
2,4-Dichlorophenol	U	10	"							U
2,4,6-Trichlorophenol	U	10	"							U
2,4,5-Trichlorophenol	U	10	"							U
4-Chloro-3-methylphenol	U	10	"							U
2,4-Dinitrophenol	U	10	"							U
2-Methyl-4,6-dinitrophenol	U	10	"							U
Pentachlorophenol	U	0.20	"							U
4-Nitrophenol	U	10	"							U
2,3,4,6-Tetrachlorophenol	U	10	"							U
Tentatively Identified Compounds	U	10	"							U

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
LCS (1301098-BS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	47.498	10	ug/L	60.000		79.2	57.8-95.7			
Benzaldehyde	49.396	10	"	60.000		82.3	48.2-89.1			
Hexachloroethane	40.919	10	"	60.000		68.2	10-69.8			
Bis(2-chloroisopropyl) ether	45.869	10	"	60.000		76.4	43.1-98.6			
n-Nitroso di-n-Propylamine	51.622	10	"	60.000		86.0	52.6-100			
Acetophenone	51.962	10	"	60.000		86.6	54.8-98			
Nitrobenzene	51.866	10	"	60.000		86.4	57.1-92.9			
Hexachlorobutadiene	38.193	10	"	60.000		63.7	16.1-87			
Caprolactam	50.761	10	"	60.000		84.6	47-99.2			
1-Methylnaphthalene	46.788	0.10	"	60.000		78.0	51.9-94.3			
2-Methylnaphthalene	50.344	0.10	"	60.000		83.9	51.9-94.3			
1,2,4-Trichlorobenzene	42.722	10	"	60.000		71.2	34.2-85			
Naphthalene	51.636	0.10	"	60.000		86.1	48.2-86.8			
4-Chloroaniline	43.607	10	"	60.000		72.7	36.3-106			
Bis(2-chloroethoxy)methane	49.826	10	"	60.000		83.0	62.3-96.2			
Isophorone	54.145	10	"	60.000		90.2	57.2-101			
Hexachlorocyclopentadiene (HCCP)	37.311	10	"	60.000		62.2	19.3-84.5			
1,1-Biphenyl	52.419	2.0	"	60.000		87.4	56.7-100			
2-Chloronaphthalene	47.058	10	"	60.000		78.4	55.9-100			
2-Nitroaniline	59.315	10	"	60.000		98.9	64.4-113			
Acenaphthylene	53.773	0.10	"	60.000		89.6	63.5-105			
Acenaphthene	52.833	0.10	"	60.000		88.1	65.2-102			
Dimethyl phthalate	53.321	10	"	60.000		88.9	69.1-105			
Dibenzofuran	54.232	2.0	"	60.000		90.4	66-99.9			
2,4-Dinitrotoluene	57.800	10	"	60.000		96.3	72.3-109			
2,6-Dinitrotoluene	54.926	10	"	60.000		91.5	73.4-106			
3-Nitroaniline	59.146	10	"	60.000		98.6	68.4-106			
4-Chlorophenyl phenyl ether	50.597	10	"	60.000		84.3	69.9-108			
4-Nitroaniline	66.405	10	"	60.000		111	65.3-112			
Fluorene	56.892	0.10	"	60.000		94.8	71.8-106			
Diethyl phthalate	50.113	10	"	60.000		83.5	65.4-115			
n-Nitrosodiphenylamine/Diphenylamine	56.490	10	"	60.000		94.2	65.8-113			
Hexachlorobenzene (HCB)	33.144	10	"	60.000		55.2	57.9-124			QL-1
Atrazine	50.148	10	"	60.000		83.6	27.7-166			
4-Bromophenyl phenyl ether	49.707	10	"	60.000		82.8	63.8-123			
Phenanthrene	51.925	0.10	"	60.000		86.5	51.7-142			
Anthracene	54.353	0.10	"	60.000		90.6	66.2-120			
Carbazole	61.255	0.10	"	60.000		102	65.1-124			
Di-n-butylphthalate	56.697	10	"	60.000		94.5	65.2-124			

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
LCS (1301098-BS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
Fluoranthene	54.334	0.10	ug/L	60.000		90.6	59.6-131			
Pyrene	54.683	0.10	"	60.000		91.1	61.6-126			
Benzyl butyl phthalate	57.922	10	"	60.000		96.5	64.6-121			
Bis(2-ethylhexyl) phthalate	55.647	10	"	60.000		92.7	60.2-125			
Benzo(a)anthracene	52.655	0.10	"	60.000		87.8	73.5-111			
Chrysene	51.427	0.10	"	60.000		85.7	72-110			
3,3'-Dichlorobenzidine	48.913	10	"	60.000		81.5	47.4-104			
Di-n-octylphthalate	53.379	10	"	60.000		89.0	49.1-133			
Benzo(b)fluoranthene	55.843	0.10	"	60.000		93.1	65.7-112			
Benzo(k)fluoranthene	55.767	0.10	"	60.000		92.9	56.8-126			
Benzo(a)pyrene	56.242	0.10	"	60.000		93.7	66.2-113			
Indeno (1,2,3-cd) pyrene	42.106	0.10	"	60.000		70.2	59.3-125			
Dibenz(a,h)anthracene	42.432	0.10	"	60.000		70.7	59.7-124			
Benzo(g,h,i)perylene	38.161	0.10	"	60.000		63.6	56.3-120			
2-Chlorophenol	50.922	10	"	60.000		84.9	53.9-93.8			
2-Methylphenol	50.969	10	"	60.000		84.9	55.6-93			
(3-and/or 4-)Methylphenol	51.650	10	"	60.000		86.1	54.3-95.9			
2-Nitrophenol	53.135	10	"	60.000		88.6	58.4-99.8			
Phenol	49.172	10	"	60.000		82.0	51.3-93.1			
2,4-Dimethylphenol	58.708	10	"	60.000		97.8	40.1-102			
2,4-Dichlorophenol	51.244	10	"	60.000		85.4	60.3-100			
2,4,6-Trichlorophenol	48.320	10	"	60.000		80.5	66-109			
2,4,5-Trichlorophenol	52.847	10	"	60.000		88.1	69.2-109			
4-Chloro-3-methylphenol	50.821	10	"	60.000		84.7	67.3-104			
2,4-Dinitrophenol	88.258	10	"	90.000		98.1	48.8-126			
2-Methyl-4,6-dinitrophenol	57.509	10	"	60.000		95.8	43-162			
Pentachlorophenol	53.146	0.20	"	60.000		88.6	64.5-134			
4-Nitrophenol	58.736	10	"	60.000		97.9	58.1-114			
2,3,4,6-Tetrachlorophenol	57.962	10	"	60.000		96.6	73.3-115			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Matrix Spike (1301098-MS1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	46.823	10	ug/L	59.701	U	78.4	45.2-100			
Benzaldehyde	52.646	10	"	59.701	U	88.2	43.2-90.8			
Hexachloroethane	37.658	10	"	59.701	U	63.1	10-93.7			
Bis(2-chloroisopropyl) ether	44.637	10	"	59.701	U	74.8	25.9-104			
n-Nitroso di-n-Propylamine	50.950	10	"	59.701	U	85.3	42-99.9			
Acetophenone	50.422	10	"	59.701	U	84.5	43.1-100			
Nitrobenzene	51.299	10	"	59.701	U	85.9	49.9-95.2			
Hexachlorobutadiene	38.545	10	"	59.701	U	64.6	10-103			
Caprolactam	43.706	10	"	59.701	U	73.2	34.9-103			
1-Methylnaphthalene	46.654	0.10	"	59.701	U	78.1	52.6-95.5			
2-Methylnaphthalene	50.515	0.10	"	59.701	U	84.6	52.6-95.5			
1,2,4-Trichlorobenzene	41.916	10	"	59.701	U	70.2	32.8-95.2			
Naphthalene	50.495	0.10	"	59.701	U	84.6	49-89.1			
4-Chloroaniline	40.538	10	"	59.701	U	67.9	13.9-103			
Bis(2-chloroethoxy)methane	49.294	10	"	59.701	U	82.6	51.1-98.8			
Isophorone	53.204	10	"	59.701	U	89.1	45.4-101			
Hexachlorocyclopentadiene (HCCP)	36.285	10	"	59.701	U	60.8	27.1-92.1			
1,1-Biphenyl	52.665	2.0	"	59.701	U	88.2	46.7-108			
2-Chloronaphthalene	47.609	10	"	59.701	U	79.7	46.9-109			
2-Nitroaniline	55.578	10	"	59.701	U	93.1	57.7-112			
Acenaphthylene	53.944	0.10	"	59.701	U	90.4	48.9-114			
Acenaphthene	53.161	0.10	"	59.701	U	89.0	53.5-109			
Dimethyl phthalate	51.208	10	"	59.701	U	85.8	62.2-103			
Dibenzofuran	53.508	2.0	"	59.701	U	89.6	59-103			
2,4-Dinitrotoluene	54.977	10	"	59.701	U	92.1	68.6-108			
2,6-Dinitrotoluene	53.554	10	"	59.701	U	89.7	67.6-106			
3-Nitroaniline	54.120	10	"	59.701	U	90.7	43.8-116			
4-Chlorophenyl phenyl ether	49.636	10	"	59.701	U	83.1	62.5-113			
4-Nitroaniline	58.590	10	"	59.701	U	98.1	44.6-121			
Fluorene	55.841	0.10	"	59.701	U	93.5	68.1-108			
Diethyl phthalate	48.267	10	"	59.701	U	80.8	35.1-131			
n-Nitrosodiphenylamine/Diphenylamine	57.590	10	"	59.701	U	96.5	56.8-115			
Hexachlorobenzene (HCB)	35.021	10	"	59.701	U	58.7	54.4-123			
Atrazine	48.508	10	"	59.701	U	81.3	22.5-148			
4-Bromophenyl phenyl ether	51.275	10	"	59.701	U	85.9	60.8-123			
Phenanthrene	53.234	0.10	"	59.701	U	89.2	51.9-135			
Anthracene	55.630	0.10	"	59.701	U	93.2	60.3-121			
Carbazole	62.348	0.10	"	59.701	U	104	59.2-129			
Di-n-butylphthalate	59.900	10	"	59.701	U	100	60-123			

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Matrix Spike (1301098-MS1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
Fluoranthene	55.664	0.10	ug/L	59.701	U	93.2	57.1-125			
Pyrene	56.848	0.10	"	59.701	U	95.2	59.8-122			
Benzyl butyl phthalate	60.764	10	"	59.701	U	102	55.2-122			
Bis(2-ethylhexyl) phthalate	60.668	10	"	59.701	U	102	54.1-125			
Benzo(a)anthracene	54.306	0.10	"	59.701	U	91.0	63.6-114			
Chrysene	52.954	0.10	"	59.701	U	88.7	61.9-114			
3,3'-Dichlorobenzidine	57.143	10	"	59.701	U	95.7	10-119			
Di-n-octylphthalate	55.291	10	"	59.701	U	92.6	44.9-134			
Benzo(b)fluoranthene	52.378	0.10	"	59.701	U	87.7	54.1-120			
Benzo(k)fluoranthene	55.263	0.10	"	59.701	U	92.6	49.6-125			
Benzo(a)pyrene	58.440	0.10	"	59.701	U	97.9	53.1-119			
Indeno (1,2,3-cd) pyrene	50.925	0.10	"	59.701	U	85.3	47.8-129			
Dibenz(a,h)anthracene	51.055	0.10	"	59.701	U	85.5	52.3-123			
Benzo(g,h,i)perylene	47.699	0.10	"	59.701	U	79.9	43.9-123			
2-Chlorophenol	49.642	10	"	59.701	U	83.2	44.6-94.6			
2-Methylphenol	49.550	10	"	59.701	U	83.0	47.2-93.7			
(3-and/or 4-)Methylphenol	49.994	10	"	59.701	U	83.7	46.7-95.5			
2-Nitrophenol	51.962	10	"	59.701	U	87.0	48.9-101			
Phenol	46.117	10	"	59.701	U	77.2	39.3-95.2			
2,4-Dimethylphenol	62.654	10	"	59.701	U	105	42-101			QM-2
2,4-Dichlorophenol	49.449	10	"	59.701	U	82.8	51.2-102			
2,4,6-Trichlorophenol	46.426	10	"	59.701	U	77.8	59.7-111			
2,4,5-Trichlorophenol	50.942	10	"	59.701	U	85.3	64.8-109			
4-Chloro-3-methylphenol	48.791	10	"	59.701	U	81.7	62.4-104			
2,4-Dinitrophenol	80.266	10	"	89.552	U	89.6	54.7-121			
2-Methyl-4,6-dinitrophenol	55.135	10	"	59.701	U	92.4	50.5-145			
Pentachlorophenol	51.224	0.20	"	59.701	U	85.8	58.1-135			
4-Nitrophenol	49.067	10	"	59.701	U	82.2	50-117			
2,3,4,6-Tetrachlorophenol	55.013	10	"	59.701	U	92.1	70.2-112			

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Matrix Spike Dup (1301098-MSD1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	48.611	10	ug/L	60.606	U	80.2	45.2-100	3.75	19.1	
Benzaldehyde	53.421	10	"	60.606	U	88.1	43.2-90.8	1.46	23.1	
Hexachloroethane	37.613	10	"	60.606	U	62.1	10-93.7	0.118	46.7	
Bis(2-chloroisopropyl) ether	46.925	10	"	60.606	U	77.4	25.9-104	5.00	22.2	
n-Nitroso di-n-Propylamine	54.045	10	"	60.606	U	89.2	42-99.9	5.90	14.3	
Acetophenone	53.404	10	"	60.606	U	88.1	43.1-100	5.74	16.2	
Nitrobenzene	52.790	10	"	60.606	U	87.1	49.9-95.2	2.87	14.1	
Hexachlorobutadiene	38.253	10	"	60.606	U	63.1	10-103	0.762	30.4	
Caprolactam	46.521	10	"	60.606	U	76.8	34.9-103	6.24	24.2	
1-Methylnaphthalene	48.437	0.10	"	60.606	U	79.9	52.6-95.5	3.75	14	
2-Methylnaphthalene	51.847	0.10	"	60.606	U	85.5	52.6-95.5	2.60	14	
1,2,4-Trichlorobenzene	42.674	10	"	60.606	U	70.4	32.8-95.2	1.79	25.7	
Naphthalene	51.882	0.10	"	60.606	U	85.6	49-89.1	2.71	20.8	
4-Chloroaniline	43.337	10	"	60.606	U	71.5	13.9-103	6.67	32.8	
Bis(2-chloroethoxy)methane	51.053	10	"	60.606	U	84.2	51.1-98.8	3.51	15.6	
Isophorone	55.403	10	"	60.606	U	91.4	45.4-101	4.05	11.7	
Hexachlorocyclopentadiene (HCCP)	36.648	10	"	60.606	U	60.5	27.1-92.1	0.998	38	
1,1-Biphenyl	56.157	2.0	"	60.606	U	92.7	46.7-108	6.42	17.6	
2-Chloronaphthalene	50.631	10	"	60.606	U	83.5	46.9-109	6.15	19.4	
2-Nitroaniline	58.963	10	"	60.606	U	97.3	57.7-112	5.91	10.1	
Acenaphthylene	56.853	0.10	"	60.606	U	93.8	48.9-114	5.25	13.4	
Acenaphthene	56.222	0.10	"	60.606	U	92.8	53.5-109	5.60	19.7	
Dimethyl phthalate	53.392	10	"	60.606	U	88.1	62.2-103	4.18	10	
Dibenzofuran	56.272	2.0	"	60.606	U	92.8	59-103	5.03	11.4	
2,4-Dinitrotoluene	57.276	10	"	60.606	U	94.5	68.6-108	4.10	10.3	
2,6-Dinitrotoluene	55.921	10	"	60.606	U	92.3	67.6-106	4.32	12.5	
3-Nitroaniline	57.784	10	"	60.606	U	95.3	43.8-116	6.55	16	
4-Chlorophenyl phenyl ether	51.563	10	"	60.606	U	85.1	62.5-113	3.81	12.8	
4-Nitroaniline	61.186	10	"	60.606	U	101	44.6-121	4.33	19.8	
Fluorene	58.831	0.10	"	60.606	U	97.1	68.1-108	5.22	12.4	
Diethyl phthalate	49.564	10	"	60.606	U	81.8	35.1-131	2.65	20.7	
n-Nitrosodiphenylamine/Diphenylamine	61.000	10	"	60.606	U	101	56.8-115	5.75	15.2	
Hexachlorobenzene (HCB)	36.545	10	"	60.606	U	60.3	54.4-123	4.26	11.5	
Atrazine	51.002	10	"	60.606	U	84.2	22.5-148	5.01	17.1	
4-Bromophenyl phenyl ether	54.383	10	"	60.606	U	89.7	60.8-123	5.88	12.3	
Phenanthrene	56.547	0.10	"	60.606	U	93.3	51.9-135	6.04	15.1	
Anthracene	58.182	0.10	"	60.606	U	96.0	60.3-121	4.48	10.5	
Carbazole	65.593	0.10	"	60.606	U	108	59.2-129	5.07	10.3	
Di-n-butylphthalate	61.944	10	"	60.606	U	102	60-123	3.36	11.2	

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
Matrix Spike Dup (1301098-MSD1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
Fluoranthene	57.845	0.10	ug/L	60.606	U	95.4	57.1-125	3.84	14.6	
Pyrene	58.566	0.10	"	60.606	U	96.6	59.8-122	2.98	13.9	
Benzyl butyl phthalate	63.141	10	"	60.606	U	104	55.2-122	3.84	16.5	
Bis(2-ethylhexyl) phthalate	63.229	10	"	60.606	U	104	54.1-125	4.14	21.6	
Benzo(a)anthracene	56.270	0.10	"	60.606	U	92.8	63.6-114	3.55	10	
Chrysene	54.281	0.10	"	60.606	U	89.6	61.9-114	2.47	10	
3,3'-Dichlorobenzidine	60.292	10	"	60.606	U	99.5	10-119	5.36	38.6	
Di-n-octylphthalate	58.944	10	"	60.606	U	97.3	44.9-134	6.40	23.5	
Benzo(b)fluoranthene	54.261	0.10	"	60.606	U	89.5	54.1-120	3.53	13.6	
Benzo(k)fluoranthene	57.634	0.10	"	60.606	U	95.1	49.6-125	4.20	21.1	
Benzo(a)pyrene	60.982	0.10	"	60.606	U	101	53.1-119	4.26	15.1	
Indeno (1,2,3-cd) pyrene	53.656	0.10	"	60.606	U	88.5	47.8-129	5.22	22.5	
Dibenz(a,h)anthracene	54.162	0.10	"	60.606	U	89.4	52.3-123	5.91	21.7	
Benzo(g,h,i)perylene	50.071	0.10	"	60.606	U	82.6	43.9-123	4.85	22.7	
2-Chlorophenol	51.883	10	"	60.606	U	85.6	44.6-94.6	4.41	18.5	
2-Methylphenol	52.183	10	"	60.606	U	86.1	47.2-93.7	5.18	14	
(3-and/or 4-)Methylphenol	53.271	10	"	60.606	U	87.9	46.7-95.5	6.35	13.9	
2-Nitrophenol	54.698	10	"	60.606	U	90.3	48.9-101	5.13	14.7	
Phenol	48.139	10	"	60.606	U	79.4	39.3-95.2	4.29	16.8	
2,4-Dimethylphenol	62.603	10	"	60.606	U	103	42-101	0.0809	18.9	QM-2
2,4-Dichlorophenol	50.920	10	"	60.606	U	84.0	51.2-102	2.93	12.9	
2,4,6-Trichlorophenol	49.385	10	"	60.606	U	81.5	59.7-111	6.18	10.7	
2,4,5-Trichlorophenol	54.378	10	"	60.606	U	89.7	64.8-109	6.52	10	
4-Chloro-3-methylphenol	50.376	10	"	60.606	U	83.1	62.4-104	3.20	10	
2,4-Dinitrophenol	87.678	10	"	90.909	U	96.4	54.7-121	8.83	17	
2-Methyl-4,6-dinitrophenol	59.717	10	"	60.606	U	98.5	50.5-145	7.98	19.4	
Pentachlorophenol	55.050	0.20	"	60.606	U	90.8	58.1-135	7.20	18.3	
4-Nitrophenol	51.829	10	"	60.606	U	85.5	50-117	5.48	16.7	
2,3,4,6-Tetrachlorophenol	58.318	10	"	60.606	U	96.2	70.2-112	5.83	20.8	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
MRL Verification (1301098-PS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	6.0630	10	ug/L	10.000		60.6	37.8-116			MRL-2, Q-2, J
Benzaldehyde	6.4250	10	"	10.000		64.2	28.2-109			MRL-2, Q-2, J
Hexachloroethane	3.9680	10	"	10.000		39.7	10-89.8			MRL-2, Q-2, J
Bis(2-chloroisopropyl) ether	5.7400	10	"	10.000		57.4	23.1-119			MRL-2, Q-2, J
n-Nitroso di-n-Propylamine	6.8860	10	"	10.000		68.9	32.6-120			MRL-2, Q-2, J
Acetophenone	6.6030	10	"	10.000		66.0	34.8-118			MRL-2, Q-2, J
Nitrobenzene	6.7590	10	"	10.000		67.6	37.1-112.9			MRL-2, Q-2, J
Hexachlorobutadiene	3.7370	10	"	10.000		37.4	10-107			MRL-2, Q-2, J
Caprolactam	6.2390	10	"	10.000		62.4	27-119			MRL-2, Q-2, J
1-Methylnaphthalene	1.2560	0.10	"	2.0000		62.8	31.9-114			MRL-2
2-Methylnaphthalene	1.4190	0.10	"	2.0000		71.0	31.9-114			MRL-2
1,2,4-Trichlorobenzene	4.9530	10	"	10.000		49.5	14.2-105			MRL-2, Q-2, J
Naphthalene	1.3460	0.10	"	2.0000		67.3	28.2-107			MRL-2
4-Chloroaniline	4.4150	10	"	10.000		44.2	16.3-126			MRL-2, Q-2, J
Bis(2-chloroethoxy)methane	6.4010	10	"	10.000		64.0	42.3-116			MRL-2, Q-2, J
Isophorone	7.2230	10	"	10.000		72.2	37.2-121			MRL-2, Q-2, J
Hexachlorocyclopentadiene (HCCP)	4.5200	10	"	10.000		45.2	10-104			MRL-2, Q-2, J
1,1-Biphenyl	1.4130	2.0	"	2.0000		70.6	36.7-120			MRL-2, Q-2, J
2-Chloronaphthalene	6.4130	10	"	10.000		64.1	35.9-120			MRL-2, Q-2, J
2-Nitroaniline	8.4580	10	"	10.000		84.6	44.4-133			MRL-2, Q-2, J
Acenaphthylene	1.5860	0.10	"	2.0000		79.3	43.5-125			MRL-2
Acenaphthene	1.5420	0.10	"	2.0000		77.1	45.2-122			MRL-2
Dimethyl phthalate	7.6740	10	"	10.000		76.7	49.1-125			MRL-2, Q-2, J
Dibenzofuran	1.5780	2.0	"	2.0000		78.9	46-120			MRL-2, J
2,4-Dinitrotoluene	8.1950	10	"	10.000		82.0	52.3-129			MRL-2, Q-2, J
2,6-Dinitrotoluene	7.9430	10	"	10.000		79.4	53.4-126			MRL-2, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
MRL Verification (1301098-PS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
3-Nitroaniline	8.6150	10	ug/L	10.000		86.2	48.4-126			MRL-2, Q-2, J
4-Chlorophenyl phenyl ether	7.0630	10	"	10.000		70.6	46.9-128			MRL-2, Q-2, J
4-Nitroaniline	10.377	10	"	10.000		104	45.3-132			MRL-2
Fluorene	1.6600	0.10	"	2.0000		83.0	51.8-126			MRL-2
Diethyl phthalate	7.2970	10	"	10.000		73.0	45.4-135			MRL-2, Q-2, J
n-Nitrosodiphenylamine/Diphenylamine	8.4740	10	"	10.000		84.7	45.8-133			MRL-2, Q-2, J
Hexachlorobenzene (HCB)	5.2130	10	"	10.000		52.1	37.9-144			MRL-2, Q-2, J
Atrazine	7.8530	10	"	10.000		78.5	10-186			MRL-2, Q-2, J
4-Bromophenyl phenyl ether	7.1970	10	"	10.000		72.0	43.8-143			MRL-2, Q-2, J
Phenanthrene	1.6260	0.10	"	2.0000		81.3	31.7-162			MRL-2
Anthracene	1.6620	0.10	"	2.0000		83.1	46.2-140			MRL-2
Carbazole	1.9540	0.10	"	2.0000		97.7	45.1-144			MRL-2
Di-n-butylphthalate	9.0490	10	"	10.000		90.5	45.2-144			MRL-2, Q-2, J
Fluoranthene	1.6590	0.10	"	2.0000		83.0	39.6-151			MRL-2
Pyrene	1.6070	0.10	"	2.0000		80.4	41.6-146			MRL-2
Benzyl butyl phthalate	8.5930	10	"	10.000		85.9	44.6-141			MRL-2, Q-2, J
Bis(2-ethylhexyl) phthalate	8.3170	10	"	10.000		83.2	40.2-145			MRL-2, Q-2, J
Benzo(a)anthracene	1.7070	0.10	"	2.0000		85.4	53.5-131			MRL-2
Chrysene	1.7460	0.10	"	2.0000		87.3	52-130			MRL-2
3,3'-Dichlorobenzidine	7.1320	10	"	10.000		71.3	27.4-124			MRL-2, Q-2, J
Di-n-octylphthalate	7.5810	10	"	10.000		75.8	29.1-153			MRL-2, Q-2, J
Benzo(b)fluoranthene	2.3300	0.10	"	2.0000		116	45.7-132			MRL-2
Benzo(k)fluoranthene	2.0280	0.10	"	2.0000		101	36.8-146			MRL-2
Benzo(a)pyrene	2.0650	0.10	"	2.0000		103	46.2-133			MRL-2
Indeno (1,2,3-cd) pyrene	1.9360	0.10	"	2.0000		96.8	39.3-145			MRL-2
Dibenz(a,h)anthracene	1.9730	0.10	"	2.0000		98.6	39.7-144			MRL-2
Benzo(g,h,i)perylene	1.8720	0.10	"	2.0000		93.6	36.3-140			MRL-2
2-Chlorophenol	6.5370	10	"	10.000		65.4	33.9-114			MRL-2, Q-2, J
2-Methylphenol	6.5010	10	"	10.000		65.0	35.6-113			MRL-2, Q-2, J
(3-and/or 4-)Methylphenol	6.6740	10	"	10.000		66.7	34.3-116			MRL-2, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301098 - E 3520 LLE										
MRL Verification (1301098-PS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
2-Nitrophenol	6.6950	10	ug/L	10.000		67.0	38.4-120			MRL-2, Q-2, J
Phenol	6.4890	10	"	10.000		64.9	31.3-113			MRL-2, Q-2, J
2,4-Dimethylphenol	6.6050	10	"	10.000		66.0	20.1-122			MRL-2, Q-2, J
2,4-Dichlorophenol	6.5660	10	"	10.000		65.7	40.3-120			MRL-2, Q-2, J
2,4,6-Trichlorophenol	6.5820	10	"	10.000		65.8	46-129			MRL-2, Q-2, J
2,4,5-Trichlorophenol	7.3430	10	"	10.000		73.4	49.2-129			MRL-2, Q-2, J
4-Chloro-3-methylphenol	6.8650	10	"	10.000		68.6	47.3-124			MRL-2, Q-2, J
2,4-Dinitrophenol	7.0160	10	"	10.000		70.2	28.8-146			MRL-2, Q-2, J
2-Methyl-4,6-dinitrophenol	8.1280	10	"	10.000		81.3	23-182			MRL-2, Q-2, J
Pentachlorophenol	7.1320	0.20	"	10.000		71.3	24.5-154			MRL-2
4-Nitrophenol	7.8120	10	"	10.000		78.1	38.1-134			MRL-2, Q-2, J
2,3,4,6-Tetrachlorophenol	7.4600	10	"	10.000		74.6	53.3-135			MRL-2, Q-2, J
Batch 1301099 - E 3520 LLE										
Blank (1301099-BLK1)				Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270 SIM										
1-Methylnaphthalene	U	0.10	ug/L							U
2-Methylnaphthalene	U	0.10	"							U
Naphthalene	U	0.10	"							U
Acenaphthylene	U	0.10	"							U
Acenaphthene	U	0.10	"							U
Fluorene	U	0.10	"							U
Phenanthrene	U	0.10	"							U
Anthracene	U	0.10	"							U
Carbazole	U	0.10	"							U
Fluoranthene	U	0.10	"							U
Pyrene	U	0.10	"							U
Benzo(a)anthracene	U	0.10	"							U
Chrysene	U	0.10	"							U
Benzo(b)fluoranthene	U	0.10	"							U
Benzo(k)fluoranthene	U	0.10	"							U
Benzo(a)pyrene	U	0.10	"							U

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301099 - E 3520 LLE										
Blank (1301099-BLK1)				Prepared: 01/25/13 Analyzed: 02/06/13						
Indeno (1,2,3-cd) pyrene	U	0.10	ug/L							U
Dibenz(a,h)anthracene	U	0.10	"							U
Benzo(g,h,i)perylene	U	0.10	"							U
Pentachlorophenol	U	0.20	"							U
LCS (1301099-BS1)				Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270 SIM										
1-Methylnaphthalene	0.71700	0.10	ug/L	1.0000		71.7	50-150			
2-Methylnaphthalene	0.76800	0.10	"	1.0000		76.8	46.7-90			
Naphthalene	0.71900	0.10	"	1.0000		71.9	45.4-92.9			
Acenaphthylene	0.65100	0.10	"	1.0000		65.1	47.2-112			
Acenaphthene	0.74000	0.10	"	1.0000		74.0	44.5-96			
Fluorene	0.72100	0.10	"	1.0000		72.1	46.7-103			
Phenanthrene	0.74400	0.10	"	1.0000		74.4	44.3-113			
Anthracene	0.55800	0.10	"	1.0000		55.8	35.9-110			
Carbazole	0.91700	0.10	"	1.0000		91.7	72.8-133			
Fluoranthene	0.76400	0.10	"	1.0000		76.4	53.6-121			
Pyrene	0.73100	0.10	"	1.0000		73.1	54-101			
Benzo(a)anthracene	0.78400	0.10	"	1.0000		78.4	65.1-119			
Chrysene	0.87500	0.10	"	1.0000		87.5	57.9-103			
Benzo(b)fluoranthene	1.0850	0.10	"	1.0000		108	49.3-125			
Benzo(k)fluoranthene	1.0920	0.10	"	1.0000		109	44.3-126			
Benzo(a)pyrene	0.97800	0.10	"	1.0000		97.8	46.6-145			
Indeno (1,2,3-cd) pyrene	0.81900	0.10	"	1.0000		81.9	50-121			
Dibenz(a,h)anthracene	0.82900	0.10	"	1.0000		82.9	46-123			
Benzo(g,h,i)perylene	0.83300	0.10	"	1.0000		83.3	37.1-122			
Pentachlorophenol	0.85800	0.20	"	2.0000		42.9	31.3-109			
Matrix Spike (1301099-MS1)		**Source: E130403-04**		Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270 SIM										
1-Methylnaphthalene	0.77300	0.10	ug/L	1.0000	U	77.3	50-150			
2-Methylnaphthalene	0.82600	0.10	"	1.0000	U	82.6	36.6-101			
Naphthalene	0.81700	0.10	"	1.0000	U	81.7	37.7-104			
Acenaphthylene	0.72500	0.10	"	1.0000	U	72.5	48.3-119			
Acenaphthene	0.81400	0.10	"	1.0000	U	81.4	40.7-102			
Fluorene	0.79200	0.10	"	1.0000	U	79.2	40.7-110			
Phenanthrene	0.79200	0.10	"	1.0000	U	79.2	42.9-117			
Anthracene	0.77600	0.10	"	1.0000	U	77.6	43.5-120			
Carbazole	1.0910	0.10	"	1.0000	U	109	66.2-145			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301099 - E 3520 LLE										
Matrix Spike (1301099-MS1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
Fluoranthene	0.89000	0.10	ug/L	1.0000	U	89.0	49.8-129			
Pyrene	0.83300	0.10	"	1.0000	U	83.3	38.6-127			
Benzo(a)anthracene	0.91000	0.10	"	1.0000	U	91.0	56.2-140			
Chrysene	0.91200	0.10	"	1.0000	U	91.2	45.6-116			
Benzo(b)fluoranthene	1.1980	0.10	"	1.0000	U	120	38.7-140			
Benzo(k)fluoranthene	1.0200	0.10	"	1.0000	U	102	34.6-137			
Benzo(a)pyrene	1.0160	0.10	"	1.0000	U	102	43.1-157			
Indeno (1,2,3-cd) pyrene	1.0530	0.10	"	1.0000	U	105	49.3-131			
Dibenz(a,h)anthracene	1.1080	0.10	"	1.0000	U	111	47.6-130			
Benzo(g,h,i)perylene	1.0370	0.10	"	1.0000	U	104	34-130			
Pentachlorophenol	1.4160	0.20	"	2.0000	U	70.8	27.3-131			
Matrix Spike Dup (1301099-MSD1)	**Source: E130403-04**			Prepared: 01/25/13 Analyzed: 02/06/13						
EPA 8270 SIM										
1-Methylnaphthalene	0.76436	0.099	ug/L	0.99010	U	77.2	50-150	1.12	20	
2-Methylnaphthalene	0.81584	0.099	"	0.99010	U	82.4	36.6-101	1.24	29.4	
Naphthalene	0.76040	0.099	"	0.99010	U	76.8	37.7-104	7.18	30	
Acenaphthylene	0.74158	0.099	"	0.99010	U	74.9	48.3-119	2.26	29.5	
Acenaphthene	0.80891	0.099	"	0.99010	U	81.7	40.7-102	0.627	31.3	
Fluorene	0.84851	0.099	"	0.99010	U	85.7	40.7-110	6.89	31.6	
Phenanthrene	0.88416	0.099	"	0.99010	U	89.3	42.9-117	11.0	24.4	
Anthracene	0.87921	0.099	"	0.99010	U	88.8	43.5-120	12.5	29.2	
Carbazole	1.2030	0.099	"	0.99010	U	122	66.2-145	9.76	19.6	
Fluoranthene	1.0050	0.099	"	0.99010	U	102	49.8-129	12.1	21.5	
Pyrene	0.99802	0.099	"	0.99010	U	101	38.6-127	18.0	37.9	
Benzo(a)anthracene	1.0426	0.099	"	0.99010	U	105	56.2-140	13.6	26	
Chrysene	1.0594	0.099	"	0.99010	U	107	45.6-116	15.0	26.5	
Benzo(b)fluoranthene	1.1911	0.099	"	0.99010	U	120	38.7-140	0.579	25.7	
Benzo(k)fluoranthene	1.1683	0.099	"	0.99010	U	118	34.6-137	13.6	26.9	
Benzo(a)pyrene	1.1386	0.099	"	0.99010	U	115	43.1-157	11.4	28.6	
Indeno (1,2,3-cd) pyrene	0.89406	0.099	"	0.99010	U	90.3	49.3-131	16.3	35	
Dibenz(a,h)anthracene	0.93069	0.099	"	0.99010	U	94.0	47.6-130	17.4	34.5	
Benzo(g,h,i)perylene	0.90495	0.099	"	0.99010	U	91.4	34-130	13.6	39.6	
Pentachlorophenol	1.6277	0.20	"	1.9802	U	82.2	27.3-131	13.9	47.9	

Semi Volatile Organics (SVOA) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301099 - E 3520 LLE										
MRL Verification (1301099-PS1)				Prepared: 01/25/13 Analyzed: 02/07/13						
EPA 8270 SIM										
1-Methylnaphthalene	0.086000	0.050	ug/L	0.10000		86.0	30-170			MRL-2
2-Methylnaphthalene	0.089000	0.10	"	0.10000		89.0	40.2-101			MRL-2, Q-2, J
Naphthalene	0.078000	0.10	"	0.10000		78.0	34.8-120			MRL-2, Q-2, J
Acenaphthylene	0.063000	0.10	"	0.10000		63.0	28.7-113			MRL-2, Q-2, J
Acenaphthene	0.083000	0.10	"	0.10000		83.0	32.3-107			MRL-2, Q-2, J
Fluorene	0.084000	0.10	"	0.10000		84.0	32.6-113			MRL-2, Q-2, J
Phenanthrene	0.091000	0.10	"	0.10000		91.0	38-121			MRL-2, Q-2, J
Anthracene	0.057000	0.10	"	0.10000		57.0	34.7-101			MRL-2, Q-2, J
Carbazole	0.11700	0.10	"	0.10000		117	59-118			MRL-2
Fluoranthene	0.10100	0.10	"	0.10000		101	43.3-135			MRL-2
Pyrene	0.096000	0.10	"	0.10000		96.0	45.9-114			MRL-2, Q-2, J
Benzo(a)anthracene	0.13600	0.10	"	0.10000		136	39.5-136			MRL-2
Chrysene	0.10100	0.10	"	0.10000		101	44.9-117			MRL-2
Benzo(b)fluoranthene	0.13300	0.10	"	0.10000		133	34.6-136			MRL-2
Benzo(k)fluoranthene	0.10500	0.10	"	0.10000		105	31.2-129			MRL-2
Benzo(a)pyrene	0.095000	0.10	"	0.10000		95.0	23.6-144			MRL-2, Q-2, J
Indeno (1,2,3-cd) pyrene	0.092000	0.10	"	0.10000		92.0	34.9-131			MRL-2, Q-2, J
Dibenz(a,h)anthracene	0.094000	0.10	"	0.10000		94.0	35.9-127			MRL-2, Q-2, J
Benzo(g,h,i)perylene	0.11600	0.10	"	0.10000		116	32.3-131			MRL-2
Pentachlorophenol	0.074000	0.20	"	0.20000		37.0	13.2-135			MRL-2, Q-2, J
Batch 1301105 - E 3545A Modified										
Blank (1301105-BLK1)				Prepared: 01/25/13 Analyzed: 02/05/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	U	330	ug/kg dry							U
Benzaldehyde	U	330	"							U
Hexachloroethane	U	330	"							U
Bis(2-chloroisopropyl) ether	U	330	"							U
n-Nitroso di-n-Propylamine	U	330	"							U
Acetophenone	U	330	"							U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
Blank (1301105-BLK1)				Prepared: 01/25/13 Analyzed: 02/05/13						
Nitrobenzene	U	330	ug/kg dry							U
Caprolactam	U	330	"							U
1-Methylnaphthalene	U	33	"							U
2-Methylnaphthalene	U	33	"							U
Naphthalene	U	33	"							U
4-Chloroaniline	U	330	"							U
Bis(2-chloroethoxy)methane	U	330	"							U
Isophorone	U	330	"							U
Hexachlorocyclopentadiene (HCCP)	U	330	"							U
1,1-Biphenyl	U	33	"							U
2-Chloronaphthalene	U	330	"							U
2-Nitroaniline	U	330	"							U
Acenaphthylene	U	33	"							U
Acenaphthene	U	33	"							U
Dimethyl phthalate	U	330	"							U
Dibenzofuran	U	33	"							U
2,4-Dinitrotoluene	U	330	"							U
2,6-Dinitrotoluene	U	330	"							U
3-Nitroaniline	U	330	"							U
4-Chlorophenyl phenyl ether	U	330	"							U
4-Nitroaniline	U	330	"							U
Fluorene	U	33	"							U
Diethyl phthalate	U	330	"							U
n-Nitrosodiphenylamine/Diphenylamine	U	330	"							U
Hexachlorobenzene (HCB)	U	33	"							U
Atrazine	U	330	"							U
4-Bromophenyl phenyl ether	U	330	"							U
Phenanthrene	U	33	"							U
Anthracene	U	33	"							U
Carbazole	U	33	"							U
Di-n-butylphthalate	U	330	"							U
Fluoranthene	U	33	"							U
Pyrene	U	33	"							U
Benzyl butyl phthalate	U	330	"							U
Bis(2-ethylhexyl) phthalate	U	330	"							U
Benzo(a)anthracene	U	33	"							U
Chrysene	U	33	"							U
3,3'-Dichlorobenzidine	U	330	"							U
Di-n-octylphthalate	U	330	"							U
Benzo(b)fluoranthene	U	33	"							U

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
Blank (1301105-BLK1)				Prepared: 01/25/13 Analyzed: 02/05/13						
Benzo(k)fluoranthene	U	33	ug/kg dry							U
Benzo(a)pyrene	U	33	"							U
Indeno (1,2,3-cd) pyrene	U	33	"							U
Dibenz(a,h)anthracene	U	33	"							U
Benzo(g,h,i)perylene	U	33	"							U
2-Chlorophenol	U	330	"							U
2-Methylphenol	U	330	"							U
(3-and/or 4-)Methylphenol	U	330	"							U
2-Nitrophenol	U	330	"							U
Phenol	U	330	"							U
2,4-Dimethylphenol	U	330	"							U
2,4-Dichlorophenol	U	330	"							U
2,4,6-Trichlorophenol	U	330	"							U
2,4,5-Trichlorophenol	U	330	"							U
4-Chloro-3-methylphenol	U	330	"							U
2,4-Dinitrophenol	U	330	"							U
2-Methyl-4,6-dinitrophenol	U	330	"							U
Pentachlorophenol	U	330	"							U
4-Nitrophenol	U	330	"							U
2,3,4,6-Tetrachlorophenol	U	330	"							U
Tentatively Identified Compounds	U	300	"							
LCS (1301105-BS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1363.6	340	ug/kg dry	2031.1		67.1	51.5-99.2			
Benzaldehyde	2073.5	340	"	2031.1		102	44.4-101			QL-2
Hexachloroethane	1271.2	340	"	2031.1		62.6	51.6-94			
Bis(2-chloroisopropyl) ether	1367.3	340	"	2031.1		67.3	44.2-104			
n-Nitroso di-n-Propylamine	1462.1	340	"	2031.1		72.0	52.8-93.2			
Acetophenone	1487.1	340	"	2031.1		73.2	51.3-98			
Nitrobenzene	1451.9	340	"	2031.1		71.5	56.7-91.3			
Caprolactam	1723.1	340	"	2031.1		84.8	64.8-108			
1-Methylnaphthalene	1415.0	34	"	2031.1		69.7	59.5-96.8			
2-Methylnaphthalene	1520.6	34	"	2031.1		74.9	59.5-96.8			
Naphthalene	1539.9	34	"	2031.1		75.8	57.7-99.7			
4-Chloroaniline	1053.5	340	"	2031.1		51.9	22.4-76.5			
Bis(2-chloroethoxy)methane	1460.4	340	"	2031.1		71.9	57.1-98.5			
Isophorone	1521.0	340	"	2031.1		74.9	57.3-95.4			
Hexachlorocyclopentadiene (HCCP)	921.80	340	"	2031.1		45.4	37.9-76.4			
1,1-Biphenyl	1512.9	34	"	2031.1		74.5	64.9-94.8			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
LCS (1301105-BS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
2-Chloronaphthalene	1427.9	340	ug/kg dry	2031.1		70.3	66.4-95.5			
2-Nitroaniline	1604.9	340	"	2031.1		79.0	60.9-106			
Acenaphthylene	1574.5	34	"	2031.1		77.5	66.8-98.6			
Acenaphthene	1551.1	34	"	2031.1		76.4	63-97.9			
Dimethyl phthalate	1600.2	340	"	2031.1		78.8	69.2-96.4			
Dibenzofuran	1600.2	34	"	2031.1		78.8	61.4-95			
2,4-Dinitrotoluene	1641.5	340	"	2031.1		80.8	63-106			
2,6-Dinitrotoluene	1584.3	340	"	2031.1		78.0	63.1-106			
3-Nitroaniline	1582.9	340	"	2031.1		77.9	42.2-90.8			
4-Chlorophenyl phenyl ether	1553.1	340	"	2031.1		76.5	66-102			
4-Nitroaniline	2030.5	340	"	2031.1		100	57.5-118			
Fluorene	1657.4	34	"	2031.1		81.6	65.6-103			
Diethyl phthalate	1397.4	340	"	2031.1		68.8	60.5-106			
n-Nitrosodiphenylamine/Diphenylamine	1731.6	340	"	2031.1		85.2	55.6-110			
Hexachlorobenzene (HCB)	1163.5	34	"	2031.1		57.3	53.5-123			
Atrazine	1440.1	340	"	2031.1		70.9	35.6-156			
4-Bromophenyl phenyl ether	1612.1	340	"	2031.1		79.4	52.8-126			
Phenanthrene	1659.4	34	"	2031.1		81.7	56.5-119			
Anthracene	1640.5	34	"	2031.1		80.8	57.4-116			
Carbazole	1800.9	34	"	2031.1		88.7	69-118			
Di-n-butylphthalate	1788.8	340	"	2031.1		88.1	60.6-122			
Fluoranthene	1731.9	34	"	2031.1		85.3	59.4-119			
Pyrene	1646.9	34	"	2031.1		81.1	59.6-113			
Benzyl butyl phthalate	1851.4	340	"	2031.1		91.2	71.3-109			
Bis(2-ethylhexyl) phthalate	1921.5	340	"	2031.1		94.6	64.9-112			
Benzo(a)anthracene	1702.1	34	"	2031.1		83.8	63.9-111			
Chrysene	1676.4	34	"	2031.1		82.5	62.1-109			
3,3'-Dichlorobenzidine	1607.3	340	"	2031.1		79.1	28.8-87.1			
Di-n-octylphthalate	1879.1	340	"	2031.1		92.5	47.6-121			
Benzo(b)fluoranthene	1794.2	34	"	2031.1		88.3	51.3-110			
Benzo(k)fluoranthene	1867.0	34	"	2031.1		91.9	57.5-104			
Benzo(a)pyrene	1838.2	34	"	2031.1		90.5	50-102			
Indeno (1,2,3-cd) pyrene	1937.4	34	"	2031.1		95.4	37.5-118			
Dibenz(a,h)anthracene	1382.2	34	"	2031.1		68.1	20-153			
Benzo(g,h,i)perylene	1930.6	34	"	2031.1		95.0	10-111			
2-Chlorophenol	1459.0	340	"	2031.1		71.8	55.1-95.8			
2-Methylphenol	1422.8	340	"	2031.1		70.0	44.3-96.3			
(3-and/or 4-)Methylphenol	1456.7	340	"	2031.1		71.7	45.2-102			
2-Nitrophenol	1489.2	340	"	2031.1		73.3	60.7-94.6			
Phenol	1446.5	340	"	2031.1		71.2	54.3-98.5			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
LCS (1301105-BS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
2,4-Dimethylphenol	1115.1	340	ug/kg dry	2031.1		54.9	24.5-75.8			
2,4-Dichlorophenol	1577.5	340	"	2031.1		77.7	64-96.5			
2,4,6-Trichlorophenol	1562.0	340	"	2031.1		76.9	66-103			
2,4,5-Trichlorophenol	1603.9	340	"	2031.1		79.0	59.3-110			
4-Chloro-3-methylphenol	1591.1	340	"	2031.1		78.3	66.8-100			
2,4-Dinitrophenol	1195.7	340	"	3046.7		39.2	12.4-63.8			
2-Methyl-4,6-dinitrophenol	1384.2	340	"	2031.1		68.2	44-114			
Pentachlorophenol	1463.1	340	"	2031.1		72.0	57-115			
4-Nitrophenol	1595.5	340	"	2031.1		78.6	56.3-118			
2,3,4,6-Tetrachlorophenol	1521.3	340	"	2031.1		74.9	68.4-109			
Matrix Spike (1301105-MS1)		**Source: E130403-09**		Prepared: 01/25/13 Analyzed: 02/07/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1714.7	460	ug/kg dry	2815.6	U	60.9	45.6-94.2			
Benzaldehyde	1419.1	460	"	2815.6	U	50.4	21.1-101			
Hexachloroethane	1542.5	460	"	2815.6	U	54.8	35.8-90.1			
Bis(2-chloroisopropyl) ether	1747.1	460	"	2815.6	U	62.0	35.4-99.7			
n-Nitroso di-n-Propylamine	1847.0	460	"	2815.6	U	65.6	46.9-91.9			
Acetophenone	1925.4	460	"	2815.6	U	68.4	48.1-93.7			
Nitrobenzene	1847.0	460	"	2815.6	U	65.6	51-89.7			
Caprolactam	2164.2	460	"	2815.6	U	76.9	53.6-116			
1-Methylnaphthalene	1814.2	46	"	2815.6	U	64.4	59.5-90.9			
2-Methylnaphthalene	1966.7	46	"	2815.6	U	69.8	59.5-90.9			
Naphthalene	2007.0	46	"	2815.6	U	71.3	55.1-91.2			
4-Chloroaniline	170.34	460	"	2815.6	U	6.05	10-70.6			Q-2, QM-6, J
Bis(2-chloroethoxy)methane	1852.7	460	"	2815.6	U	65.8	57.5-94.1			
Isophorone	1916.9	460	"	2815.6	U	68.1	53.8-94.7			
Hexachlorocyclopentadiene (HCCP)	693.10	460	"	2815.6	U	24.6	10-81.2			
1,1-Biphenyl	1921.2	46	"	2815.6	U	68.2	57.1-99.7			
2-Chloronaphthalene	1832.0	460	"	2815.6	U	65.1	63.8-92			
2-Nitroaniline	2121.5	460	"	2815.6	U	75.3	20.5-132			
Acenaphthylene	1985.0	46	"	2815.6	U	70.5	60.2-94.7			
Acenaphthene	1988.7	46	"	2815.6	U	70.6	63.3-93.5			
Dimethyl phthalate	2050.7	460	"	2815.6	U	72.8	66.6-97			
Dibenzofuran	2126.7	46	"	2815.6	U	75.5	58.7-94			
2,4-Dinitrotoluene	2309.7	460	"	2815.6	U	82.0	63.1-105			
2,6-Dinitrotoluene	2153.9	460	"	2815.6	U	76.5	61.1-107			
3-Nitroaniline	1069.0	460	"	2815.6	U	38.0	10-96.9			
4-Chlorophenyl phenyl ether	1969.5	460	"	2815.6	U	69.9	60.2-102			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
Matrix Spike (1301105-MS1)	**Source: E130403-09**			Prepared: 01/25/13 Analyzed: 02/07/13						
4-Nitroaniline	2042.7	460	ug/kg dry	2815.6	U	72.5	21.8-119			
Fluorene	2135.1	46	"	2815.6	U	75.8	63.4-99.7			
Diethyl phthalate	1717.5	460	"	2815.6	U	61.0	58.8-105			
n-Nitrosodiphenylamine/Diphenylamine	1656.5	460	"	2815.6	U	58.8	46.3-113			
Hexachlorobenzene (HCB)	1367.0	46	"	2815.6	U	48.6	51.3-118			QM-1
Atrazine	1562.6	460	"	2815.6	U	55.5	32.8-146			
4-Bromophenyl phenyl ether	1929.6	460	"	2815.6	U	68.5	51.6-120			
Phenanthrene	2253.9	46	"	2815.6	95.171	76.7	46.2-120			
Anthracene	2144.1	46	"	2815.6	75.481	73.5	46-110			
Carbazole	2702.5	46	"	2815.6	97.984	92.5	62-120			
Di-n-butylphthalate	1951.7	460	"	2815.6	U	69.3	49.1-120			
Fluoranthene	3469.7	46	"	2815.6	791.37	95.1	35.1-128			
Pyrene	3109.8	46	"	2815.6	773.09	83.0	39.6-126			
Benzyl butyl phthalate	2043.2	460	"	2815.6	U	72.6	64.4-109			
Bis(2-ethylhexyl) phthalate	1933.8	460	"	2815.6	U	68.7	51.4-117			
Benzo(a)anthracene	2774.8	46	"	2815.6	427.57	83.4	49.7-110			
Chrysene	3324.3	46	"	2815.6	895.92	86.2	45.7-111			
3,3'-Dichlorobenzidine	U	460	"	2815.6	U		10-91.6			QM-6, U
Di-n-octylphthalate	2508.2	460	"	2815.6	U	89.1	50.2-120			
Benzo(b)fluoranthene	4483.3	46	"	2815.6	1143.9	119	41.1-114			QM-2
Benzo(k)fluoranthene	3230.4	46	"	2815.6	824.66	85.4	48.9-103			
Benzo(a)pyrene	2967.2	46	"	2815.6	488.51	88.0	36.7-105			
Indeno (1,2,3-cd) pyrene	2274.5	46	"	2815.6	240.98	72.2	32.5-106			
Dibenz(a,h)anthracene	1943.2	46	"	2815.6	80.638	66.2	38.7-105			
Benzo(g,h,i)perylene	2181.1	46	"	2815.6	212.38	69.9	10-100			
2-Chlorophenol	1577.7	460	"	2815.6	U	56.0	37.6-102			
2-Methylphenol	813.23	460	"	2815.6	U	28.9	21.1-108			
(3-and/or 4-)Methylphenol	726.89	460	"	2815.6	U	25.8	10-120			
2-Nitrophenol	1997.2	460	"	2815.6	U	70.9	36.5-113			
Phenol	1638.7	460	"	2815.6	U	58.2	43.1-99.9			
2,4-Dimethylphenol	357.11	460	"	2815.6	U	12.7	10-132			Q-2, J
2,4-Dichlorophenol	1854.5	460	"	2815.6	U	65.9	46.1-112			
2,4,6-Trichlorophenol	1707.6	460	"	2815.6	U	60.6	44.2-123			
2,4,5-Trichlorophenol	2133.3	460	"	2815.6	U	75.8	62.4-113			
4-Chloro-3-methylphenol	1845.6	460	"	2815.6	U	65.6	63.9-106			
2,4-Dinitrophenol	3243.5	460	"	4223.4	U	76.8	10-132			
2-Methyl-4,6-dinitrophenol	2209.3	460	"	2815.6	U	78.5	28.8-144			
Pentachlorophenol	2132.8	460	"	2815.6	66.573	73.4	48.5-134			
4-Nitrophenol	2494.6	460	"	2815.6	U	88.6	57.8-118			
2,3,4,6-Tetrachlorophenol	1934.8	460	"	2815.6	U	68.7	60.9-116			

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
Matrix Spike (1301105-MS1)	**Source: E130403-09**			Prepared: 01/25/13 Analyzed: 02/07/13						
Matrix Spike Dup (1301105-MSD1)	**Source: E130403-09**			Prepared: 01/25/13 Analyzed: 02/07/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	1812.1	460	ug/kg dry	2811.6	U	64.5	45.6-94.2	5.52	25.1	
Benzaldehyde	1849.1	460	"	2811.6	U	65.8	21.1-101	26.3	33.9	
Hexachloroethane	1624.2	460	"	2811.6	U	57.8	35.8-90.1	5.16	29.9	
Bis(2-chloroisopropyl) ether	1840.7	460	"	2811.6	U	65.5	35.4-99.7	5.22	25	
n-Nitroso di-n-Propylamine	1878.2	460	"	2811.6	U	66.8	46.9-91.9	1.67	17.6	
Acetophenone	1988.8	460	"	2811.6	U	70.7	48.1-93.7	3.24	18.7	
Nitrobenzene	1921.3	460	"	2811.6	U	68.3	51-89.7	3.94	20.6	
Caprolactam	2194.5	460	"	2811.6	U	78.1	53.6-116	1.39	28.6	
1-Methylnaphthalene	1845.8	46	"	2811.6	U	65.6	59.5-90.9	1.73	14	
2-Methylnaphthalene	2017.3	46	"	2811.6	U	71.8	59.5-90.9	2.54	19.1	
Naphthalene	2029.5	46	"	2811.6	U	72.2	55.1-91.2	1.11	21.7	
4-Chloroaniline	267.10	460	"	2811.6	U	9.50	10-70.6	44.2	77.2	Q-2, QM-6, J
Bis(2-chloroethoxy)methane	1926.4	460	"	2811.6	U	68.5	57.5-94.1	3.90	16.4	
Isophorone	1934.9	460	"	2811.6	U	68.8	53.8-94.7	0.931	14	
Hexachlorocyclopentadiene (HCCP)	709.00	460	"	2811.6	U	25.2	10-81.2	2.27	60.1	
1,1-Biphenyl	1989.2	46	"	2811.6	U	70.8	57.1-99.7	3.48	18.4	
2-Chloronaphthalene	1909.1	460	"	2811.6	U	67.9	63.8-92	4.12	14.9	
2-Nitroaniline	2294.3	460	"	2811.6	U	81.6	20.5-132	7.82	25.1	
Acenaphthylene	2037.5	46	"	2811.6	U	72.5	60.2-94.7	2.61	23.4	
Acenaphthene	2033.7	46	"	2811.6	U	72.3	63.3-93.5	2.24	19.2	
Dimethyl phthalate	2123.7	460	"	2811.6	U	75.5	66.6-97	3.50	15.8	
Dibenzofuran	2188.8	46	"	2811.6	U	77.8	58.7-94	2.88	16.4	
2,4-Dinitrotoluene	2461.1	460	"	2811.6	U	87.5	63.1-105	6.35	13.3	
2,6-Dinitrotoluene	2267.1	460	"	2811.6	U	80.6	61.1-107	5.12	16.4	
3-Nitroaniline	1401.6	460	"	2811.6	U	49.8	10-96.9	26.9	36.3	
4-Chlorophenyl phenyl ether	2053.4	460	"	2811.6	U	73.0	60.2-102	4.17	17.3	
4-Nitroaniline	2371.6	460	"	2811.6	U	84.4	21.8-119	14.9	29.5	
Fluorene	2205.2	46	"	2811.6	U	78.4	63.4-99.7	3.23	19.1	
Diethyl phthalate	1760.1	460	"	2811.6	U	62.6	58.8-105	2.45	17.9	
n-Nitrosodiphenylamine/Diphenylamine	1811.2	460	"	2811.6	U	64.4	46.3-113	8.92	25.9	
Hexachlorobenzene (HCB)	1440.0	46	"	2811.6	U	51.2	51.3-118	5.21	19.6	QM-1
Atrazine	1553.4	460	"	2811.6	U	55.3	32.8-146	0.592	14.9	
4-Bromophenyl phenyl ether	2080.6	460	"	2811.6	U	74.0	51.6-120	7.53	17.5	
Phenanthrene	2286.3	46	"	2811.6	95.171	77.9	46.2-120	1.43	19.5	
Anthracene	2178.5	46	"	2811.6	75.481	74.8	46-110	1.60	31.7	
Carbazole	2776.0	46	"	2811.6	97.984	95.2	62-120	2.68	15.1	

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
Matrix Spike Dup (1301105-MSD1)	**Source: E130403-09**			Prepared: 01/25/13 Analyzed: 02/07/13						
Di-n-butylphthalate	1963.9	460	ug/kg dry	2811.6	U	69.9	49.1-120	0.626	16.2	
Fluoranthene	2988.8	46	"	2811.6	791.37	78.2	35.1-128	14.9	21.9	
Pyrene	2926.4	46	"	2811.6	773.09	76.6	39.6-126	6.08	22.9	
Benzyl butyl phthalate	2138.7	460	"	2811.6	U	76.1	64.4-109	4.57	16.2	
Bis(2-ethylhexyl) phthalate	2071.7	460	"	2811.6	U	73.7	51.4-117	6.88	17	
Benzo(a)anthracene	2623.7	46	"	2811.6	427.57	78.1	49.7-110	5.60	23.5	
Chrysene	3014.1	46	"	2811.6	895.92	75.3	45.7-111	9.79	25.3	
3,3'-Dichlorobenzidine	U	460	"	2811.6	U		10-91.6		67.4	QM-6, U
Di-n-octylphthalate	2806.0	460	"	2811.6	U	99.8	50.2-120	11.2	16.8	
Benzo(b)fluoranthene	4244.1	46	"	2811.6	1143.9	110	41.1-114	5.48	23.7	
Benzo(k)fluoranthene	3053.9	46	"	2811.6	824.66	79.3	48.9-103	5.62	29.8	
Benzo(a)pyrene	2891.8	46	"	2811.6	488.51	85.5	36.7-105	2.57	20.7	
Indeno (1,2,3-cd) pyrene	2299.9	46	"	2811.6	240.98	73.2	32.5-106	1.11	24.5	
Dibenz(a,h)anthracene	2038.9	46	"	2811.6	80.638	69.6	38.7-105	4.81	21.6	
Benzo(g,h,i)perylene	2203.4	46	"	2811.6	212.38	70.8	10-100	1.01	25.6	
2-Chlorophenol	1748.4	460	"	2811.6	U	62.2	37.6-102	10.3	21.4	
2-Methylphenol	1055.3	460	"	2811.6	U	37.5	21.1-108	25.9	25.4	QM-3
(3-and/or 4-)Methylphenol	1013.6	460	"	2811.6	U	36.0	10-120	32.9	30.7	QM-3
2-Nitrophenol	2117.6	460	"	2811.6	U	75.3	36.5-113	5.85	21	
Phenol	1758.7	460	"	2811.6	U	62.6	43.1-99.9	7.06	20.4	
2,4-Dimethylphenol	442.83	460	"	2811.6	U	15.8	10-132	21.4	39.1	Q-2, J
2,4-Dichlorophenol	2011.2	460	"	2811.6	U	71.5	46.1-112	8.11	17.7	
2,4,6-Trichlorophenol	1890.3	460	"	2811.6	U	67.2	44.2-123	10.2	17.2	
2,4,5-Trichlorophenol	2340.7	460	"	2811.6	U	83.3	62.4-113	9.27	13.1	
4-Chloro-3-methylphenol	1991.1	460	"	2811.6	U	70.8	63.9-106	7.58	18.4	
2,4-Dinitrophenol	3574.0	460	"	4217.4	U	84.7	10-132	9.70	52.3	
2-Methyl-4,6-dinitrophenol	2316.8	460	"	2811.6	U	82.4	28.8-144	4.75	24.8	
Pentachlorophenol	2157.9	460	"	2811.6	66.573	74.4	48.5-134	1.17	19.1	
4-Nitrophenol	2641.0	460	"	2811.6	U	93.9	57.8-118	5.70	20.3	
2,3,4,6-Tetrachlorophenol	2080.1	460	"	2811.6	U	74.0	60.9-116	7.24	17	

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
MRL Verification (1301105-PS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
EPA 8270D										
bis(2-Chloroethyl) Ether	221.39	340	ug/kg dry	338.52		65.4	31.5-119			MRL-3, Q-2, J
Benzaldehyde	271.16	340	"	338.52		80.1	24.4-121			MRL-3, Q-2, J
Hexachloroethane	198.04	340	"	338.52		58.5	31.6-114			MRL-3, Q-2, J
Bis(2-chloroisopropyl) ether	220.38	340	"	338.52		65.1	24.2-124			MRL-3, Q-2, J
n-Nitroso di-n-Propylamine	250.85	340	"	338.52		74.1	32.8-113			MRL-3, Q-2, J
Acetophenone	252.88	340	"	338.52		74.7	31.3-118			MRL-3, Q-2, J
Nitrobenzene	244.41	340	"	338.52		72.2	36.7-111			MRL-3, Q-2, J
Caprolactam	247.46	340	"	338.52		73.1	44.8-128			MRL-3, Q-2, J
1-Methylnaphthalene	23.697	34	"	33.852		70.0	39.5-117			MRL-3, Q-2, J
2-Methylnaphthalene	25.728	34	"	33.852		76.0	39.5-117			MRL-3, Q-2, J
Naphthalene	26.743	34	"	33.852		79.0	37.7-120			MRL-3, Q-2, J
4-Chloroaniline	149.97	340	"	338.52		44.3	10-96.5			MRL-3, Q-2, J
Bis(2-chloroethoxy)methane	233.92	340	"	338.52		69.1	37.1-118			MRL-3, Q-2, J
Isophorone	257.28	340	"	338.52		76.0	37.3-115			MRL-3, Q-2, J
Hexachlorocyclopentadiene (HCCP)	152.00	340	"	338.52		44.9	17.9-96.4			MRL-3, Q-2, J
1,1-Biphenyl	25.051	34	"	33.852		74.0	44.9-115			MRL-3, Q-2, J
2-Chloronaphthalene	239.00	340	"	338.52		70.6	46.4-116			MRL-3, Q-2, J
2-Nitroaniline	250.17	340	"	338.52		73.9	40.9-126			MRL-3, Q-2, J
Acenaphthylene	25.728	34	"	33.852		76.0	46.8-119			Q-2, MRL-3, J
Acenaphthene	25.051	34	"	33.852		74.0	43-118			MRL-3, Q-2, J
Dimethyl phthalate	264.73	340	"	338.52		78.2	49.2-116			MRL-3, Q-2, J
Dibenzofuran	26.066	34	"	33.852		77.0	41.4-115			MRL-3, Q-2, J
2,4-Dinitrotoluene	241.71	340	"	338.52		71.4	43-126			MRL-3, Q-2, J
2,6-Dinitrotoluene	236.29	340	"	338.52		69.8	43.1-126			MRL-3, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
MRL Verification (1301105-PS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
3-Nitroaniline	218.69	340	ug/kg dry	338.52		64.6	22.2-111			MRL-3, Q-2, J
4-Chlorophenyl phenyl ether	238.66	340	"	338.52		70.5	46-122			MRL-3, Q-2, J
4-Nitroaniline	254.23	340	"	338.52		75.1	37.5-138			MRL-3, Q-2, J
Fluorene	25.051	34	"	33.852		74.0	45.6-123			MRL-3, Q-2, J
Diethyl phthalate	239.34	340	"	338.52		70.7	40.5-126			MRL-3, Q-2, J
n-Nitrosodiphenylamine/Diphenylamine	278.27	340	"	338.52		82.2	35.6-130			MRL-3, Q-2, J
Hexachlorobenzene (HCB)	201.76	34	"	338.52		59.6	33.5-143			MRL-3
Atrazine	272.51	340	"	338.52		80.5	15.6-176			MRL-3, Q-2, J
4-Bromophenyl phenyl ether	245.43	340	"	338.52		72.5	32.8-146			MRL-3, Q-2, J
Phenanthrene	26.405	34	"	33.852		78.0	36.5-139			MRL-3, Q-2, J
Anthracene	25.051	34	"	33.852		74.0	37.4-136			MRL-3, Q-2, J
Carbazole	26.743	34	"	33.852		79.0	49-138			MRL-3, Q-2, J
Di-n-butylphthalate	340.56	340	"	338.52		101	40.6-142			MRL-3
Fluoranthene	26.405	34	"	33.852		78.0	39.4-139			MRL-3, Q-2, J
Pyrene	24.035	34	"	33.852		71.0	39.6-133			MRL-3, Q-2, J
Benzyl butyl phthalate	302.98	340	"	338.52		89.5	51.3-129			MRL-3, Q-2, J
Bis(2-ethylhexyl) phthalate	306.03	340	"	338.52		90.4	44.9-132			MRL-3, Q-2, J
Benzo(a)anthracene	29.452	34	"	33.852		87.0	43.9-131			MRL-3, Q-2, J
Chrysene	30.129	34	"	33.852		89.0	42.1-129			MRL-3, Q-2, J
3,3'-Dichlorobenzidine	225.12	340	"	338.52		66.5	10-107			MRL-3, Q-2, J
Di-n-octylphthalate	292.15	340	"	338.52		86.3	27.6-141			MRL-3, Q-2, J
Benzo(b)fluoranthene	30.129	34	"	33.852		89.0	31.3-130			MRL-3, Q-2, J
Benzo(k)fluoranthene	35.545	34	"	33.852		105	37.5-124			MRL-3
Benzo(a)pyrene	29.113	34	"	33.852		86.0	30-122			MRL-3, Q-2, J
Indeno (1,2,3-cd) pyrene	22.343	34	"	33.852		66.0	17.5-138			MRL-3, Q-2, J
Dibenz(a,h)anthracene	24.035	34	"	33.852		71.0	10-173			MRL-3, Q-2, J

Semi Volatile Organics (SVOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1301105 - E 3545A Modified										
MRL Verification (1301105-PS1)				Prepared: 01/25/13 Analyzed: 02/05/13						
Benzo(g,h,i)perylene	23.020	34	ug/kg dry	33.852		68.0	10-131			MRL-3, Q-2, J
2-Chlorophenol	236.29	340	"	338.52		69.8	35.1-116			MRL-3, Q-2, J
2-Methylphenol	212.25	340	"	338.52		62.7	24.3-116			MRL-3, Q-2, J
(3-and/or 4-)Methylphenol	213.95	340	"	338.52		63.2	25.2-122			MRL-3, Q-2, J
2-Nitrophenol	229.18	340	"	338.52		67.7	40.7-115			MRL-3, Q-2, J
Phenol	249.83	340	"	338.52		73.8	34.3-118			MRL-3, Q-2, J
2,4-Dimethylphenol	54.164	340	"	338.52		16.0	10-96			MRL-3, Q-2, J
2,4-Dichlorophenol	242.38	340	"	338.52		71.6	44-116			MRL-3, Q-2, J
2,4,6-Trichlorophenol	246.78	340	"	338.52		72.9	46-123			MRL-3, Q-2, J
2,4,5-Trichlorophenol	244.75	340	"	338.52		72.3	39.3-130			MRL-3, Q-2, J
4-Chloro-3-methylphenol	243.06	340	"	338.52		71.8	46.8-120			MRL-3, Q-2, J
2,4-Dinitrophenol	68.043	340	"	677.05		10.0	10-83.8			MRL-3, Q-2, J
2-Methyl-4,6-dinitrophenol	143.53	340	"	338.52		42.4	24-134			Q-2, MRL-3, J
Pentachlorophenol	194.99	340	"	338.52		57.6	37-135			MRL-3, Q-2, J
4-Nitrophenol	231.89	340	"	338.52		68.5	36.3-138			MRL-3, Q-2, J
2,3,4,6-Tetrachlorophenol	199.05	340	"	338.52		58.8	48.4-129			MRL-3, Q-2, J

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix
Q-2	Result greater than MDL but less than MRL.
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QM-6	Matrix Spike Recovery less than 10%

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DATA USABILITY REPORT

DATE: April 9, 2013

SUBJECT: Southeastern Wood Preserving Site
Canton, Madison County, Mississippi

FROM: Mike Profit, Project Manager
Black & Veatch Special Projects Corp.

TO: Shelby Johnston, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 13-0191

SAMPLE DATE: January 23 and 24, 2013

SAMPLES:

SWP3232_0.5	SWP3235_0.5	SWP3230_0.5
SWP3231_0.5	SWP3227_0.5	SWP3229_0.5
SWP3234_0.5	SWP93227_0.5	SWP3236_0.5
SWP3233_0.5	SWP3226_0.5	SWP3228_0.5

OVERVIEW:

This data usability report evaluates the quality of the data and the implication of a qualifier applied to the sample result. The U.S. Environmental Protection Agency (US EPA) Region 4 Science and Ecosystem Support Division (SESD) applied qualifiers to the sample results in accordance with the criteria and parameters listed in the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review, September 2011, USEPA Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services Organic Analyses, Revision 3.1, August 2008,* and the *U.S. Environmental Protection Agency Region 4 Science and Ecosystem Support Division Office of Quality Assurance Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.*

The samples were evaluated based on data sources, documentation, analytical methods and detection limits, completeness, comparability, representativeness, precision, and accuracy in accordance with specifications outlined in the *U.S. Environmental Protection Agency Guidance for Data Usability in Risk Assessment (Part A), April 1992.*

Black & Veatch Special Projects Corp. (Black & Veatch) received from EPA Region 4 SESD, Project Number 13-0191 containing the qualified analytical results for the samples collected at the Southeastern Wood Preserving Site in Canton, Mississippi. Included in Project Number 13-0191 were 12 soil samples. The samples were analyzed for dioxins.

MAJOR ISSUES

Dioxins

None.

MINOR ISSUES

Dioxins

The reported sample concentration was less than the lowest standard on the calibration curve for 1,2,3,7,8,9-hexachlorodibenzodioxin, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,7,8-pentachlorodibenzodioxin, 2,3,4,7,8-pentachlorodibenzofuran, 1,2,3,7,8-pentachlorodibenzofuran, 1,2,3,7,8,9-hexachlorodibenzofuran, and 1,2,3,4,7,8-hexachlorodibenzofuran in some samples. The results were qualified "J," and should be considered estimated.

Sample results for octachlorodibenzodioxin and octachlorodibenzofuran were greater than the highest standard on the calibration curve. The PE sample recovery scored as action high and in some samples the internal standard was outside the method control limits. The affected sample results were qualified "J," estimated.

The PE sample recovery for 2,3,4,6,7,8-hexachlorodibenzofuran scored as warning-high. Associated sample results were qualified "J," and should be considered estimated.

The PE sample recovery scored as action high for 1,2,3,4,6,7,8-heptachlorodibenzodioxin, 1,2,3,4,6,7,8-heptachlorodibenzofuran, 1,2,3,4,7,8,9-heptachlorodibenzofuran, octachlorodibenzodioxin, and octachlorodibenzofuran. The associated sample results were qualified "J," estimated.

The sample results for TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98), TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98), and TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005) were reported with a "J" qualifier and should be considered estimated, because the estimated quantitation for one or more constituents comprising of greater than 10% of the total.

The instrument was not calibrated for all constituents of the total concentration results for heptachlorodibenzodioxin (total), heptachlorodibenzofuran (total), hexachlorodibenzodioxin (total), hexachlorodibenzofuran (total), pentachlorodibenzodioxin (total), pentachlorodibenzofuran (total), tetrachlorodibenzodioxin (total), and tetrachlorodibenzofuran (total). The results were qualified "J,"

estimated, if detected, and "UJ," estimated at the minimum reporting limit (MRL), if non-detect.

Octachlorodibenzofuran and 1,2,3,4,6,7,8-heptachlorodibenzofuran were detected in the performance evaluation sample (PES) sample (treated as a method blank sample for validation purposes) at concentrations which impacted the MRLs. The samples are reported as non-detects due to the elevated MRL. Some sample results for octachlorodibenzofuran were qualified "UJ," estimated at the MRL. All other sample results were qualified "U," non-detect.

The estimated maximum possible concentration (EMPC) was reported for some non-detect sample results for 1,2,3,4,7,8-hexachlorodibenzodioxin, 1,2,3,6,7,8-hexachlorodibenzofuran, 1,2,3,7,8,9-hexachlorodibenzofuran, 1,2,3,4,7,8,9-heptachlorodibenzofuran, 1,2,3,4,7,8-hexachlorodibenzofuran, 1,2,3,7,8,9-hexachlorodibenzodioxin, 2,3,4,6,7,8-hexachlorodibenzofuran, 2,3,7,8-tetrachlorodibenzofuran, 1,2,3,6,7,8-hexachlorodibenzodioxin, 1,2,3,7,8-pentachlorodibenzodioxin, 2,3,4,7,8-pentachlorodibenzofuran, and 1,2,3,7,8-pentachlorodibenzofuran.

The internal standard was outside the method control limits for 2,3,7,8-tetrachlorodibenzofuran. The associated sample results were qualified "UJ," estimated at the MRL.

Field Duplicate

Field duplicate SWP93227_0.5 was collected for parent sample SWP3227_0.5. The calculable relative percent differences (RPDs) are represented below:

Compound	RPD
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	9.3
1,2,3,4,6,7,8-Heptachlorodibenzofuran	9.8
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8.0
1,2,3,4,7,8-Hexachlorodibenzodioxin	25.6
1,2,3,4,7,8-Hexachlorodibenzofuran	**31.4**
1,2,3,6,7,8-Hexachlorodibenzodioxin	6.1
1,2,3,6,7,8-Hexachlorodibenzofuran	**32.6**
1,2,3,7,8,9-Hexachlorodibenzodioxin	17.7
1,2,3,7,8,9-Hexachlorodibenzofuran	**43.9**
2,3,4,6,7,8-Hexachlorodibenzofuran	25.2
Heptachlorodibenzodioxin (Total)	6.5
Heptachlorodibenzofuran (Total)	6.5
Hexachlorodibenzodioxin (Total)	8.7
Hexachlorodibenzofuran (Total)	12.2
Octachlorodibenzodioxin	17.3
Octachlorodibenzofuran	13.3

Pentachlorodibenzodioxin (Total)	**41.0**
Pentachlorodibenzofuran (Total)	24.4
TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	18.6
TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	18.6
TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	18.2
Tetrachlorodibenzodioxin (Total)	**73.2**
Tetrachlorodibenzofuran (Total)	8.0

The RPDs greater than the acceptable limit for organics (30%) are represented in bold text and should not be used as duplicates.

NOTES

The analytical data included for project number 13-0191 are of sufficient quality and are deemed acceptable for their intended use.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0191, Southeastern Wood Preserving - Reported by Denise Goddard

April 8, 2013

4SESD-MTSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 13-0191, Southeastern Wood Preserving
Superfund Remedial

FROM: Denise Goddard
Quality Assurance Section Chemist

THRU: Marilyn Maycock, Chief
Quality Assurance Section

TO: Shelby Johnston

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:	Method Used:
Dioxin (DIO)	
Dioxin	Contract SOW (Soil)

Report Narrative for Project: 13-0191
Site Name: Southeastern Wood Preserving, Canton, MS
Case 43286, ELEMENT Sample Nos. C130701-01 through C130702-12
C130702-01, 02 (PES only)

Dioxin Analysis: Analytical Resources, Inc., Tukwila, WA

The ESAT Work Team reviewed data for the project cited above consisting of twelve (12) soil samples analyzed per Statement of Work DLM02.2 for dioxins and furans. The samples were collected on 01/23/13 and 01/24/13, and received by the laboratory on 02/06/13. The final data package was received by the USEPA Quality Assurance Section, Region 4 SESD/MTSB on 03/04/13. The analytical results were reported in one sample delivery group (SDG) by the laboratory. In addition to the field samples, the laboratory also analyzed two performance evaluation samples (PES) for evaluating the laboratory's performance with using the method.

A Stage 4 validation consisting of a manual review (S4VM) was performed on the dioxin samples submitted for this case. The data package presents acceptable technical performance with qualifications.

Certain results among these data are reported as not detected at an elevated detection limit. In general, this may occur when method blank contamination is evident, or when one or more of the qualitative identification criteria have not been met. In the event of method blank contamination, detection limits may be raised as much as five times the level of contamination in order to discount false positive results. If qualitative identification criteria are not met for an analyte, an estimated maximum possible concentration (EMPC) value is reported, and is qualified as a non-detect ("U" flag).

The method reporting limit (MRL), as defined elsewhere in this document, is used in dioxin/furan analyses to report the analyte concentration which corresponds to the lowest quantitative point on the calibration curve. Any positive results less than this value are qualified as estimated ("J" flag). The value reported for a 2,3,7,8-substituted PCDD/PCDF analyte that is not detected is either an estimated detection limit (EDL), which is calculated from the instrument signal to system noise ratio, or an EMPC value as described above, qualified with a "U" flag.

Toxic equivalent quantities (TEQ) have been reported for these data which have been derived from the most recent set of toxic equivalent factors (TEF). For mammalian TEQs, these factors were published in 2005 by the World Health Organization (WHO). In the case of the TEQs for birds and fish, the factors were published by WHO in 1998.

Toxic equivalent values for non-detected results are determined using the EDL or the EMPC as a proxy value. Thus a sample with non-detected results for all PCDD/PCDF congeners will still have a positive TEQ value. The TEQ is qualified as estimated "J" when the sum of the contributions from the various PCDD/PCDF analytes that

are themselves reported as either estimated "J" (D-5) or non-detect "U" (D-5) exceeds 10% of the TEQ total. If no positive results are present for any of the 2,3,7,8 congeners, the TEQ is reported as not detected with an estimated detection limit "UJ".

The results for all "Total" congeners are estimated "J" (Q-3) since the instrumentation is not calibrated for non 2,3,7,8- congeners.

The laboratory scored within warning limits for all congeners in the PES spike except for the following:

2,3,4,6,7,8-HxCDF was scored as warning high and all positive results for this congener were qualified "J" (CLP26);

1,2,3,4,6,7,8- and 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,6,7,8-HpCDD, OCDD, and OCDF were scored as action high. All positive results for these congeners were qualified "J" (CLP28).

In the PES blank, congeners; 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,6,7,8-HpCDD, OCDD, and OCDF were scored action high because they contained positive detects above the reporting limit. These four congeners were treated as method blank contaminants during data qualification. The following samples and congeners were reported and qualified as non-detects "U" (B-4) with an elevated reporting limit: OCDF in samples C130701-01 and 02; and 1,2,3,4,6,7,8-HpCDF and OCDF in sample C130701-11.

The results for OCDD exceeded the upper limit of the initial calibration range in samples C130701-04, 05, 06, 07, 08, 09, 10, and 12. These OCDD results were qualified "J" (CLP02) in these samples. The method does not require the laboratory to perform a dilution for this congener.

The results for OCDF exceeded the upper limit of the initial calibration range in samples C130701-04, 05, and 09. These OCDF results were qualified "J" (CLP02) in these samples. The method does not require the laboratory to perform a dilution for this congener.

The percent recovery of the labeled 2,3,7,8-TCDF was less than the lower quality control limit in sample C130701-12. The non-detected result for 2,3,7,8-TCDF was qualified "J" (QI-1).

The percent recovery of the labeled OCDD was greater than the upper quality control limit in sample C130701-05. The positive detects for OCDD and OCDF were qualified "J" (QI-1).

All data qualification factors are explained by the Region 4 - specific qualifier definitions which are included elsewhere in this report. Further details are provided in the complete data review report, which is on file in the

Region 4 SESD Records Center.

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cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 13-0015
Project: 13-0191, Southeastern Wood Preserving - Reported by Denise Goddard

SAMPLES INCLUDED IN THIS REPORT

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
SWP3232_0.5	C130701-01		7437	Surface Soil	1/23/13 14:15
SWP3231_0.5	C130701-02		7434	Surface Soil	1/23/13 13:30
SWP3234_0.5	C130701-03		7440	Surface Soil	1/24/13 10:10
SWP3233_0.5	C130701-04		7435	Surface Soil	1/23/13 14:15
SWP3235_0.5	C130701-05		7441	Surface Soil	1/24/13 10:40
SWP3227_0.5	C130701-06		7430	Surface Soil	1/23/13 09:15
SWP93227_0.5	C130701-07		7436	Surface Soil	1/23/13 09:15
SWP3226_0.5	C130701-08		7429	Surface Soil	1/23/13 09:45
SWP3230_0.5	C130701-09		7433	Surface Soil	1/23/13 13:10
SWP3229_0.5	C130701-10		7432	Surface Soil	1/23/13 12:05
SWP3236_0.5	C130701-11		7438	Surface Soil	1/24/13 11:10
SWP3228_0.5	C130701-12		7431	Surface Soil	1/23/13 10:25

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-4	Level in blank impacts MRLs.
CLP01	Concentration reported is less than the lowest standard on calibration curve
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP18	Estimated Maximum Possible Concentration (EMPC) Reported
CLP26	PE sample recovery scored as warning-high.
CLP28	PE sample recovery scored as action high.
D-5	Estimated quantitation for one or more individual constituents comprising >10% of the total.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-3	Instrument not calibrated for all constituents of the total concentration result.
QI-1	Internal standard was outside of method control limits.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3232_0.5 **Lab ID:** C130701-01 **MD No:**
Station ID: SWP3232 **Matrix:** Surface Soil **D No:** 7437 ARI

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		2/13/13	2/27/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	440	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1100	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	18	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	4.2	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	34		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	28		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	18	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	8.9	J, CLP01	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	3.5	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	2.0	U	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.0	U	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	24	J, CLP26	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	16		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.4	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.8	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	980	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	2200	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	180	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	880	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	4500	J, CLP28	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1300	U, B-4	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	17	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	320	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	42	J, D-5	ng/kg dry	42	2/13/13	2/27/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	34	J, D-5	ng/kg dry	34	2/13/13	2/27/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	37	J, D-5	ng/kg dry	37	2/13/13	2/27/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3232_0.5

Lab ID: C130701-01

MD No:

Station ID: SWP3232

Matrix: Surface Soil

D No: 7437 ARI

Date Collected: 1/23/13 14:15

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
41903-57-5	Tetrachlorodibenzodioxin (Total)	17	J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	78	J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3231_0.5 **Lab ID:** C130701-02 **MD No:**
Station ID: SWP3231 **Matrix:** Surface Soil **D No:** 7434 ARI

Date Collected: 1/23/13 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	370	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	490	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	17	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.9	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	14	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	19		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	9.5	J, CLP01	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	9.0	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.6	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.5	J, CLP01	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.8	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	13	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	4.3	J, CLP01	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.95	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.4	U, CLP18	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	860	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	1200	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	120	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	330	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	4100	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	1000	U, B-4	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	8.7	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	140	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	17	J, D-5	ng/kg dry	17	2/13/13	2/26/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	21	J, D-5	ng/kg dry	21	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3231_0.5

Lab ID: C130701-02

MD No:

Station ID: SWP3231

Matrix: Surface Soil

D No: 7434 ARI

Date Collected: 1/23/13 13:30

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
41903-57-5	Tetrachlorodibenzodioxin (Total)	3.9	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	38	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3234_0.5 **Lab ID:** C130701-03 **MD No:**
Station ID: SWP3234 **Matrix:** Surface Soil **D No:** 7440 ARI

Date Collected: 1/24/13 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		2/13/13	2/02/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	750	J, CLP28	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	960	J, CLP28	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	26	U, CLP18	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	3.0	U	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	28	U, CLP18	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	34	U, CLP18	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	19		ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	11		ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	4.9	U, CLP18	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	1.7	U	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.9	U	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	19	U, CLP18	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	9.3	J, CLP01	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.95	U	ng/kg dry	2.0	2/13/13	2/02/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.8	U	ng/kg dry	2.0	2/13/13	2/02/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1900	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	2600	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	210	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	660	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	8600	J, CLP28	ng/kg dry	20	2/13/13	2/02/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	2400	J, CLP28	ng/kg dry	20	2/13/13	2/02/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	9.1	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	160	J, Q-3	ng/kg dry	10	2/13/13	2/02/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	34	J, D-5	ng/kg dry	34	2/13/13	2/02/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	28	J, D-5	ng/kg dry	28	2/13/13	2/02/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	38	J, D-5	ng/kg dry	38	2/13/13	2/02/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3234_0.5

Lab ID: C130701-03

MD No:

Station ID: SWP3234

Matrix: Surface Soil

D No: 7440 ARI

Date Collected: 1/24/13 10:10

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.2	J, Q-3	ng/kg dry	2.0	2/13/13	2/02/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	16	J, Q-3	ng/kg dry	2.0	2/13/13	2/02/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3233_0.5 **Lab ID:** C130701-04 **MD No:**
Station ID: SWP3233 **Matrix:** Surface Soil **D No:** 7435 ARI

Date Collected: 1/23/13 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	15000	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	13000	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	360	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	50		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	120		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	500		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	45		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	110		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	23		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	9.4	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.8	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	110	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.8	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.88	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.4	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	42000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	52000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	3100	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	7300	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	180000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	60000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	92	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	420	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	240	J, D-5	ng/kg dry	240	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	250	J, D-5	ng/kg dry	250	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3233_0.5 **Lab ID: C130701-04** **MD No:**

Station ID: SWP3233 **Matrix: Surface Soil** **D No: 7435 ARI**

Date Collected: 1/23/13 14:15

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	460	J, D-5	ng/kg dry	460	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.3	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	18	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3235_0.5 **Lab ID:** C130701-05 **MD No:**
Station ID: SWP3235 **Matrix:** Surface Soil **D No:** 7441 ARI

Date Collected: 1/24/13 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	27		%		2/13/13	2/27/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	31000	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	30000	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1000	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	120		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	300		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	1200		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	130		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	270		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	51		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	35		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	4.2	J, CLP01	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	280	J, CLP26	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	6.0	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.5	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.6	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	78000	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	120000	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	6200	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	16000	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	310000	J, CLP02, CLP28, QI-1	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	98000	J, CLP02, CLP28, QI-1	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	190	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	740	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	540	J, D-5	ng/kg dry	540	2/13/13	2/27/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	570	J, D-5	ng/kg dry	570	2/13/13	2/27/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3235_0.5

Lab ID: C130701-05

MD No:

Station ID: SWP3235

Matrix: Surface Soil

D No: 7441 ARI

Date Collected: 1/24/13 10:40

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	1000	J, D-5	ng/kg dry	1000	2/13/13	2/27/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	13	J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	36	J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3227_0.5 **Lab ID:** C130701-06 **MD No:**
Station ID: SWP3227 **Matrix:** Surface Soil **D No:** 7430 ARI

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	5100	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3900	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	120	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	17		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	43		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	160		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	18		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	36		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	6.4	J, CLP01	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	5.0	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.6	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	45	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	5.1	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.3	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.4	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	15000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	15000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1100	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	2300	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	58000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	14000	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	64	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	180	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	83	J, D-5	ng/kg dry	83	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	83	J, D-5	ng/kg dry	83	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3227_0.5

Lab ID: C130701-06

MD No:

Station ID: SWP3227

Matrix: Surface Soil

D No: 7430 ARI

Date Collected: 1/23/13 9:15

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	150	J, D-5	ng/kg dry	150	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.8	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	13	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP93227_0.5 **Lab ID:** C130701-07 **MD No:**
Station ID: SWP3227 **Matrix:** Surface Soil **D No:** 7436 ARI

Date Collected: 1/23/13 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	5600	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	4300	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	130	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	22		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	59		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	170		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	25		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	43		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	10		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	8.4	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.2	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	58	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	8.2	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.1	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.9	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	16000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	16000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1200	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	2600	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	69000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	16000	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	97	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	100	J, D-5	ng/kg dry	100	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	100	J, D-5	ng/kg dry	100	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP93227_0.5 **Lab ID:** C130701-07 **MD No:**
Station ID: SWP3227 **Matrix:** Surface Soil **D No: 7436 ARI**

Date Collected: 1/23/13 9:15

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	180	J, D-5	ng/kg dry	180	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.3	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	12	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Project: 13-0191, Southeastern Wood Preserving - Reported by Denise Goddard

Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3226_0.5 **Lab ID:** C130701-08 **MD No:**
Station ID: SWP3226 **Matrix:** Surface Soil **D No:** 7429 ARI

Date Collected: 1/23/13 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	11000	J, CLP28	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	9200	J, CLP28	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	270	J, CLP28	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	47		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	120		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	350		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	43		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	86		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	22		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	17		ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.7	U, CLP18	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	110	J, CLP26	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	7.6	U, CLP18	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.2	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.0	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	32000	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	35000	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	2500	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	5200	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	110000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	34000	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	140	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	340	J, Q-3	ng/kg dry	9.9	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	190	J, D-5	ng/kg dry	190	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	200	J, D-5	ng/kg dry	200	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3226_0.5 **Lab ID: C130701-08** **MD No:**

Station ID: SWP3226 **Matrix: Surface Soil** **D No: 7429 ARI**

Date Collected: 1/23/13 9:45

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	350	J, D-5	ng/kg dry	350	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	6.3	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	18	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3230_0.5 **Lab ID:** C130701-09 **MD No:**
Station ID: SWP3230 **Matrix:** Surface Soil **D No:** 7433 ARI

Date Collected: 1/23/13 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	15000	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	14000	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	480	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	76		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	160		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	540		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	66		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	130		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	27	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	20		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	7.5	J, CLP01	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	160	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.2	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	1.1	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2.4	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	40000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	58000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	3300	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	8100	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	150000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	54000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	140	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	470	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	270	J, D-5	ng/kg dry	270	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	290	J, D-5	ng/kg dry	290	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3230_0.5

Lab ID: C130701-09

MD No:

Station ID: SWP3230

Matrix: Surface Soil

D No: 7433 ARI

Date Collected: 1/23/13 13:10

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	500	J, D-5	ng/kg dry	500	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	4.2	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	26	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3229_0.5 **Lab ID:** C130701-10 **MD No:**
Station ID: SWP3229 **Matrix:** Surface Soil **D No:** 7432 ARI

Date Collected: 1/23/13 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	25		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	7700	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	6600	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	210	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	35	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	62		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	260		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	30		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	66	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	16	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	12		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	2.2	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	61	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	3.8	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.94	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.4	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	23000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	26000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1900	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	4000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	83000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	27000	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	77	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	230	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	130	J, D-5	ng/kg dry	130	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	140	J, D-5	ng/kg dry	140	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3229_0.5 **Lab ID: C130701-10** **MD No:**

Station ID: SWP3229 **Matrix: Surface Soil** **D No: 7432 ARI**

Date Collected: 1/23/13 12:05

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	240	J, D-5	ng/kg dry	240	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	1.3	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	13	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3236_0.5 **Lab ID:** C130701-11 **MD No:**
Station ID: SWP3236 **Matrix:** Surface Soil **D No:** 7438 ARI

Date Collected: 1/24/13 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		2/13/13	2/27/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	850	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	220	U, B-4	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	17	J, CLP28	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	13	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	6.2	J, CLP01	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	38		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	8.0	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	34		ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1.7	J, CLP01	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	4.5	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.6	U	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	7.1	U, CLP18	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	1.7	U	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	0.81	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	1.0	U	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	1400	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	520	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	260	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	210	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	7500	J, CLP28	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	410	U, J, B-4	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	21	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	55	J, Q-3	ng/kg dry	10	2/13/13	2/27/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	19	J, D-5	ng/kg dry	19	2/13/13	2/27/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	20	J, D-5	ng/kg dry	20	2/13/13	2/27/13	CL DLM02.2
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	30	J, D-5	ng/kg dry	30	2/13/13	2/27/13	CL DLM02.2

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D.A.R.T. Id: 13-0015
Project: 13-0191, Southeastern Wood Preserving - Reported by Denise Goddard

Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3236_0.5 **Lab ID:** C130701-11 **MD No:**
Station ID: SWP3236 **Matrix:** Surface Soil **D No: 7438 ARI**

Date Collected: 1/24/13 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
41903-57-5	Tetrachlorodibenzodioxin (Total)	0.81	U, J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	5.1	J, Q-3	ng/kg dry	2.0	2/13/13	2/27/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving **Contract Lab Case: 43286**

Sample ID: SWP3228_0.5 **Lab ID:** C130701-12 **MD No:**
Station ID: SWP3228 **Matrix:** Surface Soil **D No:** 7431 ARI

Date Collected: 1/23/13 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	26		%		2/13/13	2/26/13	CL DLM02.2
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzodioxin	5700	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	5400	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	170	J, CLP28	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzodioxin	26		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	66		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzodioxin	210		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	28		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzodioxin	55		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	11		ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
40321-76-4	1,2,3,7,8-Pentachlorodibenzodioxin	9.4	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1.7	U	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	64	J, CLP26	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2.9	U, CLP18	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
1746-01-6	2,3,7,8-Tetrachlorodibenzodioxin	2.2	U	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	6.2	U, J, QI-1	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
37871-00-4	Heptachlorodibenzodioxin (Total)	15000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
38998-75-3	Heptachlorodibenzofuran (Total)	21000	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
34465-46-8	Hexachlorodibenzodioxin (Total)	1300	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
55684-94-1	Hexachlorodibenzofuran (Total)	3300	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
3268-87-9	Octachlorodibenzodioxin	59000	J, CLP02, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
39001-02-0	Octachlorodibenzofuran	22000	J, CLP28	ng/kg dry	20	2/13/13	2/26/13	CL DLM02.2
36088-22-9	Pentachlorodibenzodioxin (Total)	51	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
30402-15-4	Pentachlorodibenzofuran (Total)	170	J, Q-3	ng/kg dry	10	2/13/13	2/26/13	CL DLM02.2
R4-0428	TEQ (Avian Toxic. Equiv. Value, WHO TEQ-98)	120	J, D-5	ng/kg dry	120	2/13/13	2/26/13	CL DLM02.2
R4-0429	TEQ (Fish Toxic. Equiv. Value, WHO TEQ-98)	120	J, D-5	ng/kg dry	120	2/13/13	2/26/13	CL DLM02.2

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Dioxin

Project: 13-0191, Southeastern Wood Preserving

Contract Lab Case: 43286

Sample ID: SWP3228_0.5

Lab ID: C130701-12

MD No:

Station ID: SWP3228

Matrix: Surface Soil

D No: 7431 ARI

Date Collected: 1/23/13 10:25

CAS Number	*Analyte*	*Results*	*Qualifiers*	*Units*	*MRL*	*Prepared*	*Analyzed*	*Method*
R4-0430	TEQ (Mammalian Toxic. Equiv. Value, WHO TEQ-2005)	200	J, D-5	ng/kg dry	200	2/13/13	2/26/13	CL DLM02.2
41903-57-5	Tetrachlorodibenzodioxin (Total)	2.2	U, J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2
30402-14-3	Tetrachlorodibenzofuran (Total)	6.5	J, Q-3	ng/kg dry	2.0	2/13/13	2/26/13	CL DLM02.2