2015 DATA EVALUATION REPORT

REVISION 0

Cape Fear Wood Preserving Superfund Site Fayetteville, Cumberland County, North Carolina

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Acronyms and Abbreviations

%RE	percent Reference Emitter
3-D	3-dimensional
asl	above sea level
API	American
ASTM	American Society for Testing and Materials
bls	below land surface
Black & Veatch	Black & Veatch Special Projects Corp.
CCA	copper chromium arsenic
CMZ	contaminated media zone
COC	contaminants of concern
CSM	Conceptual Site Model
cy	cubic yards
Dakota	Dakota Technologies, Inc.
DNAPL	dense non-aqueous phase liquid
DPT	direct push technology
EPA	U.S. Environmental Protection Agency
EVS	Environmental Visualization Software
^{O}F	Fahrenheit
FSP	Field Sampling Plan
ft	feet/foot
Geosyntec	Geosyntec Consultants of NC, PC
g/cc	grams per cubic centimeter
GWQS	Groundwater Quality Standards
HRSC	high resolution site characterization
IMAC	Interim Maximum Allowable Concentrations
LIF	laser induced fluorescence
LTTD	low-temperature thermal desorption
LTRA	Long Term Response Action
µg/kg	micrograms per kilogram
µg/L	microgram per liter
mg/L	milligram/liter
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
NC	North Carolina
NC 2L	North Carolina Groundwater Quality Standards
NCDENR	North Carolina Department of Environment and Natural Resources
MNA	monitored natural attenuation

mV	millivolts
O&M	Operations and Maintenance
PAH	polycyclic aromatic hydrocarbon
PFS	Pore fluid saturation
POTW	publicly-owned treatment works
PSRG	Preliminary Soil Remediation Goal
PWC	Public Works Commission
QAPP	Quality Assurance Project Plan
R^2	coefficient of determination
RA	Remedial Action
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
SESD	Science and Ecosystem Support Division
SPLP	Synthetic Precipitation Leaching Procedure
S/S	solidification/stabilization
SVOC	semi-volatile organic compounds
TarGOST®	Tar-specific Green Optical Screening Tool
WRS	WRS Infrastructure & Environment, Inc.

1.0 Introduction

Black & Veatch Special Projects Corp (Black & Veatch), with support from Dakota Technologies, Inc. (Dakota), Cascade Drilling, and Geosyntec Consultants of NC, PC (Geosyntec) conducted supplemental dense non-aqueous phase liquid (DNAPL) investigation work at the Cape Fear Wood Preserving Site in Fayetteville, North Carolina (NC) from December 7 through 13, 2015. Investigative technologies utilized during the work included Tar-specific Green Optical Screening Tool (TarGOST®), direct push technology (DPT), and rotosonic drilling. This field work is supplemental to prior TarGOST® and DPT investigations conducted in 2009, and a soil boring investigation in 2013. The results from the prior TarGOST® investigation were included in the report "NAPL Investigation Report -2009", hereafter referred to as the NAPL Report.

As part of the 2015 investigation work, confirmation soil borings were collected adjacent to select TarGOST® locations for direct comparison to the DNAPL response on the TarGOST® logs. Sonic borings were also advanced in the area to collect subsurface soil samples for further visual confirmation of TarGOST® results and for collection of subsurface soil samples for analytical analysis.

Additional work conducted during the 2015 supplemental investigation included: (a) collection of subsurface soil samples for laboratory analysis of total and leachable semi-volatile organic compounds (SVOCs); (b) collection of subsurface soil samples for grain size analysis; (c) collection of DNAPL impacted soil samples for residual soil saturation testing; and (d) collection of DNAPL impacted soil samples to determine the product density, absolute viscosity, and free product mobility of the site-specific DNAPL.

1.1 SITE BACKGROUND AND HISTORY

The Site is located at 1219 South Reilly Road, Fayetteville, Cumberland County, North Carolina, on the western side of Fayetteville near Highway 401. A Site location map is presented as Figure 1-1. The Site is adjacent to other industrial/commercial establishments, including a ready mix concrete company directly to the south, as well as private residences. One residential subdivision is located approximately a quarter of a mile south of the Site along Southgate Road, and a second subdivision is located slightly less than a quarter of a mile east-southeast of the Site (Figure 1-1).

Of the approximately 41 acres comprising the Site, less than 10 acres were developed by the facility. The remainder of the Site is heavily wooded with coniferous trees, and a small swampy area is located northeast of the developed area. The Site is highly disturbed in the vicinity where the plant facilities used to be located. The swampy area consists of a seasonally flooded wetland. The upland section of the Site is sandy and well-drained. The Site has undergone complete decontamination/demolition of all surface structures and remediation of surface soils.

Operations at the Site commenced in 1953 and continued until 1983. The facility produced creosote treated wood from 1953 until 1978 when demand for creosote treated products declined. Wood was then treated by a wolmanizing process using salts containing sodium dichromate, copper sulfate, and arsenic pentoxide. This treatment process is known as the chromated copper arsenate (CCA) process.

The initiation date of the CCA process is unknown, as is whether the creosote and CCA processes occurred simultaneously or in succession.

Both liquid and sludge wastes were generated by these two treatment processes. Wastes from the creosote process were pumped into a concrete sump north of the treatment unit. As liquid separated from the sludge, it was pumped into a drainage ditch that lies south of the developed portion of the Site and discharged into a diked pond southeast of the facility. Storm water runoff from the treatment yard also appears to drain into this ditch. Waste from the CCA treatment process was pumped into an unlined 36-foot (ft) square by 9-ft deep lagoon or impoundment north of the dry kiln and allowed to percolate into the ground. The historical treatment process buildings are shown on Figure 1-2, as taken from the figure in the Record of Decision (ROD).

In the summer of 1977, the Site was determined to be contaminated with constituents of coal tar and coal tar creosote. State authorities ordered the owner/operator to comply with NC law. As a result, the owner/operator changed operations to limit further releases, installed a new potable water well for a neighbor west of the Site, and removed 900 cubic yards (cy) of creosote contaminated soil from the treatment yard and the drainage ditch that parallels the railroad. This soil was subsequently transported for land spreading to property leased from Grace Parker approximately 2.5 miles south of the Site. The soil on this property was sampled as part of the Remedial Investigation (RI). Low levels of polynuclear aromatic hydrocarbons (PAHs) were detected.

Sometime between 1979 and 1980, a new closed circuit CCA plant was installed, and the old creosote and CCA facilities were decommissioned. The new CCA plant was regulated under the Resource Conservation and Recovery Act (RCRA) as a small quantity generator until 1983, when the company went out of business. The Site was subsequently abandoned until the summer of 1988, at which time Seco Investments, Inc. purchased the property.

The EPA conducted a site reconnaissance and site investigation in October 1984. Surface water, groundwater, soil, and sediment samples were collected from the northeast swamp, diked pond, lagoon, drainage ditch, and a domestic well west of the Site. PAHs, which are creosote-related compounds and the CCA metals, were detected in all samples. Consequently, the EPA conducted an emergency removal action at the Site in January and February 1985. This removal action included the following activities:

- Removal of creosote sludge from the creosote concrete sump.
- Removal of sludge from the lagoon to a depth of 7 ft, and solidification of the sludge with fly ash.
- Pumping of lagoon water into storage tanks located south of the new CCA unit.
- Additional removal of contaminated soil from the drainage ditch that parallels the railroad tracks and at the culvert near Reilly Road.
- Removal of contaminated soils from a portion of the northeast swamp and stained areas in the treatment yard.

- Backfilling eight to twelve inches of clean sand soil in excavation areas.

All contaminated soils and sludges removed were transported to the GSX hazardous waste landfill in Pinewood, South Carolina.

The NUS Corporation conducted an investigation of the Site in May and October 1985. Soil, sediment, surface water, and groundwater samples were collected. Analytical results again showed that samples were contaminated with creosote-related compounds, arsenic, chromium, and copper.

The EPA conducted a second emergency response in September 1986 when site visits revealed that vandals had shot holes in a 3,000 gallon creosote storage tank spilling approximately 500 gallons of creosote on the ground. The cleanup operation consisted of:

- Removal, solidification, and transport of approximately 10 CY of creosote-contaminated sludge to an on-site metal shed east of the new CCA unit.
- Removal and transport of the creosote storage tank to the on-site metal shed.
- Excavation and grading of the area where the creosote tank had leaked.
- Pumping of approximately 15,000 gallons of CCA wastewater from the CCA recovery sump into on-site storage tanks located south of the new CCA unit.
- Containment of the CCA recovery sump within an earthen dike.

During the late 1980's, an RI/Feasibility Study was completed for the Site. In June 1989, the ROD for the Site was finalized which specified the off-site disposal of all on-site wastes; decontamination/demolition of all structures with off-site disposal; excavation and on-site treatment of contaminated surface and subsurface soils via soil washing/flushing (or alternately low temperature treatment followed by soil washing/flushing or soil fixation/solidification/stabilization) with placement of treated soils back in the excavations; and groundwater remediation with an extraction, treatment, and discharge system.

The Remedial Action (RA) was divided into four phases. As described in the First Superfund Five-Year Review Report (North Carolina Department of Environment and Natural Resources [NCDENR], 2006), the four phases included the following:

- Phase I - Clear the Site; install an access control fence around the entire Site; empty, flush, clean, and dispose of nine storage tanks and associated piping; treat contaminated water (surface water, storage tank liquids, rinse water, water from dewatering excavation, etc.) by means of a temporary treatment facility; and remove/transport/dispose of debris/hazardous waste material (CCA crystals and solidified creosote) and asbestos-containing insulation to either a municipal landfill or a RCRA-permitted hazardous waste landfill (as appropriate).
- Phase II - Temporarily relocate the existing railroad track and then restore the railroad track following remediation of the underlying contaminated soils and removal of the spur.
- Phase III - Install the discharge pipeline to the publicly-owned treatment works (POTW); dismantle/demolish and dispose of building structures; excavate and treat contaminated soils; treat and discharge contaminated water; and backfill and restore disturbed areas.

- Phase IV - Install groundwater extraction wells, monitoring wells, and piezometers; construct groundwater treatment plant; install groundwater discharge system; and operate and maintain groundwater treatment plant.

Phase I work was conducted from July to September 1995. Phase II work was conducted from December 1995 to February 1996. Following the relocation of the existing railroad track and the removal of the underlying contaminated soils, the excavation was backfilled with clean soil brought from an off-site source and the railroad track was restored along its original route. Figure 1-1 illustrates the location of the railroad soil excavation.

The soil remediation phase was subdivided into two phases: Phase IIIA and Phase IIIB. Phase IIIA involved implementing a soil washing technology from June to September 1996. The EPA concluded that the soil washing process did not achieve the ROD's soil performance standards. Consequently, the EPA modified the remedy to low-temperature thermal desorption (LTTD), which was the contingency soil treatment specified in the 1989 ROD.

The treatment of the soils via LTTD was designated as Phase IIIB and was conducted from July 1998 to May 1999. Post-treatment soil solidification was deemed unnecessary as all the treated soils were below the performance standards for arsenic and chromium.

The 1989 ROD originally estimated 24,000 cy of soil requiring treatment. In the RA Request for Proposal package, this volume was increased to 50,000 cy. Approximately 113,000 cy of contaminated soils were eventually excavated, thermally treated, backfilled, graded, and re-vegetated. The excavation areas were shown on Excavation Survey Drawing 3 of 6 in the First Superfund Five-Year Review Report (NCDENR, 2006). According to this figure, the deepest area excavated (to approximately 13 ft below land surface [bls]) was at the southwestern side of the Site in the apparent vicinity of the former CCA unit and storage tanks for CCA wastewater and solution. Four other subsurface areas were apparently excavated to depths of approximately 6 ft bls. Figure 1-1 illustrates the location and depth of the soil excavated for LTTD treatment.

At the bottom of the largest excavation in the middle of the Site, a groundwater extraction trench/French drain was installed prior to backfilling this excavation with treated soils. The drain itself is 80 ft long approximately 25 ft below grade. Three fingers extend from the drain, one at each end of the drain and one emanating from the standpipe. These fingers were added to the French drain to increase its influence in the underlying subsurface environment. The two primary goals for installing this drain were to enhance the removal of DNAPL emanating from the west-northwest and the west-southwest side walls of the excavation and allow the elimination of a significant number of extraction wells called for in the 1990 Remedial Design (RD). The soil remediation phase did not pursue removing this DNAPL as it was below the water table and the EPA elected to deal with the DNAPL along with groundwater.

The Final RD Report for groundwater treatment (Phase IV) was submitted in August 2000. Black & Veatch procured the performance RA contractor, WRS Infrastructure & Environment, Inc. (WRS), and construction of the remedial system began in May 2001. Operations and Maintenance (O&M) activities were initiated in mid-August 2001. The EPA initiated a Long Term Response Action (LTRA) at the Site.

The LTRA remedy's primary objective was to remediate the dissolved groundwater contamination and remove the dense DNAPL present in the subsurface at the Site

The treatment system consisted of five recovery wells and ten infiltration galleries. In addition, a lift station, which feeds into the City of Fayetteville Public Works Commission (PWC) Rockfish Creek Water Reclamation Facility, was constructed on-site in the northwest corner of the Site for use during POTW discharge. However, to date there have been zero discharges to the lift station. Through December 2015, 189,419 cumulative gallons of DNAPL had been extracted from the groundwater and properly disposed.

Additional RI data collected from the Site in October 2009 estimated the total DNAPL volume remaining in the subsurface at the Site through use of a TarGOST® evaluation in conjunction with targeted soil sampling results. Based on the results of the *NAPL Investigation Report – 2009, Revision 1*, approximately 25,000 cy of soil requiring treatment remain on-site (Black & Veatch, 2010).

The EPA determined that a more aggressive remedial approach was warranted to allow the Site to transition faster to cleanup objectives and to reduce the overall risk to the community and environment. In order for monitored natural attenuation (MNA) to be a feasible long-term treatment alternative, the mass of NAPL and the adsorbed phase soil contamination must be reduced so that leachate from the source area does not serve as a significant continuing source of contaminants of concern (COC) impacts to groundwater which in turn could potentially impact downgradient receptors.

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2.0 Investigation Procedures and Scope

The primary purpose of the December 2015 investigation work was to conduct additional sonic boring and TarGOST® investigations to provide higher resolution and delineation of DNAPL distribution, particularly in proximity to the railroad tracks and South Reilly Road. The additional investigation will better define areas and volumes of subsurface soils and groundwater that will require treatment.

Results from the current (2015) investigation are intended to refine the previously estimated areas and volumes of DNAPL impacts. In particular, the results will assist in determining appropriate courses of remedial action. The practicality of any specific remedial strategy for DNAPL impacts in this area is highly dependent on the extent of the DNAPL zones, and whether the impacts extend beneath and beyond the railroad tracks, and South Reilly Road.

2.1 INVESTIGATION OBJECTIVES

The objectives of the 2015 DNAPL field investigation were as follows:

1. Advancement of soil borings using a high resolution site characterization (HRSC) TarGOST® probe to provide additional delineation and improved resolution of the DNAPL distribution in proximity to the railroad tracks, South Reilly Road, and on the Cape Fear Site;
2. Advancement of soil borings using sonic drilling to correlate the lithology and visual DNAPL observations against the TarGOST® results;
3. Quantification of DNAPL physical properties to support design basis evaluations in the FS Revision; and
4. Collection of samples for soil analytical, residual soil saturation, and leachability analyses from these borings to correlate against the lithology, visual NAPL observations on cores, and TarGOST® results to better define volumes of source area subsurface soils that will require treatment/remediation.

TarGOST® uses a downhole laser induced fluorescence sensor to delineate NAPL typically found at manufactured gas plant (MGP) and wood preserving sites. In particular, TarGOST® provides a direct response to creosote DNAPL found at the Site. A detailed description of TarGOST® theory, instrumentation, and investigation procedures is provided in the NAPL Report (Black & Veatch, 2010).

2.2 SUMMARY OF FIELD ACTIVITIES

2.2.1 TarGOST®

Thirty-three (33) new TarGOST® borings (L71 through L103) were installed in order to define the horizontal and vertical limits of DNAPL-impacts. The TarGOST® borings were advanced to a depth of approximately 35 feet below land surface (ft bls). This depth was based on previous investigations encountering a confining clay unit at approximately 35 ft bls. Based on site observations during the December 2015 field event, several TarGOST® borings were extended beyond this 35 ft bls depth: L97, L101, L102, and L103. TarGOST® logs for both the 2009 and 2015 field work are included in Attachment A.

Two duplicate TarGOST® borings were advanced as a quality control measure, in addition to serve as indicators on the distribution of NAPL in the soil matrix. Duplicate borings are referred to as 'butterfly' borings because they should have equivalent TarGOST® signatures. The paired borings are referred to as L72/L972 and L91/L991, and were advanced approximately one-ft from one another. An in-depth description of the TarGOST® equipment, procedure, and fluorescence response provided by Dakota Technologies is included in Attachment B. Attachment B also includes a description of interpretation of TarGOST® results.

During the 2009 investigation, 70 TarGOST® borings were advanced to a depth of 35 ft bls. These borings were used in the planning for the supplemental 2015 field work and were incorporated into the interpretation of the correlation data set. Figure 2-1 shows all of the 2009 and 2015 TarGOST® locations. Also on Figure 2-1, the new 2015 spur of the Aberdeen-Rockfish Railroad is visible in the aerial photograph between the railroad and South Reilly Road in front of the Cape Fear Site.

2.2.2 Sonic Drilling Confirmation Soil Sampling

A rotosonic drill rig was utilized to collect continuous subsurface soil cores for visual confirmation of TarGOST® results and to collect soil samples for laboratory analysis of site related COCs and samples to quantify the DNAPL properties and leachability. The confirmatory soil borings were advanced to help correlate the TarGOST® percent response emitter (%RE) with visual and odor indications of creosote on the soil. Continuous soil cores were collected at each soil boring and were examined and logged by an onsite geologist. Boring logs are included as Attachment C. A photographic record of the soil borings is included as Attachment D. Attachment E contains the soil sample analytical test data. A discussion of the results is presented in Section 3.0.

2.2.2.1 Semi-Volatile Organic Compound and Synthetic Precipitation Leaching Procedure Sample Collection

Soil borings were advanced adjacent to 16 TarGOST® borings; one boring from 2009 and 15 borings from 2015. Soil cores from select intervals were collected based on the results of the TarGOST® logs. Due to some past discrepancies in the depths between the TarGOST® probes and the sonic core, a protocol was established for the Cape Fear project concerning the pairing of TarGOST® data to the soil sampling data. Based on the 2009 TarGOST® logs, much of the NAPL occurs in discrete thin stringers, sometimes only a few inches thick. The TarGOST® DPT rig was mobilized to the site a few days in advance of the sonic rig to collect TarGOST® points to review and select for soil core sampling with the sonic rig. As implemented in the field, the geologist paired with the sonic rig continually emphasized the importance of obtaining as close to 100-percent recovery as possible. In addition, the geologist dedicated to the sonic rig obtained a hardcopy of the TarGOST® plot to compare in real-time to the sonic interval as the core was retrieved. Initially, upon cursory examination of the soil core, sample depths were identified.

Where stringers or layers of creosote DNAPL were identified in the core (for example, DNAPL is typically darker in color and/or yielded an oily feel), the depths on the core were adjusted to match the NAPL intervals on the TarGOST® log. This procedure was successful for cores containing visual NAPL. The

following procedures were employed in the field to pair the desired TarGOST® interval to the soil sampling interval.

- Examination of the TarGOST® plot to identify whether the desired interval was thin (only a few inches) or relatively thick (a couple of feet or more).
- Immediately upon pulling the core, measuring the core to determine the percent recovery. If there was less than 100-percent recovery (such as 8-ft for a 10-ft interval, or 80-percent), additional time was allocated to determine the missing portion.
- Examination of the column on the TarGOST logson the TarGOST® log to determine if there might be a geologic break in the core (for example, a sand-clay contact), thereby assigning a particular depth to that interval in the soil core.
- Examination of the soil core to determine any NAPL zones in the core (discoloration, oily feel, odors).
- After the soil sample was collected, a grab sample of the soil sampling interval was collected in plastic bags. The grab samples were given to the TarGOST® operator, and smeared onto the TarGOST® window on the probe at the surface when the TarGOST® rig was between borings. The results of the TarGOST® response for these samples are reviewed in this report to compare to the original TarGOST® plot. Assuming the TarGOST® response (percent RE) in the grab sample is similar to the response on the original plot, the proper depth for the TarGOST® interval/soil sample interval is likely accurate. Grab samples were also performed on higher TarGOST® responses.

At select borings, multiple samples were collected within the adjacent vertical intervals based on TarGOST plot results, if warranted. Table 2-1 provides a list of the sonic borings advanced and the samples collected from each boring. Samples were collected in accordance with the Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) Addendum, Revision 0 (Black & Veatch, 2009, 2015).

Co-located soil samples were collected for SVOC and synthetic precipitation leaching procedure (SPLP) analysis. The SVOC and SPLP samples were analyzed by the EPA Region 4 Science and Ecosystem Support Division (SESD) laboratory in Athens, Georgia. Table 2-2 and 2-3 summarize the results for the SPLP and SVOC analysis.

2.2.2.2 Geotechnical Sample Collection

Fifteen samples were collected for grain size analysis; sample intervals were determined based on field observations. Table 2-1 provides a list of the sonic borings advanced and the samples collected from each boring. Fourteen of the grain size analysis samples were collected from the same depth interval as the pore fluid saturation (PFS) analysis; this was to determine if any correlation between NAPL occurrence and lithology existed. One grain size analysis sample, from soil boring L83, was collected directly beneath a zone of NAPL in order to determine why the NAPL was not migrating. Sample collection for the remaining 14 grain size samples occurring within the same depth as the PFS analysis required collection of a minimum six inch length core. Once the select interval was removed from the soil boring core, the interval was wrapped with saran wrap to minimize core movement. The core was wrapped again with in thick poly sheeting and the ends of the core were secured with tape. Each section end of the core was labeled with the top and bottom depths, and zone of NAPL saturation was

clearly marked. The core was then placed in a cooler containing dry ice in order to minimize migration of core fluids. Shelby tubes were not used because the exact zone of NAPL would have been unidentifiable, and samples for SVOC and SPLP analysis were collected from the same interval. The one sample collected from soil boring L83 was collected in a baggie and placed in the cooler along with the core samples. This sample from L83 did not require wrapping and immediate dry ice as it was only analyzed for grain size and not pore fluid saturation.

The grain size samples were analyzed by PTS laboratory in Santa Fe Springs, California. Table 2-4 summarizes the results of the grain size analyses.

2.2.2.3 Physical Properties Sample Collection

Soil samples were collected in order to determine the NAPL physical properties to evaluate the transport and migration mechanisms of the NAPL in the subsurface, further evaluate remedial technologies, and to correlate with the TarGOST® response intervals. In addition to the soil samples collected, two discrete NAPL samples were collected from RW07 and RW08 to determine the absolute viscosity at three temperature points. Two soil samples were collected for free product mobility analysis. The free product mobility analysis applies centrifugal force to demonstrate product mobility; the analysis includes residual saturations by the Dean-Stark method, total porosity, grain and dry bulk density. Fourteen samples were collected for PFS analysis. The PFS analysis included measurement of the initial and final pore fluid saturations, total porosity, air-filled porosity, grain density, dry bulk density and moisture content.

Pore fluid saturation and free product mobility analysis required collection of a minimum six inch length core. Once the select interval was removed from the soil boring core, the interval was wrapped with saran wrap to minimize core movement. The core was wrapped again with in thick poly sheeting and the ends of the core were secured with tape. Each section end of the core was labeled with the top and bottom depths, and zone of NAPL saturation was clearly marked. The core was then placed in a cooler containing dry ice in order to minimize migration of core fluids.

The free product mobility, PFS, and the 3-point viscosity samples were analyzed by PTS laboratory in Santa Fe Springs, California. Tables 2-5 and 2-6 summarize the results of these analyses.

2.3 SUMMARY OF POST FIELD ACTIVITIES

The TarGOST® laser induced fluoresence (LIF) information, laboratory analytical results and soil boring logs were entered into C Tech Environmental Visualization System (EVS) by Geosyntec. EVS creates a visual 3-dimensional (3-D) model by utilizing a relational database with site data and interpolating the LIF information. The evaluation was performed using available data from both 2009 and the 2015 investigations. In addition to the 3-D modeling, Geosyntec also assessed potential correlations among multiple variables using R, an open-source statistical software that can analyze large datasets and provide outputs of statistical tests such as normality testing, correlations, dataset comparisons, and general summary statistics. The variables included the LIF data, the laboratory analytical results, and the NAPL characteristics. An in-depth discussion of the model is included in Attachment F of this report. 3-D figures that illustrate the volumetric extent of DNAPL are also located in Attachment F.

3.0 Investigation Findings

3.1 TARGOST® RESULTS

One of the goals at Cape Fear included making the distinction of the TarGOST® response relative to the occurrence of creosote DNAPL. Specifically, the investigation sought to determine the %RE from TarGOST® that correlates with:

(1) visually detectable residual NAPL on soils;
(2) residual saturation results from laboratory testing;
(3) soil analytical results indicative of DNAPL through residual saturation calculations; and
(4) NAPL impacted soils that are a significant leachate source.

The geology at Cape Fear atypically contains inorganic soil types void of DNAPL that florescence naturally (such as, a false positive response). Therefore, Black & Veatch corresponded with Dakota Technologies after the December 2015 field effort to refine the interpretation of the logs.

3.1.1 High TarGOST® Responses

The occurrence of DNAPL at Cape Fear is undeniable where laser induced fluorescence yielded a high TarGOST® response (meaning greater than 40%RE). For example, soil sampling and analyses within these zones reveal high SVOC concentrations where the %RE is high (see SVOC summary, Table 2-3; and TarGOST® summary, Table 2-5). This correlation is also evident on the relevant photo logs (Attachment D). Other complementary results document DNAPL in high %RE zones on the TarGOST® logs through confirmatory testing through residual saturation and mobility (Tables 2-6 and 2-7). Only the main plot of the TarGOST® outputs is needed for determination of definitive DNAPL zones (Attachment A).

3.1.2 Lower TarGOST® Responses

The lower %RE results are more problematic. First, although invisible to the naked eye, TarGOST® has the ability to detect low residual saturation amounts of DNAPL. In other words, the geologist in the field might discern a strong creosote odor depending on soil type and weather conditions, although is unable to see any DNAPL. In addition, the exact depth of DNAPL at low saturation, particularly in the narrow stringers/layers at Cape Fear, is difficult to determine in a soil core compared to the more precise depth reading of the TarGOST® log.

For the Cape Fear TarGOST® responses, %RE values between 20 and 40 can typically be better attributed to a DNAPL response, but the trend is not unqualified. Lower TarGOST® responses (between 10 to 40%RE) can represent naturally fluorescing soil or DNAPL. Given that the three peaks on the right in the callout boxes represent the individual fluorescent-only channels, the callout boxes are the best indicator of DNAPL. Therefore, Black & Veatch examined all 103 TarGOST® plots from 2009 and 2015 to choose the best examples to distinguish between DNAPL and naturally fluorescing soil. Next, Dakota Technologies provided individual callout boxes for the requested depths from the selected logs.

A total of 58 callout boxes were generated based on the color of spikes and broad peaks in the fluorescent only column on each log. In particular, based on known intervals, DNAPL in the fluorescent

only column yielded a teal color (light green to turquoise). The example on Figure TG-C (Attachment B, L71) demonstrates the teal peak on the fluorescent only column at 20 ft in a zone of known DNAPL (with the characteristic orange peak on the Main Plot). Other colors displayed along the fluorescent only column on the 103 TarGOST® plots from 2009 and 2015 included yellow to yellowish-green, and light blue to blue. These colors do not characteristically infer DNAPL, nor does teal exclusively infer NAPL at lower %RE levels. The 58 callout boxes were segregated into three primary categories (Attachment B, Figures TG-D through TG-J), as discussed below.

The patterns for definitive DNAPL are demonstrated on Attachment Figures TG-D and TG-E. The blue scatter peak should be ignored, with a focus on the three subsequent peaks. As shown in the upper right corner of each callout box, the fluorescence-only color underlies the calculated color (the color on the Main Plot). These two color boxes are the same as those on the TarGOST® logs (Attachment A). The florescence-only color is teal, and represents definitive DNAPL. In addition, the name of the boring is in the upper left black box, and the depth and %RE are provided in the black box in the lower right corner. The %RE on these examples ranged from 49 to 168%RE (which represents the response on the Main Plot).

As noted above, the Y axis represents the signal response in millivolts (mV) and represents the amount of light (photons) arriving at the detector. Attachment B, Figures TG-D and TG-E demonstrate the Y axis varies from one Callout Box to the next in some examples. However, all the DNAPL fingerprints are similar when comparing the relative strength of the florescence channels (green, orange, and blue channels). Consistent trends in these callouts that are clearly indicative of DNAPL are:

- The orange waveform signal is the highest peak and relatively large (typically greater than 20 mV)
- The red waveform signal is always higher than the green waveform

A positive fluorescence peak in conjunction with a dissimilar or reversed scatter %RE (relative to the fluorescence plot %RE) is a reliable indicator of a NAPL response in conjunction with a higher %RE and indicative callout pattern.

Other plots with a teal peak in the fluorescence-only column were questionable based on lower responses than above. Specifically, Figures TG-F and TG-G of Attachment B include similar responses as those with definitive DNAPL above, suggesting these examples are possibly DNAPL. Six of the upper nine callout boxes on Figure TG-F (Attachment B) include the typical waveform signature. Two callouts on TG-F for L17 and L43 appear to be unlikely indicators of NAPL by comparison. Similar patterns were observed in the six boxes on Figure TG-G (Attachment B). The %RE on these examples ranged from 11 to 48%RE.

When examining the fluorescence-only columns on the 103 Cape Fear logs, there were a number of peaks that were yellow to yellowish-green. Therefore, eight waveform examples of these peaks were prepared and compiled on Figures TG-H (Attachment B). As illustrated, the individual peaks in the callout boxes are different from the DNAPL signature, with green almost equal or higher than the orange

peak, with the red peak always at the weakest signal. Therefore, the yellow peaks in the fluorescence-only columns are discounted as some type of naturally fluorescing soil void of DNAPL. The %RE on these examples ranged from 14 to 31%RE.

Another pattern yielded fluorescence-only peaks that were blue to light blue (Attachment B, Figure J). The waveforms for these callouts were dissimilar to the DNAPL fingerprint established above. As with the yellow fluorescence only examples, the blue fluorescence-only signature is interpreted as naturally fluorescing soil void of DNAPL. The %RE on these examples ranged from 9 to 28%RE.

Looking at the fluorescence-only column on the 103 Cape Fear TarGOST logs, there were a number of patterns that tended to merge into one another. In particular, narrow teal bands would alternate with narrow blue bands, or the color would be washed out with the teal and blue colors merging with indistinct washed out boundaries. Therefore, by selecting exact depths for the callout boxes, better definition is provided for the fluorescence only signature (the color provided in the upper left corners of the callout boxes). Nine examples are provided on Figure TG-J (Attachment B). Six of the boxes vary significantly from the known DNAPL fingerprint, and are attributed to naturally fluorescing soil void of DNAPL. The %RE on these examples ranged from 12%RE to 21%RE. However, as indicated, three of the callouts (L83 at 34 ft, L87 at 35 ft, and L99 at 17 ft) do resemble the DNAPL signature and may represent DNAPL.

3.1.3 TarGOST® Summary

In summary, different portions of the TarGOST® logs should be examined for evidence of DNAPL zones. Where definitive zones of DNAPL are encountered, the high %RE response and orange color on the Main Plot is sufficient to immediately recognize DNAPL zones. Based on the above examples, any response on the Main Plot greater than approximately 40%RE is definitive DNAPL.

The fluorescence-only column and callout boxes /waveforms should be examined for zones of questionable DNAPL. For probable DNAPL, the fluorescence-only column should typically yield a teal color and the waveform should resemble the known DNAPL fingerprint callout. Based on the above examples, responses on the Main Plot between approximately 10%RE to 40%RE can represent possible or probable DNAPL, most likely a low level of residual DNAPL in an isolated stringer or smear.

Examples of naturally-fluorescing soil void of DNAPL include yellow to blue peaks in the fluorescence only column. Examples with these patterns included responses on the Main Plot between approximately 10%RE to 30%RE, which represent inorganic soil at Cape Fear that will fluoresce.

Finally, other patterns with washed out and/or thin alternating zones of light green and blue in the fluorescence only column can be difficult to interpret. Scrutiny of individual waveforms in these zones can lead to whether DNAPL is likely present or absent. Examples above included response range of 10%RE to 20%RE.

3.2 SOIL SAMPLE RESULTS

Soil sample results for the confirmatory soil borings provided useful correlations with TarGOST® data. Results for SPLP and SVOC analyses are included in Table 2-2 and 2-3, respectively.

3.2.1 SVOC

Forty-four samples were collected from 18 soil borings. Of the 44 samples collected for SVOC analysis, 33 contain concentrations that exceed either the ROD cleanup goal or the North Carolina (NC) Leachability Preliminary Soil Remediation Goal (PSRG) as shown for each PAH on Table 2-3. Soil contaminants exceeding the screening goals include: acenaphthene, acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, carbazole, dibenzofuran, fluoranthene, fluorene, phenthrene, phenol, pyrene, naphthalene, 2-methylnaphthalene, 1,1-biphenyl, and 2,4-dimethylphenol.

The highest naphthalene detection was at soil boring L97, 97L35.5, at a detection of 1,600 mg/kg. Sample 97L35.5 was collected from 34.5 ft to 35.5 ft bls, corresponding to the maximum %RE signal at 35.6 ft bls. This sample, 97L35.5, also has the highest total CPAH concentration and the highest total PAH concentration. A grain size analysis sample, 97L35.5, was collected from this same interval, 34.5 ft to 35.5 ft bls. The results indicate the sand content is 76%, and contains a higher content of fine sand. Directly beneath the sample interval, the soil boring (Attachment C) indicates a change from a silty sand with a noted NAPL sheen and a creosote odor to a silt with no visible signs of contamination or odors. This change in grain size noted at 35.5 ft bls could be acting as a barrier for vertical NAPL migration.

3.2.2 SPLP

SPLP testing was chosen as a potential correlation indicator for the presence of DNAPL or high levels of adsorbed COCs. The investigation also sought to determine if a correlation could be made between SPLP levels and the TarGOST® responses so that %RE levels could be used to infer where leachable source-strength soil concentration where present.

Naphthalene (and to a lesser extent methylnaphthalene) was selected as a primary indicator of downgradient desorbed creosote contamination. Naphthalene has a higher solubility and a lower soil distribution coefficient than the other creosote PAHs or significant creosote components. It will travel farther (with less retardation) than other PAHs. Hence, it typically represents the leading edge of the dissolved plume at a creosote site.

Forty-four samples were collected from 18 soil borings. All 44 samples collected for SVOC SPLP analysis contained concentrations that exceed either the NC Groundwater Quality Standards (GWQS) (NC 2L) or the NC Groundwater Interim Maximum Allowable Concentrations (IMAC) (NCDENR, 2013). SPLP contaminants exceeding the screening goals include: 1,2,4,5-tetrachlorobenzene, 2,4,6-trichlorophenol, 2,4-dichlorophenol, 2,4-dimethylphenol, 2,4-dinitrotoluene, 2-chlorophenol, 2-methynaphthalene, acenaphthene, atrazine, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-chloroethyl) ether, bis(2-ethylhexyl) phthalate, carbazole, chrysene,

dibenzo(a,h)anthracene, dibenzofuran, fluorene, hexachlorobenzene, hexachlorobutadiene, indeno (1,2,3-cd) pyrene, naphthalene, 1-methylnaphthalene, pentachlorophenol, and phenanthrene.

The highest SPLP naphthalene detection was at soil boring L86, 86L19.8, at a detection of 7,400 µg/L. Sample 86L19.8 was collected from 18.9 ft bls to 19.8 ft bls, corresponding to the maximum %RE signal (148%) at 19.41 ft bls. A grain size analysis sample, 86L19.8, was collected from this same interval, 18.9 ft bls to 19.8 ft bls. The results indicate the sand content is 74.8%, and contains a higher content of fine sand. Directly beneath the sample interval, the soil boring (Attachment C) indicates a change from a sand with a noted creosote sheen and odor to a sandy clay with a one inch stringer of NAPL at the very top of the interval. This change in grain size noted at 20 ft bls could be acting as a barrier for vertical NAPL migration.

The data indicate that each soil sample tested has the potential to leach contaminants into the groundwater. The leachate data exceeds the naphthalene NC 2L for corresponding samples that did not exceed the naphthalene NC PSRG. For example: soil sample 94L4.5 which is non-detect for naphthalene (at 4.1 U µg/kg), produced leachate in exceedance of the NC 2L for naphthalene (at 0.14 milligram/liter [mg/L]). This anomaly has no obvious explanation other than the specific soil taken from the core varied in SVOC concentration between the two samples.

3.3 GEOTECHNICAL TEST RESULTS

3.3.1 Grain Size Analysis

Fifteen soil samples were analyzed for grain sieve analyses as shown on Table 2-4. All fifteen samples were classified as a fine or medium sand with silt to clay proportions ranging from 4.5% to 41.1%). The field descriptions match these analyses well, varying from sand, silty sand, clayey sand, to sandy clay. The sand content ranges from 58.9% (82L7.9) to 95.5% (79L21) sand, with some samples containing higher content of fine sand and others containing more medium sand. Samples 83L39g and 83L37.5 were collected from two distinct zones from soil boring L83. Sample, 83L37.5, collected from the creosote saturated zone is a poorly sorted sand, containing 65.1% sand and 34.9% clay and silt. Sample, 83L39, collected directly beneath the zone of NAPL is a well sorted sand, containing 86.3% sand and 13.7% clay and silt. Sample 83L37.5 contains a fairly even distribution of medium sand, fine sand, and silt and clay; whereas sample 83L39 contains mostly fine sand. These two samples indicate that a simple change in grain size can act as a potential barrier for NAPL migration.

3.4 PHYSICAL PROPERTIES RESULTS

3.4.1 Pore Fluid Saturation, Porosity, and Density Results

Soil samples were collected from fourteen soil borings from depths ranging from 7 to 38-ft bls for physical properties testing. These samples encompassed the gamut of field soil classifications ranging from sand to sandy clay. Results for this testing are shown on Table 2-6 and the PTS Laboratory result is included in Attachment E. Photo logs of these sample locations are illustrated in Attachment D. The following tests were conducted:

1. Dry bulk soil density and sample porosity using API Method RP40;
2. Initial saturation of NAPL and groundwater in each core sample using API RP 40 Method; and
3. Free product mobility (sample centrifuge) and final residual saturation of NAPL in two core samples using ASTM D425, Dean-Stark method.

The laboratory report for these tests is summarized below:

Summary of Physical Properties Test Results						
Sample (Depth ft bls)	Dry Bulk Density (g/cc)	Total Porosity (% Vb)	Air Filled Porosity (% Vb)	Water Pore Fluid Saturation (% Pv)	NAPL Pore Fluid Saturation (% Pv)	TarGOST® %RE Range
7 - 38	1.44 – 1.78	32.8 – 45.7	5.7 – 19.4	52.1 – 80.5	1.1 – 11.1	3.4 – 129
Notes: Vb = bulk volume; Pv = pore volume; g = gram, cc = cubic centimeter						

The soil bulk density was slightly low and variable, ranging from 89.8 to 111lb/ft^3 for the various soil types. The total porosity was high (32.8% – 45.7%). This porosity range is generally in the range of a typical fine to medium sand and silty sand. The porosity values do not correlate well with the field soil classification; higher porosity does not correspond directly with higher noted silt and/or clay content. This high average porosity and lower bulk density may be indicative of a slightly disturbed sample that had become less consolidated as a result of the sonic soil collection process.

Pore fluid saturation is analyzed via Dean Stark extraction using toluene distillation (API RP 40). The results of the PFS analysis indicate the percentage of the pore space (porosity) that is occupied with water and NAPL. Specifically, the residual NAPL saturation value represents the amount of NAPL that is contained interstitially in the soil matrix where the NAPL has become immobilized by capillary forces while subject to groundwater flow conditions. Hence, this represents the amount of NAPL that will be unrecoverable without an applied force.

3.4.2 Free Product Mobility Results

Free product mobility testing was performed to evaluate the change in residual pore saturation of NAPL under an applied stress, centrifuging, as an indicator of mobile NAPL that can further migrate. Two NAPL impacted cores from confirmation soil borings next to L72 and L97, designated sample 72L27M and 97L29, were used for this analysis. Results for this testing are shown on Table 2-7 and the PTS Laboratory reports are included in Attachment E. Free product mobility testing was performed by PTS using a centrifuge at 1,000 times the force of gravity. The initial measured NAPL PFS from sample 72L27M was 9.2% and the post-centrifuge NAPL PFS was reduced to 7.9%. Water saturations changed from 60.4 to 13.7%. Sample 97L29 had a higher initial NAPL saturation and was reduced from 25% to 7.0%. Water saturations for this sample changed from 49.4 to 6.7%. All recovered NAPL was dark brown and recovered water was clear.

The NAPL saturation changed little from initial to post centrifuging in sample 72L27M, but was more pronounced from 97L29. The volume recovered is a function of the volume of both mobile (free) NAPL and residual NAPL present in the sample, along with physical characteristics of the NAPL (such as viscosity and interfacial/surface tension), and physical characteristics of the soil (such as total and effective porosity, soil type, grain angularity, sorting/compaction, etc.). Mobile NAPL would typically be easier to centrifuge out of the soil sample. Residual NAPL would be more restricted from exiting the sample due to the effects of interfacial/surface tension and capillary forces. Thus, a higher viscosity NAPL would be more difficult to extract. The very low volume of NAPL produced for this sample is most likely an indicator that the soil sample was saturated at residual levels with little mobile phase NAPL. Figures 4, 5, and 6 of Attachment F present the modeled LIF %RE along with the percent NAPL saturation results. The figures show that the results correlate fairly well if several samples are considered as outliers.

These values are significant from a total mass perspective. An initial 9.2% pore volume equates to a value of 25,532 mg-NAPL/kg of soil (11.6 g-NAPL/lb of soil): Soil NAPL concentration =

(0.092)• (0.402) ft^3-NAPL	ft^3-soil	68.0 lb-NAPL	454 g-NAPL	lb-soil	1000 mg-NAPL
ft^3-soil	98.5 lb-soil	ft^3-NAPL	lb-NAPL	0.454 kg-soil	g-NAPL

where : average soil porosity = 40.2%
average soil density = 98.5 lb/ft^3
NAPL density = 1.09*62.4 = 68.0 lb/ft^3

3.4.3 Absolute Viscosity

Separate NAPL samples were collected from recovery well RW07 and RW08 and analyzed for the following tests:

1. Three-temperature point dynamic viscosity of the NAPL mixture per American Society for Testing and Materials (ASTM) D445. Samples were analyzed at 70, 100, and 130 degrees Fahrenheit (^{O}F).
2. Fluid density at the same temperature using ASTM International Method D1481.
3. Specific gravity at the same temperature using American Petroleum Institute (API) Method RP40.

Results for this testing are shown on Table 2-8 and the PTS Laboratory result is included in Attachment E. The laboratory report for these tests is summarized below:

Summary of NAPL Characterization Test Results					
Sample ID	Matrix	Temperature (^{O}F)	Specific Gravity	Density (g/cc)	Dynamic Viscosity (centipoise)
RW07	NAPL	70	1.106	1.104	28.1
		100	1.100	1.092	11.8
		130	1.095	1.080	6.49
RW08	NAPL	70	1.109	1.107	34.1
		100	1.102	1.095	14.5
		130	1.098	1.083	7.67
Notes: g - gram, cc - cubic centimeter					

Both samples had very similar characterization results. The specific gravity and density results on both samples clearly indicate that this is a heavier than water NAPL (DNAPL) that is 28 to 34 times as viscous as water (1 centipoise). Viscosity is a measure of a materials resistance to flow. The dynamic viscosity as a function of temperature classifies the DNAPL as heavier than a standard No. 5 Fuel Oil or close to a low-viscosity hydraulic oil (for example, ISO VG 10) as depicted in Table 2-8. The implications of these results for remediation are that the DNAPL will be more difficult to extract from the formation with direct product pumping although extraction from the recovery well itself will not be difficult. The variable temperature analysis allows an extrapolation for density and viscosity for remedies that involve thermal enhanced treatment.

3.5 3-DIMENSIONAL MODELING

3-D modeling using the EVS software was employed to better visualize the potential correlation between the TarGOST® LIF information, field DNAPL visual observations, lithology, residual saturation, and SVOC and SPLP analytical results. The evaluation was performed using available data from both 2009 and the 2015 investigations. A discussion of the model setup and results are included in Attachment F.

In the electronic version (PDF) of this report, the 3-D model is interactive. To view the 4-dimensional files, download the player from C Tech's website (http://client.ctech.com/). Select "Standalone 4DIM Player Installation" (halfway down page). There is no charge to download the player and use with Geosyntec generated files. The viewer can be used by cycling through the models using the slider at the bottom; the top view can be selected quickly using the button third from the right along the bottom. Select the button in the lower left corner to bring up the scale, compass, and elevation

3.5.1 Correlation of Visual NAPL with LIF Data

Results of the correlation between the TarGOST® LIF responses and the field DNAPL observations are shown in Attachment F, Figures 1, 2, 3, 5, and 6. In addition, the photo logs in Attachment D provide both visual indications of DNAPL in the context of the geology along with correlations of LIF results from specific logs with confirmatory soil borings (L57, L72L76, L79, L80, L81, L83, and L97). Overall, the correlation between visual DNAPL observed on the confirmatory cores and the LIF results is good. Observations of "product or saturated" from confirmation logs correlates well with specific LIF zones with a LIF response between 30 %RE – 100 %RE. The EVS model results (Attachment F, Figure 5 and 6) provide a similar correlation result that is easier to visualize.

The lower %RE correlations do not reconcile as well. This is likely due background interference from the soils for %RE values lower than 40 as described in Section 3.1.2. Additional considerations when evaluating this specific correlation are:

(1) the subjective nature of the well log descriptions, noted as "product", "sheen", "stain", and "odor", and the ambiguity of interpreting these classifications below obvious visual cues;
(2) The exact soil core intervals are suspect due to typical "no recovery" zones;
(3) The nature of the DNAPL stringers (angle and direction) may not coincide with the adjacent boring. The absence of NAPL noted in L66 may be an example of this effect.

The resolution of DNAPL distribution afforded by the TarGOST® results is better than can be derived from the soil logs. However, the correlation of actual logs with the LIF has provided a useful hard correlation between the data sets. In particular, the specific borehole analysis for LIF responses verses borings as shown in the photo-logs from Attachment D shows how closely the LIF-visual observations correlate, particularly where DNAPL stringers of zones are encountered.

3.5.2 Correlation of Laboratory Residual Saturation Results with LIF Data

Correlation between the LIF responses and NAPL residual saturation results should be very good. Residual NAPL saturation results represent a hard, accurate measurement of the volume/mass of NAPL present at a specific location. Residual NAPL saturation results from fourteen borings are discussed in Sections 3.4.2 and 3.4.3. Figure 16 in Attachment F shows a graphical correlation between the LIF %RE response and the percent DNAPL saturation results. The R squared coefficient of determination result (R^2) is an indicator of how well the data fits a straight line curve. The R^2 value for the entire data set is poor, 0.22. When considering select data points, the R^2 value is very high, 0.97. Specific data points that do not fit well in the plot are L101 (at 29.3 and 33.8 ft bls), L79 (at 20.4 ft bls), and L86 (at 19.3 ft bls). The two severe outliers, L86 and L101 do not have corresponding photo-logs. The logs for these borings (Attachment A) show that a sheen and odor was present at these locations. Therefore the selectivity of the soil sample may explain the lack of correlation. Overall, the residual saturation data is considered to be a reliable indicator of DNAPL and a good correlating result for LIF data. However, the specific data must be plotted and evaluated to identify potential correlation exceptions and this method of correlation is mores suspect for narrow stingers of NAPL contamination.

3.5.3 Correlation of Laboratory SPLP Results with LIF Data and Visual DNAPL

The correlation between the spatial distribution of SPLP naphthalene results and LIF %RE data was generally good. SPLP data is provided on Table 2-2 and is shown on Figures 2, 3, 7, and 8, in Attachment F. Leachable naphthalene can be attributed to DNAPL dissolution or to desorption from adsorbed phase contamination. The correlation on the lower end of the LIF scale should be less defined as soils with only adsorbed phase contamination cannot be reliably detected with LIF and the background LIF interference typical for this sight can mask the lower %RE readings. SPLP correlations between high naphthalene SPLP results correlate better with high LIF responses as is evident when comparing the results depicted on Figure 2 and 3. A more macro level analysis is shown on Attachment F Figures 7 and 8, where the SPLP modeled contours are depicted against the observed NAPL observations from soil logs. This correlation is very strong and depicts that areas of DNAPL will produce the highest SPLP result, typically greater than 1,000 µg/L.

Attachment F Figures 13 and 14 present a statistical correlation (pairwise scatter plot) between specific PAHs and between specific PAHs and the same-depth minimum, average, and maximum LIF responses, for both adsorbed PAHs and the corresponding SPLP values. These correlations were evaluated with a non-linear R^2 value. The correlations between SVOCs themselves were very good and lend credence to the principle of using naphthalene as an indicator compound. Statistical correlations between depth-specific SPLP and SVOC results and LIF results were poor (ranging from 0.012 to 0.66). As with the residual saturation data, a closer examination of the data shows the R^2 value is being skewed by several outliers. The same consideration must be attributed that the spatial data variation and the lack of LIF resolution below 40%RE as possible reasons for the scatter in general, and these outliers in particular.

3.5.4 Correlation of Laboratory SVOC Results with LIF Data

The spatial distribution of SVOC analytical results have also correlated well with LIF results and NAPL observations. SVOC data is provided on Table 2-3 and is shown on Figures 9, and 10 in Attachment F. As discussed above for Attachment F Figure 13, naphthalene is a suitable marker for total SVOC at every location. Figure 9 (Soil Naphthalene Distribution, plan view) is in good agreement with Attachment F Figure 4 (LIF Response Distribution). Both plots show a northern and southern parcel of contamination and the SVOCs have migrated across the western edge of South Reilly Road along with the NAPL stringers. The profile view of naphthalene in relation to NAPL observations (Figure 10) also indicates a good correlation, especially for naphthalene concentration greater than 50 mg/kg.

Figure 15 from Attachment F presents a graphical plot of SPLP and soil naphthalene concentrations. This result shows better correlation at higher SPLP concentrations (greater than 320 µg/L). This concentration corresponds with a naphthalene concentration on the soil of approximately 200 µg/kg.

3.5.5 NAPL Areas and Volumes

Additional model outputs include calculations of areas and volumes of NAPL impacted soil. Figure 11 of Attachment F indicates that the highest LIF %RE responses occur within intervals between elevation 225 ft above sea level (asl) and 215 ft asl. These layered results will be useful for plotting vertical intervals for soil remediation. Figures 17 and 18 of Attachment F includes rotatable model depictions along with

estimates of the volume of NAPL impacted soil at the site. The estimated volume of NAPL impacted soil with a TarGOST® response of greater than 20 %RE and 40 %RE is estimated to be approximately 18,503 and 1,440 cubic yards , respectively.

3.5.6 Clay Layer

Figure 12 of Attachment F presents the top of the clay layer that is commonly found at an approximate depth of 30 ft bls. This confining layer, typically a plastic clay but silty and even sandy in some areas, shows ten feet of relief and is highest across Reilly Road northwest of RW07 and near RW01 in the southern area of the Site. This clay layer is competent enough to limit the migration of NAPL downward. The figure indicates that paleochannels may be present at different locations across the site. These paleochannels would be common features of a continental and fluvial depositional environment. Attachment F includes a more detailed description and evaluation of the clay interface, the evidence for paleochannels, and the implication for NAPL transport associated with this geology.

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4.0 Conclusions and Recommendations

4.1 CONCLUSIONS

Detailed field assessments from 2009, 2013, and 2015 have further defined the extent and character of DNAPL impacts at the Cape Fear Site. The use of TarGOST® has provided significantly greater coverage and data resolution than would have been possible conducting soil sampling alone. The TarGOST® %RE LIF data correlated well with the soil boring log observations, NAPL saturation results, SVOC analytical, and the highest SPLP naphthalene results. The results of the TarGOST® along with the supporting evidence from the sonic borings will be used during the upcoming remedial technology evaluation to specify source zone remediation volumes. Conclusions are organized below relative to the investigation topic.

NAPL Delineation

- The additional points in the northern area have delineated the northern end of the NAPL plume, and indicate that NAPL mass has gone across the railroad and South Reilly Road. This leading edge of the DNAPL plume originated on facility in the general location of the former creosote impoundments.
- The updated LIF results have helped clarify that the DNAPL extent in the southern portion of the Site is a separate plume from the northern extent. It closely follows the drainage ditch that formerly drained to the diked pond to the southwest (Bechtel, 1999). Several feet of sediments in this ditch were excavated as part of the (1998 to 1999) RA. The DNAPL LIF results closely mimic the former location of this ditch as it doglegged north from the vicinity of L60 and crossed under the tracks to where DNAPL is observed at L32 and L48. The location of this southern DNAPL plume coincides with the former draining of the creosote impoundment/sump into this ditch. The southern plume was defined further to the east and west; however the southern edge is not bounded.
- The TarGOST® LIF data provides a more accurate resolution for lateral and vertical extent and magnitude of NAPL than could be inferred from visual observations of cores or soil analytical results. The correlation data (including residual saturation, SVOC analysis, SPLP results, log observations) all support this contention.
- LIF responses show a variable spatial extent with depth with the majority of NAPL noted between 215 and 225 ft asl. The high resolution mapping of DNAPL will allow a more precise source area delineation and remedial targeting.
- LIF results for the Site are skewed by fairly uniform and low-level background fluorescence.
- LIF values greater than 40 %RE consistently were correlated with observable NAPL. The callout signatures for intervals that exceed this limit were clear and distinctly representative for NAPL.

NAPL Characteristics and Geotechnical Interpretation

- Geotechnical testing results for USCS system differed somewhat from field log observations with all soils being classified as medium or fine sand. However, the silt/clay content ranged from 4% to 41% across the fourteen samples tested. Soils had an average porosity of 40.2%.

- Density testing confirmed the NAPL as a slightly dense DNAPL (average density of 1.09 g/cc). The viscosity was approximately 30 cP (30 times that of water). This viscosity can be readily pumped from a well but would demonstrate retarded transport in the formation.
- Residual NAPL saturation was measured in the fourteen tested soil samples, ranging from 1% to 25%. These saturation values represent a very high total SVOC concentration on the soils. A 9.2% NAPL saturations was shown to equate to approximately 25,500 mg/kg of NAPL (all PAHs and representative compounds) in the soil.
- Centrifuged NAPL was not reduced to below 7% to 8% in the two free product mobility tests. This indicates that a proportionally high residual saturation of NAPL will be left in the soil following direct DNAPL extraction efforts such as product pumping.

Residual Saturation Correlation with LIF

- LIF %RE responses versus the % NAPL saturation data generated by PTS had a fairly good correlation within the data set with an R^2 of 0.97 when outliers were considered and rejected. However, correlations from residual saturation were highly sensitive to small variances in sampling locations. Within zones of thin DNAPL stringers or sheens, this correlation was not reliable.

SPLP Correlation with LIF and visual NAPL

- Visual NAPL correlates strongly with significant SPLP leachate.
- Higher levels of SPLP leachate correlate best with corresponding higher LIF values.
- SPLP results conformed very well with visual NAPL observations.

DNAPL Volume and LIF Results

- DNAPL volume estimates for the 20 %RE and 40 %RE response levels are 18,500 and 1,440 cy, respectively at a 90% confidence interval. As LIF values in excess of 40 %RE are deemed definitely NAPL, these can be targeted with remedial action as rich DNAPL source zones. Typically, this may represent areas with thick bands of NAPL with a corresponding higher mass.
- Values between 20 to 40 %RE are potential DNAPL indicators that must be examined specifically by individual TarGOST® log waveform callout. Hence, a volume can be transcribed within this range that represents a lower threshold of mass and leachate that could warrant a modified remedial approach. Typically, this may represent areas with thinner NAPL stringers or sparser zones of residual DNAPL saturation. The volume of soils within this range could be addressed at a medium risk level with a less aggressive remedial approach.
- LIF values between 10 and 20 present an unlikely chance of residual NAPL and are more typically representative of stained soils and sparse intervals of DNAPL in soils. The volume of soils within this range could be addressed at a lower risk level with a non-aggressive remedial approach, phased remediation that examines source area treatment over time, or strictly MNA.

Underlying Confining Layer

- The clay layer previously noted at approximately 30-ft bls was found to have a variable top of surface with 8-ft of relief across the Site. This complex clay interface may impact the DNAPL deposition across the Site.

- Although present as a plastic clay in some areas of the site, in other portions of the site, the confining layer has significant proportions of silt and sand, typical of a fluvial depositional environment.
- This clay layer appears to be an effective semi-confined to confined unit owing to the 30-ft differential in head between the water table aquifer and underlying aquifer below the clay unit.
- It is hypothesized that NAPL has penetrated the confining layer where the greatest mass is present. SPLP values exceed groundwater standards at depths up to 70 feet. Dissolved contamination would not have migrated into the clay against the strong upwards hydraulic gradient.

A significant conclusion to be drawn from the cumulative evidence along with dissolved SVOC concentrations is that the contamination is not being transported far from the NAPL source. Monitoring wells MW-03, MW-04I, and MW-31S (depicted on Figure 7 in Attachment F) illustrate that naphthalene concentrations across South Reilly Road range from ND to 18 µg/L within 75-ft of the downgradient edge of the mapped NAPL at South Reilly Road.

4.2 RECOMMENDATIONS

Specific recommendations for achieving progress towards the FS Revision and Amended ROD include:

1. No additional LIF or NAPL delineation is warranted based upon the delineation and resolution of NAPL obtained during this investigation.
2. The formal Conceptual Site Model (CSM) should be updated as part of the FS Revision. The updated CSM will examine if the NAPL follows permeable sediments and paleo-channels.
3. The LIF contours for greater than 40 %RE, 20 to 40 %RE and 10 to 20 %RE should be further developed as a basis for contaminated media zones (CMZs) in the FS Revision. These zones will be used to screen applicable remedial technologies against the variable level of NAPL mass, volume and leachate risk presented by these zones.
4. Additional borings that penetrate the underlying layer may be needed to fully understand the degree of confinement presented by this unit. SVOC samples from deeper borings should be collected to indicate if a significant level of contamination (DNAPL, adsorbed, or dissolved) has moved into this zone. This is considered unlikely based upon the limited data set to date.
5. A preliminary evaluation of the efficacy of bioremediation to polish low level adsorbed and dissolved contamination at the Site should be examined. This appears to be a viable approach and has proven to be an effective remedial approach on other wood treating sites. The use of a downhole microcosm (such as a Bio-Trap® Sampler) and analyzing a few wells for PAH biodegradation markers such as naphthalene dioxygenase is suggested to support this remedy for the FS.
6. Appropriate pilot test for thermal remediation of rich source area NAPL or bench scale testing for solidification/stabilization (S/S) of NAPL impacted soils should be developed.

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5.0 References

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Tables

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Table 2-1
Summary of Soil Samples to Confirm TarGOST Logs
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

SOIL BORING ID	Sample ID	Soil Sampling Depth Interval (ft bgs)	Sample Date	Comments
L19	19L32	31.5 to 32	12/13/2015	Collected for SVOC, SIM, SPLP analyses
L57	57L17	16.5 to 17	12/12/2015	Collected for SVOC, SIM, SPLP analyses
	57L22.5	21.5 to 22.5		Collected for SVOC, SIM, SPLP analyses; residual saturation
	57L31.5	30.5 to 31.5		Collected for SVOC, SIM, SPLP analyses
L72	72L12.5	12 to 12.5	12/10/2015	Collected for SVOC, SIM, SPLP analyses
	72L14	13.5 to 14		Collected for SVOC, SIM, SPLP analyses
	72L16	15.5 to 16		Collected for SVOC, SIM, SPLP analyses
	72L20	19 to 20		Collected for SVOC, SIM, SPLP analyses
	72L27	26 to 27		Collected for SVOC, SIM, SPLP analyses; NAPL mobility, grain size
L76 (L76A)	76AL17.3	16.7 to 17.3	12/12/2015	Collected for SVOC, SIM, SPLP analyses
	76AL34	33 to 34		Collected for SVOC, SIM, SPLP analyses
L77	77L33	32 to 33	12/11/2015	Collected for SVOC, SIM, SPLP analyses
L79	79L19	18 to 19	12/9/2015	Collected for SVOC, SIM, SPLP analyses
	79L21	20 to 21		Collected for SVOC, SIM, SPLP analyses; residual saturation
L79 (L79A)	79AL31	30.5 to 31	12/13/2015	Collected for SVOC, SIM, SPLP analyses
L80	80L16.9	16.3 to 16.9	12/9/2015	Collected for SVOC, SIM, SPLP analyses
	80L18.9	18.3 to 18.9		Collected for SVOC, SIM, SPLP analyses
	80L29.3	28.5 to 29.3		Collected for SVOC, SIM, SPLP analyses
L81	81L09	8 to 9	12/10/2015	Collected for SVOC, SIM, SPLP analyses
	81L22.5	21.5 to 22.5		Collected for SVOC, SIM, SPLP analyses
	81L31	29.5 to 31.5		Collected for SVOC, SIM, SPLP analyses
L82	82L7.9	7.3 to 7.9	12/11/2015	Collected for SVOC, SIM, SPLP analyses; residual saturation
L83	83L21.5	20.5 to 21.5	12/12/2015	Collected for SVOC, SIM, SPLP analyses
	83L22.2	21.8 to 22.2		Collected for SVOC, SIM, SPLP analyses
	83L22	21 to 22		Collected for residual saturation analysis
	83L39	38 to 39		Collected for residual saturation analysis
	83L37.5	36.5 to 37.5		Collected for residual saturation analysis
	83L39	38 to 39		Collected for SVOC, SIM, SPLP analyses; grain size
L83 (L83A)	83AL40	39.5 to 40	12/13/2015	Collected for SVOC, SIM, SPLP analyses
	83AL43	42 to 43		Collected for SVOC, SIM, SPLP analyses
	83AL48	47 to 48		Collected for SVOC, SIM, SPLP analyses
	83AL50	49.5 to 50		Collected for SVOC, SIM, SPLP analyses
	83AL70	69 to 70		Collected for SVOC, SIM, SPLP analyses
L86	86L06	5 to 6	12/10/2015	Collected for SVOC, SIM, SPLP analyses
	86L19.8	18.9 to 19.8		Collected for SVOC, SIM, SPLP analyses; residual saturation
	86L30.3	29.5 to 30.3		Collected for SVOC, SIM, SPLP analyses; with field duplicate *986L30.3*
L89	89L13.5	12.5 to 13.5	12/12/2015	Collected for SVOC, SIM, SPLP analyses
	89L16.5	15.5 to 16.5		Collected for SVOC, SIM, SPLP analyses
	89L20.5	19.5 to 20.5		Collected for SVOC, SIM, SPLP analyses; with field duplicate *989L20.5*
L94	94L4.5	3.5 to 4.5	12/9/2015	Collected for SVOC, SIM, SPLP analyses
L95	95L30.5	29.5 to 30.5	12/10/2015	Collected for SVOC, SIM, SPLP analyses
	95L31.5	30.5 to 31.5		Collected for SVOC, SIM, SPLP analyses; grain size
L97	97L21.5	20.5 to 21.5	12/11/2015	Collected for SVOC, SIM, SPLP analyses; with field duplicate *997L21.5* ; residual saturation
	97L27.5	26.5 to 27.5		Collected for residual saturation analysis
	97L28.5	27.5 to 28.5		Collected for SVOC, SIM, SPLP analyses; residual saturation
	97L29	28 to 29		Collected for NAPL mobility, grain size analyses
	97L35.5	34.5 to 35.5		Collected for SVOC, SIM, SPLP analyses; residual saturation
L101	101L18.5	17.5 to 18.5	12/11/2015	Collected for residual saturation analysis
	101L29.5	28.5 to 29.5		Collected for SVOC, SIM, SPLP analyses; residual saturation
	101L34	33.5 to 34		Collected for SVOC, SIM, SPLP analyses; residual saturation

Notes:

ft bgs - feet below ground surface

Locations marked with an (A) are second borings at the same parent location (ie. L79 (L79A) is a second boring at the location L79)

NAPL - Non Aqueous Phase Liquid

SIM - Selective Ion Monitoring

SPLP - Synthetic Precipitation Leaching Procedure

SVOC - Semi-Volatile Organic Compounds

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Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72	
		Sample Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																						
(3-and/or 4-)Methylphenol			0.030		0.013		0.0020	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0024	J,O	0.0030	J,O
[1,1-Biphenyl]-2,2-diamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-3-ol			NA		0.02	NJ,O	0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-carboxaldehyde			0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-ol, acetate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1(2H)-Acenaphthylenone			NA		0.006	NJ,O	NA		NA		NA		0.008	NJ,O	NA		NA		NA		NA	
1,1-Biphenyl	0.4		0.059		0.12	J,O	0.098	J,O	0.060		0.054		0.061		0.061		0.047		0.041		0.077	
1,1'-Biphenyl, 2-methyl-			NA		NA		NA		0.006	NJ,O	NA		0.007	NJ,O	NA		0.006	NJ,O	NA		NA	
1,1-Biphenyl, 3-ethoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.01	NJ,O
1,1'-Biphenyl, 4-methyl-			NA		NA		NA		NA		NA		NA		0.008	NJ,O	NA		NA		NA	
1,1-Diphenyl-2-propanol			NA		NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA	
1,2,3,6,7,8-Hexahydro-as-indacene			NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene		0.002	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
1,3,5-Trimethylbenzene	0.4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dioxane	0.003		0.0020	U,J,O	0.0020	U,J,O	NA		0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O
1-Acenaphthenol			NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA	
1H-Inden-5-ol, 2,3-dihydro-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indene, 1-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 4-methyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Isopropenylnaphthalene			NA		NA		NA		0.01	NJ,O	0.005	NJ,O	0.01	NJ,O	NA		0.01	NJ,O	NA		NA	
1-Naphthalenamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthaleneacetonitrile			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenecarbonitrile			0.05	NJ,O	0.1	NJ,O	0.1	NJ,O	0.07	NJ,O	NA		NA		NA		0.06	NJ,O	NA		0.09	NJ,O
1-Naphthalenol, 2-methyl-			NA		0.07	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthol, 6,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.005	NJ,O
2,3,4,6-Tetrachlorophenol	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenol		0.063	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenyl cinnamate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol		0.004	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dichlorophenol		0.00098	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dimethylphenol	0.1		0.034		0.037		0.011		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0033	J,O	0.0061	
2,4-Dimethylstyrene			NA		NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA	
2,4-Dinitrophenol			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
2,4-Dinitrotoluene		0.0001	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Nonadiyne			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Azafluorene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Benzothiophene			NA		NA		NA		0.07	NJ,O	NA		NA		0.07	NJ,O	0.04	NJ,O	0.05	NJ,O	NA	
2-Chloronaphthalene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Chlorophenol	0.0004		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2-Dibenzofuranol			NA		0.02	NJ,O	0.01	NJ,O	NA		NA		NA		NA		NA		NA		0.008	NJ,O
2-Methyl-4,6-dinitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene	0.03		0.43		0.64		0.79		0.19		0.28		0.21	J,O	0.21	J,O	0.17		0.16		0.42	

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Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72	
		Sample Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20	
Analyte	**NC NCAC 2L GWS 13 APRIL**	**NC NCAC 2L GW IMAC 13 APRIL**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
SPLP Semi Volatile Organics (mg/L)																						
2-Methylphenol		0.4	0.015		0.0077	J,O	0.0012	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0013	J,O	0.0017	J,O
2-Naphthalenecarbonitrile			NA		NA		NA		NA		0.01	NJ,O	0.06	NJ,O	0.06	NJ,O	NA		0.06	NJ,O	NA	
2-Naphthalenol			0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Phenylphenol			NA		0.06	NJ,O	0.06	NJ,O	NA		NA		NA		0.01	NJ,O	0.006	NJ,O	0.01	NJ,O	0.02	NJ,O
2-Propenal, 3-phenyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Biphenylmethanol			NA		NA		0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA	
3-Hydroxyphenylacetylene			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.02	NJ,O
3-Methylbenzothiophene			NA		NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA	
3-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Phenylbut-1-ene			NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloro-3-methylphenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloroaniline			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
4-Chlorophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Cyclohepta-2,4,6-trienyl-phenol			NA		0.006	NJ,O	0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4H-Cyclopenta[def]phenanthrene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Methylcarbazole			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
4-Nitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
5(4H)-Thebenidinone			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
5H-Indeno[1,2-b]pyridine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
6H-Dibenzo[b,d]-pyran			NA		NA		NA		NA		NA		NA		NA		NA		0.02	NJ,O	0.02	NJ,O
6-Methyl-4-indanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9,10-Anthracenedione			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9-Acridinamine, 1,2,3,4-tetrahydro			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.008	NJ,O
9H-Carbazole, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluoren-9-ol			0.01	NJ,O	0.02	NJ,O	0.02	NJ,O	0.02	NJ,O	NA		NA		0.01	NJ,O	0.02	NJ,O	0.01	NJ,O	0.02	NJ,O
9H-Fluoren-9-one			0.006	NJ,O	NA		0.006	NJ,O	NA		NA		0.02	NJ,O	0.007	NJ,O	0.006	NJ,O	0.006	NJ,O	0.009	NJ,O
9H-Fluorene, 1-methyl-			NA		NA		NA		NA		NA		0.005	NJ,O	0.005	NJ,O	NA		NA		NA	
9H-Fluorene, 2-methyl-			0.006	NJ,O	0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 3-methyl-			NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA		NA		0.005	NJ,O
9H-Fluorene, 9-methyl-			NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Acenaphthene	**0.08**		**0.57**		**0.63**		**0.80**		**0.28**		**0.29**		**0.38**		**0.36**		**0.29**		**0.26**		**0.48**	
Acenaphthylene	0.2		0.020		0.033		0.029		0.0075		0.019		0.016		0.025		0.021		0.017		0.033	
Acetophenone		0.7	0.0024	J,O	0.0046	J,O	0.0026	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0011	J,O
Anthracene	2		0.014		0.022		0.016		0.011		0.010		0.013		0.014		0.011		0.012		0.015	
Anthracene, 9,10-dihydro-			0.01	NJ,O	0.01	NJ,O	0.009	NJ,O	NA		0.007	NJ,O	0.007	NJ,O	0.007	NJ,O	0.007	NJ,O	0.007	NJ,O	0.008	NJ,O
Atrazine	**0.003**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**		**0.010**	
Benzaldehyde		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Benzaldehyde, 2,6-difluoro-3-hydro			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, (2-methyl-1-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(bromomethylene)bis-			NA		NA		NA		NA		NA		NA		0.02	NJ,O	0.01	NJ,O	NA		NA	
Benzene, 1,1-(chloromethylene)bis			NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA	
Benzene, 1,2,3-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-butynyl-			NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-3-methyl-			NA		NA		NA		NA		0.005	NJ,O	NA		NA		NA		NA		NA	
Benzene, 1-ethynyl-4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72	
		Sample Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																						
Benzene, 1-methyl-2-phenoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-propynyl-			0.1	NJ,O	NA		NA		NA		NA		0.09	NJ,O	NA		0.09	NJ,O	NA		NA	
Benzene, 2-ethenyl-1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0010	J,O	0.0050		0.0010	J,O	0.0050	
Benzo(a)pyrene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(b)fluoranthene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(g,h,i)perylene	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Benzo(k)fluoranthene	0.0005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo[b]thiophene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		0.008	NJ,O	NA		NA	
Benzo[b]thiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	0.008	NJ,O	NA	
Benzo[b]thiophene, 5-methyl-			NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		0.007	NJ,O	NA	
Benzo[f]quinoline			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran			NA		0.02	NJ,O	0.03	NJ,O	0.006	NJ,O	NA		0.007	NJ,O	NA		NA		NA		NA	
Benzofuran, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA	
Benzofuran, 7-methyl-			NA		NA		NA		0.01	NJ,O	NA		NA		0.01	NJ,O	NA		0.008	NJ,O	NA	
Benzonitrile, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzyl butyl phthalate	1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Bis(2-chloroethoxy)methane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
bis(2-Chloroethyl) Ether	0.00003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Bis(2-chloroisopropyl) ether			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Bis(2-ethylhexyl) phthalate	0.003		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Butane, 2-methoxy-2-methyl-		0.128	NA		NA		NA		0.01	NJ,O	0.005	NJ,O	0.009	NJ,O	NA		NA		NA		NA	
Caprolactam	4		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Carbazole		0.002	0.12		0.50	J,O	0.55	J,O	0.12		0.024		0.11		0.22	J,O	0.16		0.16		0.26	J,O
Chloronitrobenzene, p-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	0.005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Cinnamaldehyde, (E)-			0.02	NJ,O	NA		0.03	NJ,O	NA		NA		NA		NA		NA		NA		0.03	NJ,O
Cyclopropanecarbonitrile, 2-phenyl			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Dibenzofuran		0.028	0.31		0.35	J,O	0.42	J,O	0.15		0.16	J,O	0.17	J,O	0.17	J,O	0.14	J,O	0.12	J,O	0.27	
Dibenzofuran, 4-methyl-			NA		0.02	NJ,O	0.02	NJ,O	0.01	NJ,O	0.009	NJ,O	0.01	NJ,O	NA		NA		NA		NA	
Dibenzo-p-dioxin			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene			NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		0.02	NJ,O
Dibenzothiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	6		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Dimethyl phthalate			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-butylphthalate	0.7		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-octylphthalate	0.1		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Diphenylmethane			0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	0.3		0.034		0.034		0.032		0.039		0.023		0.041		0.042		0.034		0.043		0.033	
Fluorene	0.3		0.32		0.32	J,O	0.38	J,O	0.13	J,O	0.17	J,O	0.18	J,O	0.18	J,O	0.14	J,O	0.14	J,O	0.27	
Hexachlorobenzene (HCB)	0.00002		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorobutadiene	0.0004		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorocyclopentadiene (HCCP)			0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U	0.010	U	0.010	U
Hexachloroethane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Indane			0.02	NJ,O	0.06	NJ,O	0.07	NJ,O	0.01	NJ,O	0.05	NJ,O	0.01	NJ,O	NA		0.01	NJ,O	0.01	NJ,O	0.02	NJ,O
Indene			NA		0.2	NJ,O	0.4	NJ,O	0.08	NJ,O	0.08	NJ,O	NA		0.1	NJ,O	NA		0.1	NJ,O	0.2	NJ,O
Indeno (1,2,3-cd) pyrene	0.00005		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72	
		Sample Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20	
Analyte	**NC NCAC 2L GWS 13 APRIL**	**NC NCAC 2L GW IMAC 13 APRIL**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
SPLP Semi Volatile Organics (mg/L)																						
Isophorone	0.04		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Naphthalene	0.006		2.7		4.9		6.8		1.1		1.8		1.3		1.2		0.98		1.0		2.3	
Naphthalene, 1-(2-propenyl)-			NA		NA		NA		0.005	NJ,O	NA		NA		0.02	NJ,O	NA		NA		NA	
Naphthalene, 1,2-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,3-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		0.02	NJ,O	NA	
Naphthalene, 1,4,5-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6,7-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6-dimethyl-			0.03	NJ,O	0.04	NJ,O	NA		NA		0.02	NJ,O	NA		0.02	NJ,O	NA		NA		0.02	NJ,O
Naphthalene, 1,7-dimethyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1-ethyl-			0.02	NJ,O	0.02	NJ,O	0.03	NJ,O	0.02	NJ,O	0.01	NJ,O	0.02	NJ,O	0.01	NJ,O	0.01	NJ,O	NA		NA	
Naphthalene, 1-methyl-		0.001	NA		NA		NA		0.3	NJ,O	NA		NA		0.1	NJ,O	0.1	NJ,O	0.09	NJ,O	0.2	NJ,O
Naphthalene, 2-(1-methylethenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.005	NJ,O
Naphthalene, 2,3-dimethyl-			0.01	NJ,O	NA		0.05	NJ,O	0.03	NJ,O	0.02	NJ,O	0.02	NJ,O	0.008	NJ,O	0.01	NJ,O	NA		0.04	NJ,O
Naphthalene, 2,6-dimethyl-			NA		NA		NA		NA		NA		0.02	NJ,O	NA		NA		0.01	NJ,O	NA	
Naphthalene, 2,7-dimethyl-			NA		0.04	NJ,O	NA		0.02	NJ,O	NA		NA		0.02	NJ,O	NA		NA		NA	
Naphthalene, 2-ethyl-			NA		NA		NA		NA		NA		NA		NA		NA		0.01	NJ,O	0.02	NJ,O
Naphtho[2,3-b]thiophene			0.02	NJ,O	0.02	NJ,O	NA		NA		0.02	NJ,O	0.02	NJ,O	NA		NA		0.01	NJ,O	NA	
Nitrobenzene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitroso di-n-Propylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitrosodiphenylamine/Diphenylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Nordiphenamid			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Pentachlorophenol (PCP)	0.0003		0.010	U,J,O	0.010	U,J,O	0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Phenanthrene	0.2		0.42		0.37	J,O	0.43	J,O	0.22		0.21	J,O	0.29		0.26		0.21		0.23		0.32	
Phenol	0.03		0.0043	J,O	0.0016	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Phenol, 2-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,3,5,6-tetramethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2-methyl-6-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 4-(phenylmethyl)-			NA		0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
p-Hydroxybiphenyl			0.006	NJ,O	0.02	NJ,O	0.02	NJ,O	NA		NA		NA		NA		NA		NA		0.008	NJ,O
Pyrene	0.2		0.018		0.018		0.018		0.022		0.013		0.024		0.019		0.016		0.020		0.015	
Pyrido[2,3-d]indole, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 7-methyl-			NA		NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Quinoline, 8-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.008	NJ,O
Tentatively Identified Compounds (TICs)			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Unidentified Compound(s)			0.03	J,O	0.06	J,O	0.04	J,O	0.02	J,O	0.008	J,O	0.02	J,O	0.04	J,O	0.02	J,O	0.04	J,O	0.04	J,O
Vinyl trans-cinnamate			NA		NA		NA		NA		NA		0.008	NJ,O	NA		NA		NA		0.01	NJ,O
Xylene, m-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
J - reported result is estimated
N - the analyte is reported as a tentative identification
O - reported result is estimated
U - The analyte was not detected at or above the reporting limit
NA - Compound not analyzed for
SPLP - Synthetic Precipitation Leaching Procedure
NC NCAC 2L GWS 13 APRIL - North Carolina groundwater standards for the protection of the groundwaters of the state, Eff. April 1, 2013.
NC NCAC 2L GW IMAC 13 APRIL - North Carolina Interim Maximum Allowable Concentrations (IMAC), Eff. April 1, 2013.

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L72		L76A		L76A		L77		L79		L79		L79		L80		L80		L80	
		Sample Date	12/10/2015		12/12/2015		12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015	
		Sample Identification No.	72L27		76AL17.3		76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3	
		Start Depth (ft)	26		16.7		33		32		18		20		30.5		16.3		18.3		28.5	
		End Depth (ft)	27		17.3		34		33		19		21		31		16.9		18.9		29.3	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																						
(3-and/or 4-)Methylphenol			0.032		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
[1,1-Biphenyl]-2,2-diamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-3-ol			0.03	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-carboxaldehyde			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-ol, acetate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1(2H)-Acenaphthylenone			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Biphenyl	0.4		0.10	J,O	0.078	J,O	0.024		0.0050	U	0.028		0.11	J,O	0.035		0.011		0.0026	J,O	0.0050	U
1,1'-Biphenyl, 2-methyl-			NA		NA		NA		NA		NA		0.009	NJ,O	0.006	NJ,O	NA		NA		NA	
1,1-Biphenyl, 3-ethoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 4-methyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Diphenyl-2-propanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,3,6,7,8-Hexahydro-as-indacene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene		0.002	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
1,3,5-Trimethylbenzene	0.4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dioxane	0.003		0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O
1-Acenaphthenol			0.005	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Inden-5-ol, 2,3-dihydro-			0.03	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indene, 1-methyl-			NA		NA		NA		NA		NA		NA		0.008	NJ,O	NA		NA		NA	
1H-Indole, 4-methyl-			0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 5-methyl-			0.04	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Isopropenylnaphthalene			NA		0.02	NJ,O	NA		NA		NA		0.01	NJ,O	0.009	NJ,O	NA		NA		NA	
1-Naphthalenamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthaleneacetonitrile			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenecarbonitrile			NA		NA		0.006	NJ,O	NA		NA		0.08	NJ,O	NA		NA		NA		NA	
1-Naphthalenol, 2-methyl-			0.06	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 4-methyl-			0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthol, 6,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenol		0.063	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenyl cinnamate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol		0.004	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dichlorophenol		0.00098	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dimethylphenol	0.1		0.16	J,O	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4-Dimethylstyrene			NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA	
2,4-Dinitrophenol			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
2,4-Dinitrotoluene		0.0001	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Nonadiyne			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Azafluorene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Benzothiophene			NA		NA		0.02	NJ,O	NA		0.03	NJ,O	NA		0.06	NJ,O	NA		NA		NA	
2-Chloronaphthalene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Chlorophenol	0.0004		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2-Dibenzofuranol			0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Methyl-4,6-dinitrophenol			0.010	U	NA		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene	0.03		0.61	J,O	0.41		0.10		0.0020	J,O	0.11	J,O	0.44		0.19		0.015		0.0079		0.0054	

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Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L72		L76A		L76A		L77		L79		L79		L79		L80		L80		L80	
		Sample Date	12/10/2015		12/12/2015		12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015	
		Sample Identification No.	72L27		76AL17.3		76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3	
		Start Depth (ft)	26		16.7		33		32		18		20		30.5		16.3		18.3		28.5	
		End Depth (ft)	27		17.3		34		33		19		21		31		16.9		18.9		29.3	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																						
2-Methylphenol		0.4	0.027		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Naphthalenecarbonitrile			NA		0.1	NJ,O	NA		NA		0.03	NJ,O	NA		0.03	NJ,O	NA		NA		NA	
2-Naphthalenol			0.1	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Phenylphenol			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
2-Propenal, 3-phenyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Biphenylmethanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Hydroxyphenylacetylene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Methylbenzothiophene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Phenylbut-1-ene			NA		NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA	
4-Bromophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloro-3-methylphenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloroaniline			0.010	U,J,O	0.010	U,J,O	NA		NA		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
4-Chlorophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Cyclohepta-2,4,6-trienyl-phenol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4H-Cyclopenta[def]phenanthrene			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA	
4-Methylcarbazole			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
4-Nitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
5(4H)-Thebenidinone			NA		NA		NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA	
5H-Indeno[1,2-b]pyridine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
6H-Dibenzo[b,d]-pyran			NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA	
6-Methyl-4-indanol			0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
9,10-Anthracenedione			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA	
9-Acridinamine, 1,2,3,4-tetrahydro			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Carbazole, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluoren-9-ol			NA		0.02	NJ,O	NA		NA		0.006	NJ,O	NA		0.01	NJ,O	NA		NA		NA	
9H-Fluoren-9-one			0.008	NJ,O	NA		NA		NA		NA		0.009	NJ,O	NA		NA		NA		NA	
9H-Fluorene, 1-methyl-			NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 9-methyl-			NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA		NA		NA	
Acenaphthene	0.08		0.59	J,O	0.48		0.13		0.0039	J,O	0.19		0.59		0.20		0.070		0.010		0.0051	
Acenaphthylene	0.2		0.052		0.027		0.0088		0.0050	U	0.0098		0.032		0.012		0.0029	J,O	0.0050	U	0.0050	U
Acetophenone		0.7	0.0089	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Anthracene	2		0.016		0.012		0.0051		0.0050	U	0.0083		0.019		0.012		0.0037	J,O	0.0050	U	0.0050	U
Anthracene, 9,10-dihydro-			0.006	NJ,O	0.007	NJ,O	NA		NA		0.006	NJ,O	0.01	NJ,O	0.006	NJ,O	NA		NA		NA	
Atrazine	0.003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Benzaldehyde		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Benzaldehyde, 2,6-difluoro-3-hydro			0.06	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, (2-methyl-1-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(bromomethylene)bis-			NA		NA		NA		NA		NA		0.02	NJ,O	NA		NA		NA		NA	
Benzene, 1,1-(chloromethylene)bis			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,2,3-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-butynyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-2-methyl-			0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethynyl-4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

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Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L72		L76A		L76A		L77		L79		L79		L79		L80		L80		L80	
		Sample Date	12/10/2015		12/12/2015		12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015	
		Sample Identification No.	72L27		76AL17.3		76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3	
		Start Depth (ft)	26		16.7		33		32		18		20		30.5		16.3		18.3		28.5	
		End Depth (ft)	27		17.3		34		33		19		21		31		16.9		18.9		29.3	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																						
Benzene, 1-methyl-2-phenoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-propynyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 2-ethenyl-1,4-dimethyl-			NA		NA		0.005	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	0.00005		0.0050		0.0010	J,O	0.0050		0.0050		0.0050		0.0010	J,O	0.0050		0.0050		0.0050		0.0050	
Benzo(a)pyrene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(b)fluoranthene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(g,h,i)perylene	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Benzo(k)fluoranthene	0.0005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo[b]thiophene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 2-methyl-			NA		NA		NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA	
Benzo[b]thiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 6-methyl-			NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA	
Benzo[f]quinoline			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran			0.02	NJ,O	0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 7-methyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 4-methyl-			0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzyl butyl phthalate	1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Bis(2-chloroethoxy)methane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
bis(2-Chloroethyl) Ether	0.00003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Bis(2-chloroisopropyl) ether			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Bis(2-ethylhexyl) phthalate	0.003		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Butane, 2-methoxy-2-methyl-		0.128	NA		NA		0.007	NJ,O	0.01	NJ,O	NA		NA		0.01	NJ,O	NA		NA		NA	
Caprolactam	4		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Carbazole		0.002	0.44	J,O	0.21	J,O	0.014		0.010		0.083		0.22	J,O	0.076		0.0065	J,O	0.0094	J,O	0.0011	J,O
Chloronitrobenzene, p-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	0.005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Cinnamaldehyde, (E)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cyclopropanecarbonitrile, 2-phenyl			NA		0.007	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Dibenzofuran		0.028	0.33	J,O	0.26		0.075		0.0029	J,O	0.072		0.30		0.10	J,O	0.031		0.0041	J,O	0.0019	J,O
Dibenzofuran, 4-methyl-			NA		NA		NA		NA		NA		0.02	NJ,O	0.01	NJ,O	NA		NA		NA	
Dibenzo-p-dioxin			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene			0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	6		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Dimethyl phthalate			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-butylphthalate	0.7		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-octylphthalate	0.1		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Diphenylmethane			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	0.3		0.030		0.040		0.014		0.0013	J,O	0.023		0.038		0.038		0.015		0.0015	J,O	0.0019	J,O
Fluorene	0.3		0.28	J,O	0.24	J,O	0.076		0.0035	J,O	0.094	J,O	0.28		0.12	J,O	0.037		0.0045	J,O	0.0034	J,O
Hexachlorobenzene (HCB)	0.00002		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorobutadiene	0.0004		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorocyclopentadiene (HCCP)			0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
Hexachloroethane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Indane			0.01	NJ,O	0.05	NJ,O	0.01	NJ,O	NA		0.02	NJ,O	0.02	NJ,O	0.01	NJ,O	NA		NA		NA	
Indene			0.2	NJ,O	0.3	NJ,O	0.03	NJ,O	NA		0.05	NJ,O	0.06	NJ,O	0.04	NJ,O	NA		0.007	NJ,O	NA	
Indeno (1,2,3-cd) pyrene	0.00005		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L72		L76A		L76A		L77		L79		L79		L79		L80		L80		L80	
		Sample Date	12/10/2015		12/12/2015		12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015	
		Sample Identification No.	72L27		76AL17.3		76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3	
		Start Depth (ft)	26		16.7		33		32		18		20		30.5		16.3		18.3		28.5	
		End Depth (ft)	27		17.3		34		33		19		21		31		16.9		18.9		29.3	
Analyte	**NC NCAC 2L GWS 13 APRIL**	**NC NCAC 2L GW IMAC 13 APRIL**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
SPLP Semi Volatile Organics (mg/L)																						
Isophorone	0.04		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Naphthalene	0.006		5.1		3.0		0.45		0.012		0.68		1.8		0.96		0.024		0.085		0.044	
Naphthalene, 1-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,2-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,3-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,5-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4-dimethyl-			0.04	NJ,O	0.03	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6,7-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6-dimethyl-			NA		NA		NA		NA		0.008	NJ,O	NA		NA		NA		NA		NA	
Naphthalene, 1,7-dimethyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1-ethyl-			0.02	NJ,O	0.02	NJ,O	0.005	NJ,O	NA		0.006	NJ,O	0.02	NJ,O	0.009	NJ,O	NA		NA		NA	
Naphthalene, 1-methyl-		0.001	0.3	NJ,O	NA		0.08	NJ,O	NA		0.1	NJ,O	0.2	NJ,O	0.2	NJ,O	0.02	NJ,O	0.007	NJ,O	NA	
Naphthalene, 2-(1-methylethenyl)-			NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA	
Naphthalene, 2,3,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3-dimethyl-			0.01	NJ,O	NA		0.01	NJ,O	NA		0.01	NJ,O	0.04	NJ,O	0.02	NJ,O	0.007	NJ,O	NA		NA	
Naphthalene, 2,6-dimethyl-			NA		0.04	NJ,O	0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,7-dimethyl-			0.05	NJ,O	NA		NA		NA		NA		0.03	NJ,O	0.01	NJ,O	NA		NA		NA	
Naphthalene, 2-ethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphtho[2,3-b]thiophene			NA		NA		NA		NA		NA		0.02	NJ,O	NA		NA		NA		NA	
Nitrobenzene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitroso di-n-Propylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitrosodiphenylamine/Diphenylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Nordiphenamid			NA		NA		NA		NA		0.008	NJ,O	NA		NA		NA		NA		NA	
Pentachlorophenol (PCP)	0.0003		0.010		0.010		0.010		0.010		0.010	U,J,O	0.010	U,J,O	0.010		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
Phenanthrene	0.2		0.29	J,O	0.30		0.10		0.0073		0.14		0.34		0.21		0.060		0.0080		0.0078	
Phenol	0.03		0.0026	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Phenol, 2-(phenylmethyl)-			0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,3,5,6-tetramethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2-methyl-6-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 4-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
p-Hydroxybiphenyl			NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Pyrene	0.2		0.014		0.024		0.0080		0.0050	U	0.011		0.018		0.021		0.0072		0.0050	U	0.0050	U
Pyrido[2,3-d]indole, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 6-methyl-			0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 8-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tentatively Identified Compounds (TICs)			NA		NA		NA		NA		NA		NA		NA		NA		NA		0.005	U
Unidentified Compound(s)			0.03	J,O	0.02	J,O	0.006	J,O	NA		NA		NA		0.02	J,O	NA		NA		NA	
Vinyl trans-cinnamate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Xylene, m-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
J - reported result is estimated
N - the analyte is reported as a tentative identification
O - reported result is estimated
U - The analyte was not detected at or above the reporting limit
NA - Compound not analyzed for
SPLP - Synthetic Precipitation Leaching Procedure
NC NCAC 2L GWS 13 APRIL - North Carolina groundwater standards for the protection of the groundwaters of the state, Eff. April 1, 2013.
NC NCAC 2L GW IMAC 13 APRIL - North Carolina Interim Maximum Allowable Concentrations (IMAC), Eff. April 1, 2013.

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L81		L81		L81		L82		L83		L83		L83		L83		L83		L83		L83	
		Sample Date	12/10/2015		12/10/2015		12/10/2015		12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015	
		Sample Identification No.	81L09		81L22.5		81L31.5		82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50	
		Start Depth (ft)	8		21.5		29.5		7.3		20.5		21.8		38		39.5		42		47		49.5	
		End Depth (ft)	9		22.5		31.5		7.9		21.5		22.2		39		40		43		48		50	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																								
(3-and/or 4-)Methylphenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
[1,1-Biphenyl]-2,2-diamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-3-ol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-carboxaldehyde			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-ol, acetate			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1(2H)-Acenaphthylenone			NA		NA		NA		NA		0.006	NJ,O	0.008	NJ,O	NA		NA		NA		NA		NA	
1,1-Biphenyl	0.4		0.0040	J,O	0.079		0.14	J,O	0.0071		0.081	J,O	0.099	J,O	0.036		0.032		0.0071		0.0077		0.011	
1,1'-Biphenyl, 2-methyl-			NA		NA		0.02	NJ,O	NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA	
1,1-Biphenyl, 3-ethoxy-			NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 4-methyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Diphenyl-2-propanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,3,6,7,8-Hexahydro-as-indacene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene		0.002	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
1,3,5-Trimethylbenzene	0.4		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dioxane	0.003		0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O
1-Acenaphthenol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Inden-5-ol, 2,3-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indene, 1-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Isopropenylnaphthalene			NA		0.01	NJ,O	0.02	NJ,O	NA		0.006	NJ,O	0.02	NJ,O	0.008	NJ,O	NA		NA		NA		NA	
1-Naphthalenamine			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthaleneacetonitrile			NA		NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA		NA		NA	
1-Naphthalenecarbonitrile			NA		NA		NA		NA		0.1	NJ,O	NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthol, 6,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenol		0.063	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenyl cinnamate			NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol		0.004	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dichlorophenol		0.00098	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dimethylphenol	0.1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4-Dimethylstyrene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	NA		0.010	U,J,O	0.010	U,J,O
2,4-Dinitrotoluene		0.0001	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Nonadiyne			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Azafluorene			NA		NA		0.005	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
2-Benzothiophene			NA		NA		NA		NA		NA		NA		0.02	NJ,O	NA		NA		0.009	NJ,O	NA	
2-Chloronaphthalene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Chlorophenol	0.0004		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2-Dibenzofuranol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Methyl-4,6-dinitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene	0.03		0.011		0.52		0.72		0.027		0.35		0.71		0.18		0.14	J,O	0.026		0.033		0.062	

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L81		L81		L81		L82		L83		L83		L83		L83		L83		L83		L83	
		Sample Date	12/10/2015		12/10/2015		12/10/2015		12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015	
		Sample Identification No.	81L09		81L22.5		81L31.5		82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50	
		Start Depth (ft)	8		21.5		29.5		7.3		20.5		21.8		38		39.5		42		47		49.5	
		End Depth (ft)	9		22.5		31.5		7.9		21.5		22.2		39		40		43		48		50	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																								
2-Methylphenol		0.4	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Naphthalenecarbonitrile			NA		0.06	NJ,O	0.09	NJ,O	NA		NA		0.2	NJ,O	0.02	NJ,O	0.01	NJ,O	NA		NA		NA	
2-Naphthalenol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Phenylphenol			NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA	
2-Propenal, 3-phenyl-			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA	
3,3'-Dichlorobenzidine			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Biphenylmethanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Hydroxyphenylacetylene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Methylbenzothiophene			NA		NA		NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA		NA	
3-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA		0.010	U	0.010	U
3-Phenylbut-1-ene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloro-3-methylphenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloroaniline			0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	NA		NA		0.010	U,J,O
4-Chlorophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Cyclohepta-2,4,6-trienyl-phenol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
4H-Cyclopenta[def]phenanthrene			0.006	NJ,O	0.02	NJ,O	NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA		NA	
4-Methylcarbazole			NA		0.03	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA		0.010	U	0.010	U
4-Nitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	NA		0.010	U	0.010	U
5(4H)-Thebenidinone			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
5H-Indeno[1,2-b]pyridine			NA		0.009	NJ,O	NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA	
6H-Dibenzo[b,d]-pyran			NA		NA		NA		NA		NA		0.03	NJ,O	NA		NA		NA		NA		NA	
6-Methyl-4-indanol			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9,10-Anthracenedione			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9-Acridinamine, 1,2,3,4-tetrahydro			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Carbazole, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA	
9H-Fluoren-9-ol			NA		NA		NA		NA		NA		0.02	NJ,O	NA		NA		NA		NA		NA	
9H-Fluoren-9-one			NA		NA		NA		NA		NA		0.009	NJ,O	NA		NA		NA		NA		NA	
9H-Fluorene, 1-methyl-			NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA		NA		NA		NA	
9H-Fluorene, 2-methyl-			NA		0.01	NJ,O	0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 3-methyl-			NA		NA		NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA	
9H-Fluorene, 9-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Acenaphthene	0.08		0.025		0.52		0.71		0.037		0.51		0.85		0.25		0.17		0.038		0.042	J,O	0.046	J,O
Acenaphthylene	0.2		0.0050	U	0.024		0.027		0.0029	J,O	0.040		0.036		0.013		0.011		0.0031	J,O	0.0033	J,O	0.0029	J,O
Acetophenone		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Anthracene	2		0.0039	J,O	0.023		0.024		0.0015	J,O	0.030		0.029		0.012		0.0034	J,O	0.0013	J,O	0.0012	J,O	0.0050	U
Anthracene, 9,10-dihydro-			NA		0.01	NJ,O	0.01	NJ,O	NA		0.008	NJ,O	0.01	NJ,O	0.006	NJ,O	NA		NA		NA		NA	
Atrazine	0.003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Benzaldehyde		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Benzaldehyde, 2,6-difluoro-3-hydro			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, (2-methyl-1-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(bromomethylene)bis-			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(chloromethylene)bis			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,2,3-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-butynyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-2-methyl-			NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethynyl-4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	

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Checked By: D. Scherbak 2/26/2016

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SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L81		L81		L81		L82		L83		L83		L83		L83		L83		L83		L83	
		Sample Date	12/10/2015		12/10/2015		12/10/2015		12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015	
		Sample Identification No.	81L09		81L22.5		81L31.5		82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50	
		Start Depth (ft)	8		21.5		29.5		7.3		20.5		21.8		38		39.5		42		47		49.5	
		End Depth (ft)	9		22.5		31.5		7.9		21.5		22.2		39		40		43		48		50	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																								
Benzene, 1-methyl-2-phenoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-propynyl-			NA		NA		NA		0.005	NJ,O	NA		0.3	NJ,O	0.03	NJ,O	0.06	NJ,O	NA		NA		0.01	NJ,O
Benzene, 2-ethenyl-1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	0.00005		0.0050		0.0050		0.0010	J,O	0.0050		0.0050		0.0050		0.0010	J,O	0.0050		0.0050		0.0050		0.0050	
Benzo(a)pyrene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(b)fluoranthene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(g,h,i)perylene	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Benzo(k)fluoranthene	0.0005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo[b]thiophene			NA		NA		NA		NA		NA		NA		NA		0.04	NJ,O	NA		NA		0.02	NJ,O
Benzo[b]thiophene, 2-methyl-			NA		NA		NA		NA		NA		NA		0.006	NJ,O	0.007	NJ,O	NA		NA		NA	
Benzo[b]thiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[f]quinoline			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzyl butyl phthalate	1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Bis(2-chloroethoxy)methane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
bis(2-Chloroethyl) Ether	0.00003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Bis(2-chloroisopropyl) ether			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Bis(2-ethylhexyl) phthalate	0.003		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Butane, 2-methoxy-2-methyl-		0.128	NA		NA		NA		0.008	NJ,O	NA		NA		0.009	NJ,O	0.007	NJ,O	0.01	NJ,O	0.007	NJ,O	0.01	NJ,O
Caprolactam	4		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Carbazole		0.002	0.0011	J,O	0.23	J,O	0.30	J,O	0.0020	J,O	0.18	J,O	0.63	J,O	0.071		0.031		0.011		0.0091	J,O	0.0022	J,O
Chloronitrobenzene, p-			0.007	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	0.005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Cinnamaldehyde, (E)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cyclopropanecarbonitrile, 2-phenyl			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Dibenzofuran		0.028	0.014		0.28	J,O	0.39	J,O	0.019		0.27		0.45	J,O	0.13		0.088	J,O	0.017		0.024		0.024	
Dibenzofuran, 4-methyl-			NA		0.02	NJ,O	0.02	NJ,O	NA		0.02	NJ,O	NA		0.009	NJ,O	NA		NA		NA		NA	
Dibenzo-p-dioxin			NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA	
Dibenzothiophene			NA		NA		0.02	NJ,O	NA		NA		NA		NA		0.007	NJ,O	NA		NA		NA	
Dibenzothiophene, 4-methyl-			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	6		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Dimethyl phthalate			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0056		0.0050	U
Di-n-butylphthalate	0.7		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-octylphthalate	0.1		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Diphenylmethane			NA		NA		NA		NA		NA		0.01	NJ,O	0.005	NJ,O	0.005	NJ,O	NA		NA		NA	
Fluoranthene	0.3		0.016		0.034		0.041		0.0026	J,O	0.037		0.036		0.038		0.0068		0.0022	J,O	0.0031	J,O	0.0014	J,O
Fluorene	0.3		0.022		0.29	J,O	0.39	J,O	0.020		0.30		0.40	J,O	0.14		0.074		0.020		0.023		0.023	
Hexachlorobenzene (HCB)	0.00002		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorobutadiene	0.0004		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorocyclopentadiene (HCCP)			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U
Hexachloroethane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Indane			NA		0.07	NJ,O	0.1	NJ,O	NA		0.03	NJ,O	0.05	NJ,O	0.005	NJ,O	0.01	NJ,O	NA		NA		0.01	NJ,O
Indene			NA		0.1	NJ,O	0.2	NJ,O	NA		0.2	NJ,O	NA		NA		NA		0.01	NJ,O	0.02	NJ,O	NA	
Indeno (1,2,3-cd) pyrene	0.00005		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L81		L81		L81		L82		L83		L83		L83		L83		L83		L83		L83	
		Sample Date	12/10/2015		12/10/2015		12/10/2015		12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015	
		Sample Identification No.	81L09		81L22.5		81L31.5		82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50	
		Start Depth (ft)	8		21.5		29.5		7.3		20.5		21.8		38		39.5		42		47		49.5	
		End Depth (ft)	9		22.5		31.5		7.9		21.5		22.2		39		40		43		48		50	
Analyte	**NC NCAC 2L GWS 13 APRIL**	**NC NCAC 2L GW IMAC 13 APRIL**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
SPLP Semi Volatile Organics (mg/L)																								
Isophorone	0.04		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Naphthalene	0.006		0.0093		3.1		4.8		0.15		1.4		5.0		0.70		0.88		0.16		0.24		0.40	
Naphthalene, 1-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,2-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,3-dimethyl-			NA		0.04	NJ,O	NA		NA		NA		0.03	NJ,O	NA		NA		NA		NA		NA	
Naphthalene, 1,4,5-trimethyl-			NA		0.005	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,6-trimethyl-			NA		NA		0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6,7-trimethyl-			NA		NA		0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6-dimethyl-			NA		NA		0.06	NJ,O	NA		NA		NA		NA		0.009	NJ,O	NA		NA		NA	
Naphthalene, 1,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA	
Naphthalene, 1-ethyl-			NA		0.02	NJ,O	0.04	NJ,O	NA		0.02	NJ,O	0.02	NJ,O	0.01	NJ,O	0.006	NJ,O	NA		NA		NA	
Naphthalene, 1-methyl-		0.001	0.009	NJ,O	NA		0.3	NJ,O	0.02	NJ,O	NA		NA		0.1	NJ,O	0.1	NJ,O	0.02	NJ,O	0.03	NJ,O	0.04	NJ,O
Naphthalene, 2-(1-methylethenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3,6-trimethyl-			NA		NA		0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3-dimethyl-			NA		0.02	NJ,O	0.07	NJ,O	NA		0.01	NJ,O	0.04	NJ,O	0.02	NJ,O	NA		NA		NA		NA	
Naphthalene, 2,6-dimethyl-			NA		0.02	NJ,O	NA		NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA	
Naphthalene, 2,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2-ethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphtho[2,3-b]thiophene			NA		0.02	NJ,O	NA		NA		NA		0.02	NJ,O	NA		NA		NA		NA		NA	
Nitrobenzene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitroso di-n-Propylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitrosodiphenylamine/Diphenylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Nordiphenamid			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Pentachlorophenol (PCP)	0.0003		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Phenanthrene	0.2		0.045		0.34	J,O	0.43	J,O	0.026		0.48		0.49	J,O	0.24		0.072		0.022		0.026		0.024	
Phenol	0.03		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Phenol, 2-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,3,5,6-tetramethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2-methyl-6-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 4-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
p-Hydroxybiphenyl			NA		NA		NA		NA		NA		0.009	NJ,O	NA		NA		NA		NA		NA	
Pyrene	0.2		0.0078		0.015		0.019		0.0050	U	0.023		0.021		0.022		0.0036	J,O	0.0050	U	0.0050	U	0.0050	U
Pyrido[2,3-d]indole, 6-methyl-			NA		NA		NA		NA		NA		NA		0.01	NJ,O	NA		NA		NA		NA	
Quinoline, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 7-methyl-			NA		NA		NA		NA		0.006	NJ,O	0.009	NJ,O	NA		NA		NA		NA		NA	
Quinoline, 8-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tentatively Identified Compounds (TICs)			NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Unidentified Compound(s)			NA		0.02	J,O	0.06	J,O	NA		0.04	J,O	0.09	J,O	0.02	J,O	NA		NA		NA		NA	
Vinyl trans-cinnamate			NA		NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA		NA		NA	
Xylene, m-			NA		0.02	NJ,O	0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
J - reported result is estimated
N - the analyte is reported as a tentative identification
O - reported result is estimated
U - The analyte was not detected at or above the reporting limit
NA - Compound not analyzed for
SPLP - Synthetic Precipitation Leaching Procedure
NC NCAC 2L GWS 13 APRIL - North Carolina groundwater standards for the protection of the groundwaters of the state, Eff. April 1, 2013.
NC NCAC 2L GW IMAC 13 APRIL - North Carolina Interim Maximum Allowable Concentrations (IMAC), Eff. April 1, 2013.

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L83		L86		L86		L86		L86		L89		L89		L89		L89	
		Sample Date	12/13/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015	
		Sample Identification No.	83AL70		86L19.8		86L30.3		986L30.3		86L06		89L13.5		89L16.5		89L20.5		989L20.5	
		Start Depth (ft)	69		18.9		29.5		29.5		5		12.5		15.5		19.5		19.5	
		End Depth (ft)	70		19.8		30.3		30.3		6		13.5		16.5		20.5		20.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																				
(3-and/or 4-)Methylphenol			0.010	U	0.0024	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
[1,1-Biphenyl]-2,2-diamine			NA		0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-3-ol			NA		0.04	NJ,O	NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-carboxaldehyde			NA		NA		NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-4-ol, acetate			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1(2H)-Acenaphthylenone			NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA		NA	
1,1-Biphenyl	0.4		0.0030	J,O	0.20	J,O	0.015	J	0.0086	J	0.0011	J,O	0.0077		0.011		0.0068		0.011	
1,1'-Biphenyl, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Biphenyl, 3-ethoxy-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,1-Diphenyl-2-propanol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,3,6,7,8-Hexahydro-as-indacene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene		0.002	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
1,3,5-Trimethylbenzene	0.4		NA		NA		NA		NA		NA		NA		NA		NA		NA	
1,4-Dioxane	0.003		0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O
1-Acenaphthenol			NA		NA		0.005	NJ,O	NA		NA		NA		NA		NA		NA	
1H-Inden-5-ol, 2,3-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indene, 1-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Isopropenylnaphthalene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenamine			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthaleneacetonitrile			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenecarbonitrile			NA		NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA	
1-Naphthalenol, 2-methyl-			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
1-Naphthol, 6,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenol		0.063	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenyl cinnamate			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol		0.004	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dichlorophenol		0.00098	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Dimethylphenol	0.1		0.0050	U	0.025		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4-Dimethylstyrene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
2,4-Dinitrotoluene		0.0001	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2,4-Nonadiyne			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2,6-Dinitrotoluene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Azafluorene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Benzothiophene			NA		NA		0.04	NJ,O	0.03	NJ,O	NA		NA		0.02	NJ,O	NA		0.02	NJ,O
2-Chloronaphthalene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Chlorophenol	0.0004		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
2-Dibenzofuranol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Methyl-4,6-dinitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene	0.03		0.012		0.88		0.10	J,O	0.041	J	0.0050		0.028		0.080		0.027	J	0.063	J

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Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L83		L86		L86		L86		L86		L89		L89		L89		L89	
		Sample Date	12/13/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015	
		Sample Identification No.	83AL70		86L19.8		86L30.3		986L30.3		86L06		89L13.5		89L16.5		89L20.5		989L20.5	
		Start Depth (ft)	69		18.9		29.5		29.5		5		12.5		15.5		19.5		19.5	
		End Depth (ft)	70		19.8		30.3		30.3		6		13.5		16.5		20.5		20.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																				
2-Methylphenol		0.4	0.010	U	0.0019	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Naphthalenecarbonitrile			NA		NA		0.01	NJ,O	NA		NA		NA		NA		NA		NA	
2-Naphthalenol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Phenylphenol			NA		0.04	NJ,O	NA		NA		NA		NA		NA		NA		NA	
2-Propenal, 3-phenyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Biphenylmethanol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Hydroxyphenylacetylene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Methylbenzothiophene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
3-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Phenylbut-1-ene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloro-3-methylphenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloroaniline			NA		0.010	U	0.010	U,J,O	0.010	U,J,O	NA		NA		0.010	U,J,O	NA		NA	
4-Chlorophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Cyclohepta-2,4,6-trienyl-phenol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene			NA		0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA	
4H-Cyclopenta[def]phenanthrene			NA		NA		0.01	NJ,O	0.007	NJ,O	NA		NA		0.005	NJ,O	NA		NA	
4-Methylcarbazole			NA		NA		0.007	NJ,O	NA		NA		NA		NA		NA		NA	
4-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
4-Nitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
5(4H)-Thebenidinone			NA		NA		NA		NA		NA		NA		NA		NA		NA	
5H-Indeno[1,2-b]pyridine			NA		NA		NA		NA		NA		NA		NA		NA		NA	
6H-Dibenzo[b,d]-pyran			NA		NA		NA		NA		NA		NA		NA		NA		NA	
6-Methyl-4-indanol			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9,10-Anthracenedione			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9-Acridinamine, 1,2,3,4-tetrahydro			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Carbazole, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluoren-9-ol			NA		0.009	NJ,O	NA		NA		NA		NA		NA		NA		NA	
9H-Fluoren-9-one			NA		0.02	NJ,O	0.005	NJ,O	NA		NA		NA		NA		NA		NA	
9H-Fluorene, 1-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 9-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Acenaphthene	0.08		0.016		0.98		0.079	J	0.049	J	0.0051		0.039		0.053		0.036		0.045	
Acenaphthylene	0.2		0.0050	U	0.080		0.0056		0.0036	J,O	0.0050	U	0.0027	J,O	0.0024	J,O	0.0018	J,O	0.0055	J
Acetophenone		0.7	0.010	U	0.0035	J,O	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Anthracene	2		0.0050	U	0.034		0.0048	J,O	0.0032	J,O	0.0050	U	0.0017	J,O	0.0031	J,O	0.0018	J,O	0.0030	J,O
Anthracene, 9,10-dihydro-			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Atrazine	0.003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Benzaldehyde		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Benzaldehyde, 2,6-difluoro-3-hydro			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, (2-methyl-1-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(bromomethylene)bis-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(chloromethylene)bis			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,2,3-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-butynyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethynyl-4-methyl-			NA		NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA	

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L83		L86		L86		L86		L86		L89		L89		L89		L89	
		Sample Date	12/13/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015	
		Sample Identification No.	83AL70		86L19.8		86L30.3		986L30.3		86L06		89L13.5		89L16.5		89L20.5		989L20.5	
		Start Depth (ft)	69		18.9		29.5		29.5		5		12.5		15.5		19.5		19.5	
		End Depth (ft)	70		19.8		30.3		30.3		6		13.5		16.5		20.5		20.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																				
Benzene, 1-methyl-2-phenoxy-			NA		0.008	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-propynyl-			NA		NA		NA		0.006	NJ,O	NA		0.008	NJ,O	NA		NA		NA	
Benzene, 2-ethenyl-1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	0.00005		0.0050		0.0011	J,O	0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(a)pyrene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(b)fluoranthene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(g,h,i)perylene	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Benzo(k)fluoranthene	0.0005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo[b]thiophene			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 5-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzo[f]quinoline			NA		0.04	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Benzofuran			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 2-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 7-methyl-			NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 3-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzonitrile, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Benzyl butyl phthalate	1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Bis(2-chloroethoxy)methane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
bis(2-Chloroethyl) Ether	0.00003		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Bis(2-chloroisopropyl) ether			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Bis(2-ethylhexyl) phthalate	0.003		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Butane, 2-methoxy-2-methyl-		0.128	0.005	NJ,O	NA		NA		NA		NA		0.006	NJ,O	0.006	NJ,O	0.007	NJ,O	0.008	NJ,O
Caprolactam	4		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Carbazole		0.002	0.0011	J,O	0.73	J,O	0.023		0.017		0.010	U	0.0045	J,O	0.0025	J,O	0.0035	J,O	0.0033	J,O
Chloronitrobenzene, p-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Chrysene	0.005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Cinnamaldehyde, (E)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Cyclopropanecarbonitrile, 2-phenyl			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Dibenzofuran		0.028	0.0078		0.54	J,O	0.043		0.026		0.0028	J,O	0.020		0.032		0.018		0.024	
Dibenzofuran, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzo-p-dioxin			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene			NA		0.03	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	6		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Dimethyl phthalate			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-butylphthalate	0.7		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-octylphthalate	0.1		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Diphenylmethane			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	0.3		0.0012	J,O	0.051		0.026		0.016		0.0019	J,O	0.0041	J,O	0.010		0.0035	J,O	0.0056	
Fluorene	0.3		0.0085		0.46	J,O	0.050		0.032		0.0034	J,O	0.023		0.034		0.019		0.026	
Hexachlorobenzene (HCB)	0.00002		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorobutadiene	0.0004		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorocyclopentadiene (HCCP)			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
Hexachloroethane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Indane			NA		0.02	NJ,O	NA		NA		NA		NA		NA		0.007	NJ,O	0.02	NJ,O
Indene			NA		0.2	NJ,O	0.01	NJ,O	NA		NA		NA		NA		NA		0.01	NJ,O
Indeno (1,2,3-cd) pyrene	0.00005		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L83		L86		L86		L86		L86		L89		L89		L89		L89	
		Sample Date	12/13/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015	
		Sample Identification No.	83AL70		86L19.8		86L30.3		986L30.3		86L06		89L13.5		89L16.5		89L20.5		989L20.5	
		Start Depth (ft)	69		18.9		29.5		29.5		5		12.5		15.5		19.5		19.5	
		End Depth (ft)	70		19.8		30.3		30.3		6		13.5		16.5		20.5		20.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																				
Isophorone	0.04		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Naphthalene	0.006		0.068		7.4		0.66		0.53		0.018		0.18		0.45		0.16	J	0.52	J
Naphthalene, 1-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,2-dihydro-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,3-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,5-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4-dimethyl-			NA		NA		NA		NA		NA		NA		0.005	NJ,O	NA		NA	
Naphthalene, 1,6,7-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6-dimethyl-			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1-ethyl-			NA		0.02	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1-methyl-		0.001	0.01	NJ,O	0.3	NJ,O	0.04	NJ,O	0.02	NJ,O	NA		0.02	NJ,O	0.04	NJ,O	0.02	NJ,O	0.04	NJ,O
Naphthalene, 2-(1-methylethenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3-dimethyl-			NA		0.02	NJ,O	0.007	NJ,O	NA		NA		NA		NA		NA		NA	
Naphthalene, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2-ethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Naphtho[2,3-b]thiophene			NA		NA		0.006	NJ,O	NA		NA		NA		NA		NA		NA	
Nitrobenzene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitroso di-n-Propylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitrosodiphenylamine/Diphenylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Nordiphenamid			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Pentachlorophenol (PCP)	0.0003		0.010		0.010		0.010		0.010		0.010		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	
Phenanthrene	0.2		0.012		0.53	J,O	0.11	J,O	0.061	J	0.0059		0.033		0.059		0.026	J	0.037	J
Phenol	0.03		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Phenol, 2-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,3,5,6-tetramethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 2-methyl-6-(2-propenyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Phenol, 4-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
p-Hydroxybiphenyl			NA		0.05	NJ,O	NA		NA		NA		NA		NA		NA		NA	
Pyrene	0.2		0.0050	U	0.024		0.011		0.0076		0.0050	U	0.0025	J,O	0.0058		0.0050	U	0.0036	J,O
Pyrido[2,3-d]indole, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 6-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 7-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Quinoline, 8-methyl-			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Tentatively Identified Compounds (TICs)			NA		NA		NA		NA		0.005	U	NA		NA		NA		NA	
Unidentified Compound(s)			NA		0.05	J,O	NA		NA		NA		NA		NA		NA		NA	
Vinyl trans-cinnamate			NA		NA		NA		NA		NA		NA		NA		NA		NA	
Xylene, m-			NA		NA		NA		NA		NA		NA		NA		NA		NA	

Notes:
J - reported result is estimated
N - the analyte is reported as a tentative identification
O - reported result is estimated
U - The analyte was not detected at or above the reporting limit
NA - Compound not analyzed for
SPLP - Synthetic Precipitation Leaching Procedure
NC NCAC 2L GWS 13 APRIL - North Carolina groundwater standards for the protection of the groundwaters of the state, Eff. April 1, 2013.
NC NCAC 2L GW IMAC 13 APRIL - North Carolina Interim Maximum Allowable Concentrations (IMAC), Eff. April 1, 2013.

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L94		L95		L95		L97		L97		L97		L97	
		Sample Date	12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																
(3-and/or 4-)Methylphenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.011		0.082	
[1,1-Biphenyl]-2,2-diamine			NA		NA		NA		NA		NA		NA		NA	
[1,1'-Biphenyl]-3-ol			NA		NA		NA		0.006	NJ,O	NA		0.02	NJ,O	0.04	NJ,O
[1,1'-Biphenyl]-4-carboxaldehyde			NA		NA		NA		NA		0.02	NJ,O	NA		NA	
[1,1'-Biphenyl]-4-ol, acetate			NA		NA		NA		NA		0.008	NJ,O	NA		NA	
1(2H)-Acenaphthylenone			NA		NA		NA		0.006	NJ,O	0.006	NJ,O	NA		NA	
1,1-Biphenyl	0.4		0.0032	J,O	0.013		0.025		0.077		0.12	J,O	0.13	J,O	0.12	J,O
1,1'-Biphenyl, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
1,1-Biphenyl, 3-ethoxy-			NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 3-methyl-			NA		NA		NA		NA		NA		NA		NA	
1,1'-Biphenyl, 4-methyl-			NA		NA		NA		0.008	NJ,O	NA		NA		NA	
1,1-Diphenyl-2-propanol			NA		NA		NA		NA		NA		NA		NA	
1,2,3,6,7,8-Hexahydro-as-indacene			NA		NA		NA		NA		NA		NA		NA	
1,2,4,5-Tetrachlorobenzene		**0.002**	**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**	
1,3,5-Trimethylbenzene	0.4		NA		NA		NA		NA		NA		0.02	NJ,O	NA	
1,4-Dioxane	0.003		NA		0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O	0.0020	U,J,O
1-Acenaphthenol			NA		NA		NA		NA		NA		0.009	NJ,O	0.02	NJ,O
1H-Inden-5-ol, 2,3-dihydro-			NA		NA		NA		NA		NA		0.006	NJ,O	0.03	NJ,O
1H-Indene, 1-methyl-			NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 4-methyl-			NA		NA		NA		NA		NA		NA		0.01	NJ,O
1H-Indole, 5-methyl-			NA		NA		NA		NA		NA		NA		NA	
1H-Indole, 7-methyl-			NA		NA		NA		NA		NA		0.01	NJ,O	NA	
1-Isopropenylnaphthalene			NA		NA		NA		0.02	NJ,O	0.01	NJ,O	NA		NA	
1-Naphthalenamine			NA		NA		NA		NA		NA		0.01	NJ,O	0.03	NJ,O
1-Naphthaleneacetonitrile			NA		NA		NA		0.006	NJ,O	0.005	NJ,O	NA		NA	
1-Naphthalenecarbonitrile			NA		NA		NA		0.08	NJ,O	0.1	NJ,O	0.09	NJ,O	NA	
1-Naphthalenol, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
1-Naphthalenol, 4-methyl-			NA		NA		NA		NA		NA		0.006	NJ,O	0.01	NJ,O
1-Naphthol, 6,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA	
2,3,4,6-Tetrachlorophenol	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenol		0.063	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2,4,5-Trichlorophenyl cinnamate			NA		NA		NA		NA		NA		NA		NA	
2,4,6-Trichlorophenol		**0.004**	**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**	
2,4-Dichlorophenol		**0.00098**	**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**	
2,4-Dimethylphenol	**0.1**		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.028		**0.31**	**J,O**
2,4-Dimethylstyrene			NA		NA		NA		NA		NA		NA		NA	
2,4-Dinitrophenol			0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
2,4-Dinitrotoluene		**0.0001**	**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**	
2,4-Nonadiyne			NA		NA		NA		NA		0.02	NJ,O	NA		NA	
2,6-Dinitrotoluene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Azafluorene			NA		NA		NA		NA		NA		NA		NA	
2-Benzothiophene			0.007	NJ,O	0.008	NJ,O	NA		NA		NA		NA		NA	
2-Chloronaphthalene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Chlorophenol	**0.0004**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**		**0.0050**	
2-Dibenzofuranol			NA		NA		NA		NA		NA		0.02	NJ,O	NA	
2-Methyl-4,6-dinitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
2-Methylnaphthalene	**0.03**		0.016		**0.050**		**0.18**		**0.41**		**0.64**		**0.57**		**0.78**	

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Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L94		L95		L95		L97		L97		L97		L97	
		Sample Date	12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																
2-Methylphenol		0.4	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0082	J,O	0.048	
2-Naphthalenecarbonitrile			NA		NA		NA		NA		NA		NA		0.1	NJ,O
2-Naphthalenol			NA		NA		NA		NA		NA		NA		NA	
2-Nitrophenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
2-Phenylphenol			NA		NA		NA		NA		NA		0.06	NJ,O	0.1	NJ,O
2-Propenal, 3-phenyl-			NA		NA		NA		NA		NA		NA		NA	
3,3'-Dichlorobenzidine			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Biphenylmethanol			NA		NA		NA		NA		NA		NA		NA	
3-Hydroxyphenylacetylene			NA		NA		NA		NA		NA		NA		NA	
3-Methylbenzothiophene			NA		NA		NA		NA		NA		NA		NA	
3-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
3-Phenylbut-1-ene			NA		NA		NA		NA		NA		NA		NA	
4-Bromophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloro-3-methylphenol			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Chloroaniline			NA		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
4-Chlorophenyl phenyl ether			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
4-Cyclohepta-2,4,6-trienyl-phenol			NA		NA		NA		NA		NA		NA		NA	
4-Ethyltoluene			NA		NA		NA		NA		NA		NA		NA	
4H-Cyclopenta[def]phenanthrene			NA		NA		0.005	NJ,O	NA		NA		NA		NA	
4-Methylcarbazole			NA		NA		NA		NA		NA		NA		NA	
4-Nitroaniline			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
4-Nitrophenol			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
5(4H)-Thebenidinone			NA		NA		NA		NA		NA		NA		NA	
5H-Indeno[1,2-b]pyridine			NA		NA		NA		NA		NA		NA		NA	
6H-Dibenzo[b,d]-pyran			NA		NA		NA		NA		NA		NA		NA	
6-Methyl-4-indanol			NA		NA		NA		NA		NA		NA		0.01	NJ,O
9,10-Anthracenedione			NA		NA		NA		NA		NA		NA		NA	
9-Acridinamine, 1,2,3,4-tetrahydro			NA		NA		NA		NA		NA		NA		NA	
9H-Carbazole, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
9H-Fluoren-9-ol			NA		NA		NA		0.02	NJ,O	NA		0.02	NJ,O	NA	
9H-Fluoren-9-one			NA		NA		NA		0.009	NJ,O	0.01	NJ,O	0.009	NJ,O	NA	
9H-Fluorene, 1-methyl-			NA		NA		NA		NA		NA		0.005	NJ,O	NA	
9H-Fluorene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
9H-Fluorene, 3-methyl-			NA		NA		NA		0.006	NJ,O	NA		NA		NA	
9H-Fluorene, 9-methyl-			NA		NA		NA		NA		0.009	NJ,O	NA		NA	
Acenaphthene	0.08		0.015		0.068		0.15		0.55		0.71		0.70		0.75	
Acenaphthylene	0.2		0.0050	U	0.0038	J,O	0.011		0.032	J	0.043	J	0.041		0.039	
Acetophenone		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0035	J,O	0.016	
Anthracene	2		0.0050	U	0.0026	J,O	0.0047	J,O	0.019	J	0.024	J	0.024		0.016	
Anthracene, 9,10-dihydro-			NA		NA		NA		0.01	NJ,O	0.01	NJ,O	0.01	NJ,O	0.007	NJ,O
Atrazine	0.003		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Benzaldehyde		0.7	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Benzaldehyde, 2,6-difluoro-3-hydro			NA		NA		NA		NA		NA		NA		NA	
Benzene, (2-methyl-1-propenyl)-			NA		NA		0.01	NJ,O	NA		NA		NA		NA	
Benzene, 1,1-(bromomethylene)bis-			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,1-(chloromethylene)bis			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1,2,3-trimethyl-			NA		NA		NA		0.02	NJ,O	NA		NA		NA	
Benzene, 1-butynyl-			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-2-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethyl-3-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-ethynyl-4-methyl-			NA		NA		NA		NA		NA		NA		NA	

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Table 2-2
SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L94		L95		L95		L97		L97		L97		L97	
		Sample Date	12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	NC NCAC 2L GWS 13 APRIL	NC NCAC 2L GW IMAC 13 APRIL	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
SPLP Semi Volatile Organics (mg/L)																
Benzene, 1-methyl-2-phenoxy-			NA		NA		NA		NA		NA		NA		NA	
Benzene, 1-propynyl-			NA		NA		0.03	NJ,O	NA		NA		NA		NA	
Benzene, 2-ethenyl-1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA	
Benzo(a)anthracene	0.00005		0.0050		0.0050		0.0050		0.0023	J,O	0.0050		0.0050		0.0050	
Benzo(a)pyrene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(b)fluoranthene	0.00005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo(g,h,i)perylene	0.2		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Benzo(k)fluoranthene	0.0005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Benzo[b]thiophene			NA		NA		0.04	NJ,O	NA		NA		NA		NA	
Benzo[b]thiophene, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 5-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzo[b]thiophene, 6-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzo[f]quinoline			NA		NA		NA		NA		0.03	NJ,O	NA		NA	
Benzofuran			NA		NA		NA		NA		NA		0.04	NJ,O	0.02	NJ,O
Benzofuran, 2-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzofuran, 7-methyl-			NA		NA		NA		NA		0.01	NJ,O	NA		NA	
Benzonitrile, 3-methyl-			NA		NA		NA		NA		NA		NA		0.01	NJ,O
Benzonitrile, 4-methyl-			NA		NA		NA		NA		NA		NA		NA	
Benzyl butyl phthalate	1		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Bis(2-chloroethoxy)methane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
bis(2-Chloroethyl) Ether	0.00003		0.010		0.010		0.010		0.010		0.010		0.010		0.010	
Bis(2-chloroisopropyl) ether			0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Bis(2-ethylhexyl) phthalate	0.003		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Butane, 2-methoxy-2-methyl-		0.128	NA		NA		NA		NA		NA		NA		NA	
Caprolactam	4		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Carbazole		0.002	0.0020	J,O	0.0094	J,O	0.0090	J,O	0.25	J,O	0.39	J,O	0.51	J,O	0.55	J,O
Chloronitrobenzene, p-			NA		NA		NA		NA		NA		NA		NA	
Chrysene	0.005		0.0050		0.0050		0.0050		0.0019	J,O	0.0050		0.0050		0.0050	
Cinnamaldehyde, (E)-			NA		NA		NA		NA		NA		NA		NA	
Cyclopropanecarbonitrile, 2-phenyl			NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	0.000005		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050		0.0050	
Dibenzofuran		0.028	0.0090		0.033		0.057		0.29		0.38	J,O	0.37	J,O	0.41	J,O
Dibenzofuran, 4-methyl-			NA		NA		NA		NA		NA		0.03	NJ,O	0.03	NJ,O
Dibenzo-p-dioxin			NA		NA		NA		NA		NA		NA		NA	
Dibenzothiophene			NA		NA		0.005	NJ,O	NA		NA		0.02	NJ,O	NA	
Dibenzothiophene, 4-methyl-			NA		NA		NA		NA		NA		NA		NA	
Diethyl phthalate	6		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Dimethyl phthalate			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-butylphthalate	0.7		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Di-n-octylphthalate	0.1		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Diphenylmethane			NA		NA		NA		NA		NA		NA		NA	
Fluoranthene	0.3		0.0027	J,O	0.0052		0.0076	J,O	0.044	J	0.044	J	0.040		0.036	
Fluorene	0.3		0.0087		0.034		0.061		0.29		0.39	J,O	0.34		0.35	J,O
Hexachlorobenzene (HCB)	0.00002		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorobutadiene	0.0004		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Hexachlorocyclopentadiene (HCCP)			0.010	U,J,O	0.010	U	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
Hexachloroethane			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Indane			NA		0.01	NJ,O	0.03	NJ,O	0.03	NJ,O	0.09	NJ,O	0.05	NJ,O	0.02	NJ,O
Indene			NA		0.01	NJ,O	NA		0.2	NJ,O	0.3	NJ,O	0.4	NJ,O	0.2	NJ,O
Indeno (1,2,3-cd) pyrene	0.00005		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U

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SPLP Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L94		L95		L95		L97		L97		L97		L97	
		Sample Date	12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	**NC NCAC 2L GWS 13 APRIL**	**NC NCAC 2L GW IMAC 13 APRIL**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
SPLP Semi Volatile Organics (mg/L)																
Isophorone	0.04		0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Naphthalene	0.006		0.14		0.34		1.2		2.5	J	5.0	J	4.4		6.9	
Naphthalene, 1-(2-propenyl)-			NA		NA		NA		NA		0.02	NJ,O	NA		NA	
Naphthalene, 1,2-dihydro-			NA		NA		0.007	NJ,O	NA		NA		NA		NA	
Naphthalene, 1,3-dimethyl-			NA		NA		0.005	NJ,O	NA		NA		0.03	NJ,O	NA	
Naphthalene, 1,4,5-trimethyl-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,4-dimethyl-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 1,6,7-trimethyl-			NA		NA		NA		NA		0.007	NJ,O	NA		NA	
Naphthalene, 1,6-dimethyl-			NA		NA		NA		0.03	NJ,O	NA		NA		NA	
Naphthalene, 1,7-dimethyl-			NA		NA		NA		NA		0.04	NJ,O	NA		0.03	NJ,O
Naphthalene, 1-ethyl-			NA		NA		NA		0.02	NJ,O	0.03	NJ,O	0.02	NJ,O	0.02	NJ,O
Naphthalene, 1-methyl-		0.001	0.01	NJ,O	0.03	NJ,O	0.07	NJ,O	NA		NA		NA		NA	
Naphthalene, 2-(1-methylethenyl)-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3,6-trimethyl-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2,3-dimethyl-			NA		0.005	NJ,O	0.01	NJ,O	0.03	NJ,O	0.05	NJ,O	0.03	NJ,O	0.04	NJ,O
Naphthalene, 2,6-dimethyl-			NA		NA		NA		NA		0.02	NJ,O	NA		NA	
Naphthalene, 2,7-dimethyl-			NA		NA		NA		NA		NA		NA		NA	
Naphthalene, 2-ethyl-			NA		NA		0.006	NJ,O	NA		NA		NA		NA	
Naphtho[2,3-b]thiophene			NA		NA		NA		0.02	NJ,O	NA		NA		NA	
Nitrobenzene			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitroso di-n-Propylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
n-Nitrosodiphenylamine/Diphenylamine			0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Nordiphenamid			NA		NA		NA		NA		NA		NA		NA	
Pentachlorophenol (PCP)	0.0003		0.010	U,J,O	0.010		0.010		0.010	U,J,O	0.010	U,J,O	0.010	U,J,O	0.010	U,J,O
Phenanthrene	0.2		0.013		0.044		0.066		0.37		0.51		0.43	J,O	0.39	J,O
Phenol	0.03		0.010	U	0.010	U	0.010	U	0.010	U	0.010	U	0.0015	J,O	0.0056	J,O
Phenol, 2-(phenylmethyl)-			NA		NA		NA		NA		NA		NA		NA	
Phenol, 2,3,5,6-tetramethyl-			NA		NA		NA		NA		NA		NA		0.01	NJ,O
Phenol, 2,6-dimethyl-			NA		NA		NA		NA		NA		NA		0.01	NJ,O
Phenol, 2-methyl-6-(2-propenyl)-			NA		NA		NA		NA		NA		NA		0.01	NJ,O
Phenol, 4-(phenylmethyl)-			NA		NA		NA		NA		NA		0.005	NJ,O	0.008	NJ,O
p-Hydroxybiphenyl			NA		NA		NA		NA		NA		0.03	NJ,O	0.06	NJ,O
Pyrene	0.2		0.0050	U	0.0024	J,O	0.0037	J,O	0.025		0.025		0.022		0.019	
Pyrido[2,3-d]indole, 6-methyl-			NA		NA		NA		NA		NA		NA		NA	
Quinoline, 6-methyl-			NA		NA		NA		NA		NA		NA		NA	
Quinoline, 7-methyl-			NA		NA		NA		NA		0.007	NJ,O	NA		NA	
Quinoline, 8-methyl-			NA		NA		NA		NA		NA		NA		NA	
Tentatively Identified Compounds (TICs)			NA		NA		NA		NA		NA		NA		NA	
Unidentified Compound(s)			NA		NA		NA		0.02	J,O	0.04	J,O	0.04	J,O	0.07	J,O
Vinyl trans-cinnamate			NA		NA		NA		NA		NA		NA		NA	
Xylene, m-			NA		NA		0.02	NJ,O	NA		NA		NA		NA	

Notes:
J - reported result is estimated
N - the analyte is reported as a tentative identification
O - reported result is estimated
U - The analyte was not detected at or above the reporting limit
NA - Compound not analyzed for
SPLP - Synthetic Precipitation Leaching Procedure
NC NCAC 2L GWS 13 APRIL - North Carolina groundwater standards for the protection of the groundwaters of the state, Eff. April 1, 2013.
NC NCAC 2L GW IMAC 13 APRIL - North Carolina Interim Maximum Allowable Concentrations (IMAC), Eff. April 1, 2013.

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72		L72		L76A	
		Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20		72L27		76AL17.3	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19		26		16.7	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20		27		17.3	
Analyte	NC LEACH 15 SEPT	ROD Soil Cleanup Goal	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Semi Volatile Organics (ug/kg dry)																										
(3-and/or 4-)Methylphenol			850		230	J,O	400	U	400	U	400	U	400	U	390	U	390	U	69	J,O	68	J,O	720		410	U
1,1-Biphenyl	43000		2900		34000		4400	J,O	12000		200	U	2600		6000		5600		2200		1100		180000		2200	
1,2,4,5-Tetrachlorobenzene	97		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
1,4-Dioxane	12		80	U,J,O	81	U,J,O	81	U,J,O	81	U,J,O	80	U,J,O	82	U,J,O	79	U,J,O	79	U	80	U	83	U,J,O	78	U,J,O	83	U,J,O
2,3,4,6-Tetrachlorophenol	13000		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2,4,5-Trichlorophenol	2500		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2,4,6-Trichlorophenol	160		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2,4-Dichlorophenol	14		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2,4-Dimethylphenol	1400		630		470		70	J,O	210	U	200	U	210	U	200	U	200	U	69	J,O	63	J,O	2200		210	U
2,4-Dinitrophenol			390	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	390	U,J,O	390	U,J,O	400	U,J,O	410	U,J,O	380	U,J,O	410	U,J,O
2,4-Dinitrotoluene	1.6		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2,6-Dinitrotoluene			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2-Chloronaphthalene			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2-Chlorophenol	4.1		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2-Methyl-4,6-dinitrophenol			390	U	NA		400	U	NA		400	U	400	U	NA		NA		400	U	410	U	380	U	410	U
2-Methylphenol	4100		350	J,O	120	J,O	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	540		410	U
2-Nitroaniline			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
2-Nitrophenol			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
3,3'-Dichlorobenzidine			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
3-Nitroaniline			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
4-Bromophenyl phenyl ether			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
4-Chloro-3-methylphenol			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
4-Chloroaniline			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
4-Chlorophenyl phenyl ether			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
4-Nitroaniline			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
4-Nitrophenol			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Acenaphthylene	21000		570		3000		570		470		2.4	J,O	400		1300		1200		590		280		41000		380	
Acetophenone	3500		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	190	J,O	410	U
Atrazine	25		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Benzaldehyde	3000		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Benzo(g,h,i)perylene	7800000		130	J,O	1100		180	J,O	580		4	U	130	J,O	280		270		110	J,O	55	J,O	3100		130	J,O
Benzyl butyl phthalate	150000		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Bis(2-chloroethoxy)methane			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
bis(2-Chloroethyl) Ether	0.14		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Bis(2-chloroisopropyl) ether			390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Bis(2-ethylhexyl) phthalate	7200		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U

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Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L101		L101		L19		L57		L57		L57		L72		L72		L72		L72		L72		L76A	
		Date	12/11/2015		12/11/2015		12/13/2015		12/12/2015		12/12/2015		12/12/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/10/2015		12/12/2015	
		Sample Identification No.	101L29.5		101L34		19L32		57L17		57L22.5		57L31.5		72L12.5		72L14		72L16		72L20		72L27		76AL17.3	
		Start Depth (ft)	28.5		33.5		31.5		16.5		21.5		30.5		12		13.5		15.5		19		26		16.7	
		End Depth (ft)	29.5		34		32		17		22.5		31.5		12.5		14		16		20		27		17.3	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Caprolactam	18000		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Carbazole	370		2100		18000		2700		3300		56	J,O	1300		5600		4800		2700		990		84000		1300	
Dibenzofuran	5200		12000		260000		18000		41000		67	J,O	9800		22000		22000		9600		4200		640000		10000	
Diethyl phthalate	19000		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Dimethyl phthalate			420		240		210	U	210	U	500		380		430		520		520		570		200	U	260	
Di-n-butylphthalate	19000		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Di-n-octylphthalate	280000		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Hexachlorobenzene (HCB)	2.6		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Hexachlorobutadiene	8.7		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Hexachlorocyclopentadiene (HCCP)			390	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	400	U,J,O	390	U,J,O	390	U	400	U	410	U,J,O	380	U	410	U,J,O
Hexachloroethane			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Isophorone	210		200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Nitrobenzene			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
n-Nitroso di-n-Propylamine			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
n-Nitrosodiphenylamine/Diphenylamine			200	U	200	U	210	U	210	U	200	U	210	U	200	U	200	U	200	U	210	U	200	U	210	U
Pentachlorophenol	31		390	U	400	U	400	U	400	U	400	U	400	U	390	U	390	U	400	U	410	U	380	U	410	U
Phenanthrene	68000		38000		860000		60000		240000		160		33000		74000		72000		31000		13000		2000000		36000	
Phenol	230		280	J,O	71	J,O	400	U	400	U	400	U	400	U	390	U	51	J,O	72	J,O	75	J,O	140	J,O	410	U
Carcinogenic PAHs Soil Concentrations (µg/kg)																										
Benzo(a)anthracene	180		2400		26000		3100		10000		6.4		2000		4300		4200		1600		800		120000	J,O	2100	
Benzo(a)pyrene	59		650		6700		850		2400		4	U	600		1100		1100		450		230		38000		640	
Benzo(b)fluoranthene	600		1200		11000		1500		4900	J,O	4	U	990		1900		1800		740		370		63000		1100	
Benzo(k)fluoranthene	5900		390		5100	J,O	570		1500		4	U	380		660		650		300		140	J,O	23000		420	
Chrysene	18000		2100		22000		2700		8700		4.8		1700		3900		3600		1400		700		110000	J,O	1800	
Dibenzo(a,h)anthracene	190		56	J,O	460		77	J,O	210		4	U	51	J,O	94	J,O	98	J,O	47	J,O	210	U	1200		50	J,O
Indeno (1,2,3-cd) pyrene	2000		140	J,O	1300		200	J,O	630		4	U	130	J,O	270		280		110	J,O	61	J,O	9900		150	J,O
Naphthalene	210		31000		690000		52000		84000		450		25000		43000		45000		27000		12000		1400000		19000	
Total CPAHs		2500	37936		762560		60997		112340		461		30851		55224		56728		31647		14301		1765100		25260	
Noncarcinogenic PAHs Soil Concentrations (µg/kg)																										
Acenaphthene	8400		17000		380000		26000		53000		84		15000		31000		30000		14000		5800		910000		15000	
Anthracene	660000		2500		29000		3100		9300		9.2		1900		8000		6600		2600		880		130000	J,O	1800	
Fluoranthene	330000		20000		170000		28000		70000		56	J,O	17000		36000		36000		15000	J,O	4900		1100000		20000	
Fluorene	56000		14000		310000		23000		39000		46		11000		26000		25000		12000		4900		740000		12000	
Pyrene	220000		12000		95000		18000		42000		40	J,O	9600		19000		19000		8000		3200		590000		11000	
2-Methylnaphthalene	1600		12000		290000		18000		38000		82		9100		19000		19000		9100		4300		580000		8400	
Total PAHs		100000	115436		2036560		177097		363640		778		94451		194224		192328		92347		38281		5815100		93460	
Total SVOCs			173666		3213791		263017		660990		1564		142061		303834		298769		139277		58682		8766990		143730	

Notes:
PAH listing from the RSLs.
CPAH - carcinogenic polycyclic aromatic hydrocarbons
J - result is estimated
NA - not analyzed for
O - result is estimated
PAH - polycyclic aromatic hydrocarbons
U - The analyte was not detected at or above the reporting limit.
µg/kg - micrograms per kilograms
ft - foot
SVOCs - Semi-Volatile Organic Compounds

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L76A		L77		L79		L79		L79		L80		L80		L80		L81		L81		L81	
		Date	12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3		81L09		81L22.5		81L31.5	
		Start Depth (ft)	33		32		18		20		30.5		16.3		18.3		28.5		8		21.5		29.5	
		End Depth (ft)	34		33		19		21		31		16.9		18.9		29.3		9		22.5		31.5	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi Volatile Organics (ug/kg dry)																								
(3-and/or 4-)Methylphenol			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
1,1-Biphenyl	43000		210	U	200	U	460		4700		400		220		47	J,O	210	U	200	U	5100		6900	
1,2,4,5-Tetrachlorobenzene	97		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
1,4-Dioxane	12		84	U,J,O	77	U,J,O	82	U	80	U,J,O	82	U	86	U	81	U	82	U	77	U	82	U,J,O	82	U,J,O
2,3,4,6-Tetrachlorophenol	13000		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,4,5-Trichlorophenol	2500		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,4,6-Trichlorophenol	160		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,4-Dichlorophenol	14		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,4-Dimethylphenol	1400		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,4-Dinitrophenol			420	U,J,O	380	U,J,O	400	U,J,O	390	U,J,O	400	U,J,O	420	U,J,O	400	U,J,O	400	U,J,O	380	U,J,O	410	U,J,O	400	U,J,O
2,4-Dinitrotoluene	1.6		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2,6-Dinitrotoluene			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2-Chloronaphthalene			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2-Chlorophenol	4.1		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2-Methyl-4,6-dinitrophenol			420	U	380	U	400	U	NA		400	U	420	U	400	U	400	U	380	U	410	U	400	U
2-Methylphenol	4100		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
2-Nitroaniline			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
2-Nitrophenol			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
3,3'-Dichlorobenzidine			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
3-Nitroaniline			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
4-Bromophenyl phenyl ether			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
4-Chloro-3-methylphenol			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
4-Chloroaniline			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
4-Chlorophenyl phenyl ether			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
4-Nitroaniline			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
4-Nitrophenol			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Acenaphthylene	21000		8.8		3.8	U	89	J,O	770		87	J,O	42		21		1.2	J,O	2.3	J,O	600		760	
Acetophenone	3500		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	50	J,O	71	J,O
Atrazine	25		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Benzaldehyde	3000		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Benzo(g,h,i)perylene	7800000		4.2	U	3.8	U	210	U	220		210	U	14		4	U	4	U	0.77	J,O	200	J,O	270	
Benzyl butyl phthalate	150000		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Bis(2-chloroethoxy)methane			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
bis(2-Chloroethyl) Ether	0.14		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Bis(2-chloroisopropyl) ether			420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Bis(2-ethylhexyl) phthalate	7200		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L76A		L77		L79		L79		L79		L80		L80		L80		L81		L81		L81	
		Date	12/12/2015		12/11/2015		12/9/2015		12/9/2015		12/13/2015		12/9/2015		12/9/2015		12/9/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	76AL34		77L33		79L19		79L21		79AL31		80L16.9		80L18.9		80L29.3		81L09		81L22.5		81L31.5	
		Start Depth (ft)	33		32		18		20		30.5		16.3		18.3		28.5		8		21.5		29.5	
		End Depth (ft)	34		33		19		21		31		16.9		18.9		29.3		9		22.5		31.5	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Caprolactam	18000		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Carbazole	370		67	J,O	380	U	520		3300		340	J,O	57	J,O	200	J,O	400	U	380	U	2200		2800	
Dibenzofuran	5200		97	J,O	200	U	1500		15000		1400		850		220		210	U	74	J,O	20000		24000	
Diethyl phthalate	19000		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Dimethyl phthalate			870		430		530		330		350		440		650		570		480		290		240	
Di-n-butylphthalate	19000		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Di-n-octylphthalate	280000		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Hexachlorobenzene (HCB)	2.6		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Hexachlorobutadiene	8.7		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Hexachlorocyclopentadiene (HCCP)			420	U,J,O	380	U,J,O	400	U	390	U	400	U,J,O	420	U	400	U	400	U	380	U	410	U	400	U
Hexachloroethane			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Isophorone	210		210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Nitrobenzene			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
n-Nitroso di-n-Propylamine			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
n-Nitrosodiphenylamine/Diphenylamine			210	U	200	U	210	U	200	U	210	U	220	U	210	U	210	U	200	U	210	U	210	U
Pentachlorophenol	31		420	U	380	U	400	U	390	U	400	U	420	U	400	U	400	U	380	U	410	U	400	U
Phenanthrene	68000		150		10		6600		68000		5200		2800		360		15	J,O	220		60000		98000	
Phenol	230		420	U	380	U	45	J,O	390	U	400	U	420	U	48	J,O	400	U	38	J,O	410	U	400	U
Carcinogenic PAHs Soil Concentrations (µg/kg)																								
Benzo(a)anthracene	180		5.5		3.8	U	320		3000		330		210	J,O	4.8		1.2	J,O	13		3800		5800	
Benzo(a)pyrene	59		4.2	U	3.8	U	89	J,O	910		88	J,O	58		4	U	4	U	2.3	J,O	900		1300	
Benzo(b)fluoranthene	600		4.2	U	3.8	U	140	J,O	1500		150	J,O	99		4	U	4	U	3.8		1600		2300	
Benzo(k)fluoranthene	5900		4.2	U	3.8	U	61	J,O	530		54	J,O	23		4	U	4	U	3.8	U	550		770	
Chrysene	18000		4.2		3.8	U	290		2700		280		190	J,O	4		1.2	J,O	8.8		3000		4800	
Dibenzo(a,h)anthracene	190		4.2	U	3.8	U	210	U	85	J,O	210	U	5.1		4	U	4	U	3.8	U	96	J,O	130	J,O
Indeno (1,2,3-cd) pyrene	2000		4.2	U	3.8	U	210	U	240		210	U	15		4	U	4	U	0.77	J,O	220		330	
Naphthalene	210		920		160		5300		27000		3900		150		730		140	J,O	28		50000		67000	
Total CPAHs		2500	930		160		6200		35965		4802		750		739		142.4		57		60166		82430	
Noncarcinogenic PAHs Soil Concentrations (µg/kg)																								
Acenaphthene	8400		130		4.6		2200		28000		2100		1200		160		2.9	J,O	130		29000		44000	
Anthracene	660000		11		3.8	U	740		10000		430		240		4	U	4	U	3.8	U	4600		6900	
Fluoranthene	330000		71	J,O	3.5	J,O	2300		24000	J,O	2400	J,O	1400		91		3.7	J,O	110		25000	J,O	38000	J,O
Fluorene	56000		80		4.2		1900		26000		1700		1000		150		4.1		120		25000		31000	
Pyrene	220000		41	J,O	3.8	U	1400		14000		1300		920		63	J,O	4	U	110	J,O	14000		21000	
2-Methylnaphthalene	1600		120		15		1600		16000		1500		230		140		16		60		23000		25000	
Total PAHs		100000	1383		187		16340		153965		14232		5740		1343		169		587		180766		248330	
Total SVOCs			**2576**		**627**		**26084**		**246285**		**22009**		**10163**		**2889**		**755**		**1402**		**269156**		**381371**	

Notes:
PAH listing from the RSLs.
CPAH - carcinogenic polycyclic aromatic hydrocarbons
J - result is estimated
NA - not analyzed for
O - result is estimated
PAH - polycyclic aromatic hydrocarbons
U - The analyte was not detected at or above the reporting limit.
µg/kg - micrograms per kilograms
ft - foot
SVOCs - Semi-Volatile Organic Compounds

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L82		L83		L83		L83		L83		L83		L83		L83		L86		L86		L86	
		Date	12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50		83AL70		86L19.8		86L30.3		986L30.3	
		Start Depth (ft)	7.3		20.5		21.8		38		39.5		42		47		49.5		69		18.9		29.5		29.5	
		End Depth (ft)	7.9		21.5		22.2		39		40		43		48		50		70		19.8		30.3		30.3	
Analyte	NC LEACH 15 SEPT	ROD Soil Cleanup Goal	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	L83	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Semi Volatile Organics (ug/kg dry)																										
(3-and/or 4-)Methylphenol			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
1,1-Biphenyl	43000		210	U	31000		11000		370		220	U	220	U	220	U	220	U	200	U	99000	J,O	250		370	
1,2,4,5-Tetrachlorobenzene	97		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
1,4-Dioxane	12		82	U,J,O	78	U,J,O	82	U,J,O	82	U,J,O	87	U,J,O	85	U	86	U,J,O	85	U	79	U	80	U,J,O	75	U	76	U
2,3,4,6-Tetrachlorophenol	13000		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2,4,5-Trichlorophenol	2500		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2,4,6-Trichlorophenol	160		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2,4-Dichlorophenol	14		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2,4-Dimethylphenol	1400		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	330		190	U	190	U
2,4-Dinitrophenol			400	U,J,O	390	U,J,O	400	U,J,O	400	U,J,O	430	U,J,O	420	U,J,O	430	U,J,O	420	U,J,O	390	U,J,O	390	U,J,O	370	U,J,O	380	U,J,O
2,4-Dinitrotoluene	1.6		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2,6-Dinitrotoluene			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2-Chloronaphthalene			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2-Chlorophenol	4.1		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2-Methyl-4,6-dinitrophenol			400	U	NA		400	U	400	U	430	U	420	U	430	U	420	U	390	U	NA		370	U	380	U
2-Methylphenol	4100		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
2-Nitroaniline			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
2-Nitrophenol			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
3,3'-Dichlorobenzidine			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
3-Nitroaniline			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
4-Bromophenyl phenyl ether			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
4-Chloro-3-methylphenol			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
4-Chloroaniline			400	U	NA		400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
4-Chlorophenyl phenyl ether			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
4-Nitroaniline			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
4-Nitrophenol			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Acenaphthylene	21000		4	U	6800		1600		87	J,O	2.2	J,O	9.3		4.3	U	1.3	J,O	3.9	U	12000		72	J,O	110	J,O
Acetophenone	3500		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	120	J,O	370	U	380	U
Atrazine	25		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Benzaldehyde	3000		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Benzo(g,h,i)perylene	7800000		4	U	1700		510		210	U	4.3	U	2.1	J,O	4.3	U	4.2	U	3.9	U	2300		190	U	190	U
Benzyl butyl phthalate	150000		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Bis(2-chloroethoxy)methane			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
bis(2-Chloroethyl) Ether	0.14		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Bis(2-chloroisopropyl) ether			400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Bis(2-ethylhexyl) phthalate	7200		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L82		L83		L83		L83		L83		L83		L83		L83		L86		L86		L86	
		Date	12/11/2015		12/12/2015		12/12/2015		12/12/2015		12/13/2015		12/13/2015		12/13/2015		12/13/2015		12/10/2015		12/10/2015		12/10/2015	
		Sample Identification No.	82L7.9		83L21.5		83L22.2		83L39		83AL40		83AL43		83AL48		83AL50		83AL70		86L19.8		86L30.3		986L30.3	
		Start Depth (ft)	7.3		20.5		21.8		38		39.5		42		47		49.5		69		18.9		29.5		29.5	
		End Depth (ft)	7.9		21.5		22.2		39		40		43		48		50		70		19.8		30.3		30.3	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**L83**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Caprolactam	18000		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Carbazole	370		400	U	27000		10000	J,O	620		430	U	46	J,O	430	U	420	U	390	U	62000		220	J,O	310	J,O
Dibenzofuran	5200		51	J,O	92000		38000		1400		220	U	120	J,O	220	U	50	J,O	200	U	360000		970		1500	
Diethyl phthalate	19000		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Dimethyl phthalate			390		250		210		800		820		410		520		400		370		200	U	420		530	
Di-n-butylphthalate	19000		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Di-n-octylphthalate	280000		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Hexachlorobenzene (HCB)	2.6		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Hexachlorobutadiene	8.7		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Hexachlorocyclopentadiene (HCCP)			400	U,J,O	390	U,J,O	400	U,J,O	400	U,J,O	430	U,J,O	420	U,J,O	430	U,J,O	420	U,J,O	390	U,J,O	390	U,J,O	370	U	380	U
Hexachloroethane			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Isophorone	210		210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Nitrobenzene			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
n-Nitroso di-n-Propylamine			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
n-Nitrosodiphenylamine/Diphenylamine			210	U	200	U	210	U	210	U	220	U	220	U	220	U	220	U	200	U	200	U	190	U	190	U
Pentachlorophenol	31		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	380	U
Phenanthrene	68000		180	J,O	410000		1000000		4200		62	J,O	460		6		98		30		1200000		2900	J	5600	J
Phenol	230		400	U	390	U	400	U	400	U	430	U	420	U	430	U	420	U	390	U	390	U	370	U	38	J,O
Carcinogenic PAHs Soil Concentrations (µg/kg)																										
Benzo(a)anthracene	180		4	U	36000		9700		300		2.2	J,O	31	J,O	4.3	U	6.4	J,O	1.6	J,O	93000		230		380	
Benzo(a)pyrene	59		4	U	10000		2300		81	J,O	4.3	U	7.6		4.3	U	4.2	U	3.9	U	10000		66	J,O	110	J,O
Benzo(b)fluoranthene	600		4	U	17000		4500	J,O	120	J,O	4.3	U	14		4.3	U	4.2	U	3.9	U	17000		110	J,O	190	J
Benzo(k)fluoranthene	5900		4	U	7100		1500		63	J,O	4.3	U	4.7		4.3	U	4.2	U	3.9	U	5100		190	U	60	J,O
Chrysene	18000		4	U	34000		8500		270		1.7	J,O	25		4.3	U	4.7		1.2	J,O	81000		200		330	
Dibenzo(a,h)anthracene	190		4	U	630		220		210	U	4.3	U	4.2	U	4.3	U	4.2	U	3.9	U	880		190	U	190	U
Indeno (1,2,3-cd) pyrene	2000		4	U	1900		610		210	U	4.3	U	2.1	J,O	4.3	U	4.2	U	3.9	U	2500		190	U	190	U
Naphthalene	210		130	J,O	140000		83000		3900		220		240		37		430		55		840000		1500		1700	
Total CPAHs		2500	130		246630		110330		4734		224		324		37		441		57.8		1049480		2106		2770	
Noncarcinogenic PAHs Soil Concentrations (µg/kg)																										
Acenaphthene	8400		74	J,O	150000		54000		1900		20		180		1.3	J,O	36		11		520000		1300		2000	
Anthracene	660000		4	U	45000		14000		470		3.9	J,O	40		4.3	U	11		3.9	U	85000		230		360	
Fluoranthene	330000		96	J,O	160000		67000		2200		17	J,O	200	J,O	3.4	J,O	36		9.5		650000		1700		2700	
Fluorene	56000		58	J,O	120000		47000		1500		16		180		1.3	J,O	47		11		430000		1100		1800	
Pyrene	220000		55	J,O	130000		39000		1200		16	J,O	180	J,O	4.3	U	31	J,O	3.9	U	360000		1000		1600	
2-Methylnaphthalene	1600		50	J,O	87000		35000		1300		33		100		3	J,O	91		12		330000		710		960	
Total PAHs		100000	463		938630		366330		13304		330		1204		46		693		101.3		3424480		8146		12190	
Total SVOCs			**1084**		**1507380**		**1427650**		**20781**		**1152**		**2252**		**572**		**1242**		**501**		**5160230**		**12978**		**20648**	

Notes:
PAH listing from the RSLs.
CPAH - carcinogenic polycyclic aromatic hydrocarbons
J - result is estimated
NA - not analyzed for
O - result is estimated
PAH - polycyclic aromatic hydrocarbons
U - The analyte was not detected at or above the reporting limit.
µg/kg - micrograms per kilograms
ft - foot
SVOCs - Semi-Volatile Organic Compounds

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L86		L89		L89		L89		L89		L94		L95		L95		L97		L97		L97		L97	
		Date	12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015		12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	86L06		89L13.5		89L16.5		89L20.5		989L20.5		94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	5		12.5		15.5		19.5		19.5		3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	6		13.5		16.5		20.5		20.5		4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Semi Volatile Organics (ug/kg dry)																										
(3-and/or 4-)Methylphenol			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	220	J,O	2000	
1,1-Biphenyl	**43000**		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	4400	J,O	4300	J,O	16000		**180000**	
1,2,4,5-Tetrachlorobenzene	97		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
1,4-Dioxane	12		83	U	83	U,J,O	84	U,J,O	79	U,J,O	78	U,J,O	84	U	85	U	77	U	77	U,J,O	79	U,J,O	80	U,J,O	76	U,J,O
2,3,4,6-Tetrachlorophenol	13000		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2,4,5-Trichlorophenol	2500		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2,4,6-Trichlorophenol	160		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2,4-Dichlorophenol	14		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2,4-Dimethylphenol	**1400**		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	380		**4000**	**J,O**
2,4-Dinitrophenol			410	U,J,O	410	U,J,O	410	U,J,O	390	U,J,O	390	U,J,O	410	U,J,O	420	U,J,O	380	U,J,O	380	U,J,O	390	U,J,O	390	U,J,O	380	U,J,O
2,4-Dinitrotoluene	1.6		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2,6-Dinitrotoluene			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2-Chloronaphthalene			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2-Chlorophenol	4.1		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2-Methyl-4,6-dinitrophenol			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	NA		NA	
2-Methylphenol	4100		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	150	J,O	990	
2-Nitroaniline			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
2-Nitrophenol			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
3,3'-Dichlorobenzidine			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
3-Nitroaniline			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
4-Bromophenyl phenyl ether			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U,J,O
4-Chloro-3-methylphenol			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
4-Chloroaniline			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
4-Chlorophenyl phenyl ether			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
4-Nitroaniline			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
4-Nitrophenol			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
Acenaphthylene	**21000**		2.9	J,O	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	8.9		4.2		780		950		2400		20000	
Acetophenone	3500		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	54	J,O	380	U
Atrazine	25		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U,J,O
Benzaldehyde	3000		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
Benzo(g,h,i)perylene	7800000		4.1	U	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	0.93	J,O	3.8	U	150	J,O	230		670		6600	
Benzyl butyl phthalate	150000		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	NA	
Bis(2-chloroethoxy)methane			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
bis(2-Chloroethyl) Ether	0.14		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
Bis(2-chloroisopropyl) ether			410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	380	U
Bis(2-ethylhexyl) phthalate	7200		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	NA	

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-3
SVOC Soil Results - December 2015
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

		Sample Location	L86		L89		L89		L89		L89		L94		L95		L95		L97		L97		L97		L97	
		Date	12/10/2015		12/12/2015		12/12/2015		12/12/2015		12/12/2015		12/9/2015		12/10/2015		12/10/2015		12/11/2015		12/11/2015		12/11/2015		12/11/2015	
		Sample Identification No.	86L06		89L13.5		89L16.5		89L20.5		989L20.5		94L4.5		95L30.5		95L31.5		97L21.5		997L21.5		97L28.5		97L35.5	
		Start Depth (ft)	5		12.5		15.5		19.5		19.5		3.5		29.5		30.5		20.5		20.5		27.5		34.5	
		End Depth (ft)	6		13.5		16.5		20.5		20.5		4.5		30.5		31.5		21.5		21.5		28.5		35.5	
Analyte	**NC LEACH 15 SEPT**	**ROD Soil Cleanup Goal**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**	**Result**	**Qualifier**
Caprolactam	18000		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	NA	
Carbazole	370		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	2100		3000		10000	J,O	69000	
Dibenzofuran	5200		210	U	210	U	210	U	200	U	200	U	210	U	68	J,O	200	U	16000	J	16000	J	58000		680000	
Diethyl phthalate	19000		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	NA	
Dimethyl phthalate			390		480		610		500		480		480		590		540		350		400		320		NA	
Di-n-butylphthalate	19000		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	NA	
Di-n-octylphthalate	280000		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	390	U	NA	
Hexachlorobenzene (HCB)	2.6		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U,J,O
Hexachlorobutadiene	8.7		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
Hexachlorocyclopentadiene (HCCP)			410	U	410	U,J,O	410	U,J,O	390	U,J,O	390	U,J,O	410	U	420	U	380	U	380	U,J,O	390	U,J,O	390	U,J,O	380	U,J,O
Hexachloroethane			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
Isophorone	210		210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
Nitrobenzene			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
n-Nitroso di-n-Propylamine			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U
n-Nitrosodiphenylamine/Diphenylamine			210	U	210	U	210	U	200	U	200	U	210	U	220	U	200	U	190	U	200	U	200	U	190	U,J,O
Pentachlorophenol	31		410	U	410	U	410	U	6.7	J,O	3.1	J,O	410	U	8.5	U	7.7	U	380	U	390	U	390	U	380	U,J,O
Phenanthrene	68000		7.8	J,O	7.4		53		110	J	59	J	4.1	U	220	J,O	96	J,O	52000		57000		900000		2300000	
Phenol	230		410	U	410	U	410	U	390	U	390	U	410	U	420	U	380	U	380	U	390	U	91	J,O	300	J,O
Carcinogenic PAHs Soil Concentrations (µg/kg)																										
Benzo(a)anthracene	180		4.1	U	4.1	U	5	J,O	8.6		5.4		4.1	U	16	J,O	6.1	J,O	3000		4200	J,O	15000		170000	
Benzo(a)pyrene	59		4.1	U	4.1	U	4.1	U	2.4	J,O	3.9	U	4.1	U	3	J,O	3.8	U	830		1100		3800	J,O	28000	
Benzo(b)fluoranthene	600		4.1	U	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	5.1		3.8	U	1400		2000		6300		48000	
Benzo(k)fluoranthene	5900		4.1	U	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	4.2	U	3.8	U	580		650		1800		18000	
Chrysene	18000		4.1	U	4.1	U	3.3	J,O	7.1		4.3		4.1	U	11		4.6		2500		3500	J,O	12000		86000	
Dibenzo(a,h)anthracene	190		4.1	U	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	4.2	U	3.8	U	69	J,O	82	J,O	270		2200	
Indeno (1,2,3-cd) pyrene	2000		4.1	U	4.1	U	4.1	U	3.9	U	3.9	U	4.1	U	0.93	J,O	3.8	U	190		270		800		6400	
Naphthalene	210		2.1	J,O	7.4		25		46		31		4.1	U	900		73		36000		39000		570000		1600000	
Total CPAHs		2500	2.1		7.4		33		64.1		40.7		0		936		84		44569		50802		609970		1958600	
Noncarcinogenic PAHs Soil Concentrations (µg/kg)																										
Acenaphthene	8400		2.5	J,O	1.6	J,O	20		14		8.6		4.1	U	68		29		22000		23000		83000		1000000	
Anthracene	660000		4.1	U	4.1		4.1	U	11	J	6.2	J	4.1	U	19		8.2		2600		3900	J,O	13000		160000	J,O
Fluoranthene	330000		3.3	J,O	3.3	J,O	27		63	J,O	40	J,O	4.1	U	96		39	J,O	27000		30000		96000		1100000	
Fluorene	56000		3.3	J,O	2.1	J,O	19		20		12		4.1	U	78		31		19000		20000		71000		840000	
Pyrene	220000		4.1	U	4.1	U	24	J,O	49	J,O	32	J,O	4.1	U	100	J,O	29	J,O	15000		16000		55000		750000	
2-Methylnaphthalene	1600		1.2	J,O	1.2	J,O	14		9.4		6.2		4.1	U	130		20		14000	J	15000	J	57000		700000	
Total PAHs		100000	12.4		19.7		137		231		146		0		1427		240		144169		158702		984970		6508600	
Total SVOCs			**413**		**507**		**800**		**847**		**688**		**480**		**2315**		**880**		**219949**		**240582**		**1973035**		**9771490**	

Notes:
PAH listing from the RSLs.
CPAH - carcinogenic polycyclic aromatic hydrocarbons
J - result is estimated
NA - not analyzed for
O - result is estimated
PAH - polycyclic aromatic hydrocarbons
U - The analyte was not detected at or above the reporting limit.
µg/kg - micrograms per kilograms
ft - foot
SVOCs - Semi-Volatile Organic Compounds

Created By: S. Prouty 2/26/2016
Checked By: D. Scherbak 2/26/2016

Table 2-4
Summary of Geotechnical Testing
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

Sample Location	Sample ID	Sample Depth (ft bls)	Laboratory Soil Description	Field Soil Description	Field Soil Classification (USCS)	Natural ASTM Moisture %	Grain Size Distribution				
							Gravel %	Coarse Sand %	Med Sand %	Fine Sand %	Silt/ Clay %
L57	57L22.5	22.3	fine sand	silty sand	SM	17.20	0.0	0.7	31.6	48.2	19.5
L79	79L21	20.4	medium sand	sand	SP	18.70	0.0	5.8	70.1	19.6	4.5
L82	82L7.9	7.65	fine sand	silty clay	CL	15.30	0.0	0.3	19.5	39.1	41.1
L83	83L22	21.7	fine sand	silty sand	SM	21.20	0.0	0.0	27.6	67.2	5.3
	83L38	37.35	fine sand	sandy clay	CL	21.90	0.0	0.6	32.4	37.5	29.6
	83L37.5	36.9	fine sand	silty sand	SM	18.70	0.0	0.4	26.8	37.9	34.9
	83L39g	38.5	fine sand	sand	SP	-	0.0	0.0	4.9	81.4	13.7
L86	86L19.8	19.25	fine sand	sand	SP	19.10	0.1	1.1	31.3	42.4	25.1
L97	97L21.5	21.2	medium sand	sand	SP	18.3	1.3	4.5	45.8	40.5	7.9
	97L27.5	27.0	fine sand	sand	SP	22.8	0	0.3	19.5	75.3	4.9
	97L28.5	28.0	fine sand	sand	SP	20.70	0.0	0.1	46.7	46.6	6.6
	97L35.5	34.8	fine sand	silty sand	SM	15.60	0.0	0.2	35.2	40.5	24.0
L101	101L18.5	17.85	fine sand	clayey sand	SC	14.20	0.0	0.3	34.0	42.0	23.7
	101L29.5	29.3	medium sand	silty sand	SM	14.30	0.0	2.8	50.7	32.5	14.0
	101L34	33.8	fine sand	silty sand	SM	21.90	0.0	0.6	44.6	49.1	5.7

Notes:

ASTM - American Society for Testing and Materials

bls - below land surface

ft - feet

Grain Size Distribution - ASTM D422

L - TarGOST point

USCS - Unified Soil Classification System

% - percent

Created By: HSY
11/03/2015
Checked By: JLR
11/09/2015

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Table 2-5
2015 TarGOST Summary
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

Location	Date/Time	Y Coord.	X Coord.	Final Depth (ft)	Max Signal	Max Signal Depth	RE Area	Background Area
L71	12/10/2015 12:03	473364.76	1993338.58	37.01	107.60	20.37	1730.98	10.01
L72	12/9/2015 14:02	473308.14	1993299.28	37.06	201.56	26.63	1771.93	11.76
L73	12/10/2015 7:53	473254.12	1993277.91	37.00	28.03	0.11	1823.7	NA
L74	12/8/2015 11:43	473328.11	1993415.90	35.04	58.54	9.40	1744.25	25.02
L75	12/8/2015 10:52	473275.31	1993386.75	35.00	134.77	28.89	1745.81	NA
L76	12/8/2015 10:06	473219.03	1993358.25	35.10	61.13	17.03	1755.82	16.56
L77	12/7/2015 12:56	473024.44	1993458.05	35.05	35.68	12.67	1750.93	23.27
L78	12/8/2015 9:13	473141.25	1993330.03	35.01	25.58	23.88	1752.95	26.04
L79	12/7/2015 13:43	473095.41	1993420.14	35.00	142.30	20.71	1730.42	22.32
L80	12/8/2015 13:18	473302.24	1993477.12	35.01	61.16	29.03	1700.08	26.27
L81	12/7/2015 14:29	473178.01	1993474.23	35.01	51.91	21.65	1779.07	23.85
L82	12/7/2015 15:12	473238.27	1993478.94	35.06	36.99	0.04	1741.24	23.46
L83	12/8/2015 14:03	473235.12	1993429.56	35.00	66.00	19.46	1669.05	NA
L84	12/8/2015 8:25	473073.99	1993352.85	35.01	20.83	30.77	1783.29	24.81
L85	12/9/2015 7:57	473523.07	1993371.21	35.02	26.76	10.37	1667.49	29.14
L86	12/9/2015 9:50	473419.85	1993309.58	35.00	148.28	19.41	1687.19	12.27
L87	12/9/2015 11:25	473344.1	1993267.99	35.00	34.77	0.07	1816.2	NA
L88	12/10/2015 13:26	473462.59	1993381.94	37.02	17.45	0.05	1694.68	11.4
L89	12/8/2015 14:57	473502.28	1993440.28	35.04	25.78	12.62	1815.11	25.17
L90	12/8/2015 15:41	473463.14	1993422.76	35.05	130.49	0.03	1700.01	30.04
L91	12/10/2015 14:20	473432.18	1993405.13	37.00	43.79	22.88	1832.43	4.93
L92	12/7/2015 11:35	472968.2	1993225.42	35.04	20.97	8.05	1721.90	24.18
L93	12/7/2015 10:50	472953.54	1993271.78	35.08	21.20	7.27	1795.77	25.92
L94	12/7/2015 9:49	472776.27	199350.09	35.04	39.93	4.71	1857.96	30.91
L95	12/10/2015 9:25	473440.53	1993290.59	37.18	22.74	31.10	1811.04	11.5
L96	12/10/2015 10:49	473378.52	1993293.38	37.03	17.84	30.88	1764.83	NA
L97	12/11/2015 8:39	473256.59	1993399.53	39.20	167.57	35.63	1805.76	11.64
L972	12/9/2015 14:44	473308.14	1993299.28	37.05	207.30	26.28	1723.98	14.35
L98	12/11/2015 10:54	473302.88	1993426.59	37.04	88.50	21.18	1729.52	16.07
L99	12/11/2015 11:40	473347.05	1993449.35	37.00	23.42	12.08	1854.44	12.31
L991	12/10/2015 15:12	473432.18	1993405.13	37.02	62.93	23.47	1668.99	7.98
L100	12/11/2015 7:42	473116.47	1993487.43	37.01	82.88	23.08	1767.57	11.97
L101	12/11/2015 12:49	473170.28	1993429.60	38.01	127.01	22.35	1654.05	12.17
L102	12/11/2015 13:57	473200.73	1993433.01	38.01	145.00	11.33	1656.71	12.85
L103	12/11/2015 14:56	473335.18	1993341.29	38.00	239.23	28.34	1855.99	NA

[STATS]
Location Count=35
Total Depth=1263.2
Max Depth=39.2
Max Signal=239.2

Notes:
ft - feet
NA - not available

Created By: D.Scherbak 3/15/16
Checked By: E.Hicks 3/28/16

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Table 2-6
Product Mobility Summary
Cape Fear Site
Fayetteville, North Carolina

SAMPLE ID.[1]	**72L27M**	**97L29**
DEPTH (ft)	**26.5**	**28.55**
Analysis Date	**20160107**	**20160107**
Dry Bulk Density (g/cc)	1.67	1.45
Grain Density (g/cc)	2.64	2.64
Total Porosity (%Vb)	36.7	45.2
Initial Fluid Saturations		
Water Saturation (Swi)	60.4	49.4
NAPL Saturation (Soi)	9.2	25.0
After Centrifuge at 1000xG		
Water Saturation (Swi)	13.7	6.7
NAPL Saturation (Soi)	7.9	7.0

Notes:
Dark brown DNAPL produced. Produced clear water.
(1) Sample Orientation: Vertical
(2) Total Porosity = all interconnected pore channels.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.
Swi = Initial Water Saturation as received prior to centrifuging at 1000xG, Soi = Initial NAPL Saturation as received prior to centrifuging at 1000xG.
Srw = Residual Water Saturation after centrifuging at 1000xG, Sor = Residual NAPL Saturation after centrifuging at 1000xG.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

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Checked by A. Calloway 3/10/2016

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Table 2-7
Physical Properties Summary
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

SAMPLE ID.[1]	**L57**	**L79**	**L82**	**L83**	**L83**	**L83**	**L86**	**L97**	**L97**	**L97**	**L97**	**L101**	**L101**	**L101**
DEPTH (ft)	**22.3**	**20.4**	**7.65**	**21.6**	**37.35**	**36.9**	**19.3**	**21.05**	**27.0**	**28.0**	**34.8**	**17.85**	**29.3**	**33.8**
Grain Size Description	Fine sand	Medium sand	Fine sand	Fine sand	Fine sand	Fine sand	Fine sand	Medium sand	Fine sand	Fine sand	Fine sand	Fine sand	Medium sand	Fine sand
Moisture Content (% weight)	17.2	18.7	15.3	21.2	21.9	18.7	19.1	18.3	22.8	20.7	15.6	14.2	14.3	21.9
Dry Bulk Density (g/cc)	1.67	1.57	1.78	1.44	1.46	1.61	1.63	1.56	1.51	1.50	1.65	1.55	1.71	1.52
Grain Density (g/cc)	2.64	2.65	2.64	2.65	2.66	2.65	2.65	2.65	2.64	2.64	2.64	2.65	2.65	2.64
Total Porosity (%Vb)[2]	36.6	40.5	32.8	45.7	45.0	39.4	38.5	41.0	42.8	43.3	37.6	41.4	35.7	42.4
Air Filled Porosity (%Vb)[2]	7.9	11.3	5.7		13.0	9.6	7.4	12.5	8.5	12.5	12.3	19.4	11.5	9.4
Water Pore Fluid Saturation (% Pv)[3]	76.5	69.4	80.5	61.0	70.0	69.8	78.2	66.8	73.5	66.2	56.2	52.1	63.6	69.1
NAPL Pore Fluid Saturation (% Pv)[3]	1.8	2.8	2.2	5.2	1.3	5.8	2.6	2.9	6.6	5.0	11.1	1.1	4.3	8.6
TarGOST %RE Reading at sample depth	9.64	78.31	24.65	7.87	NA	NA	129.67	33.62	81.10	49.02	9.94	10.44	4.00	3.47

Notes:

(1) Sample Orientation: Vertical

(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids.

(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.

Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

RE - reference emitter

%RE - relative to RE

NA - L83 TarGOST boring stopped at 35 ft bgs.

Created by D. Scherbak 3/10/2016
Checked by A. Calloway 3/10/2016

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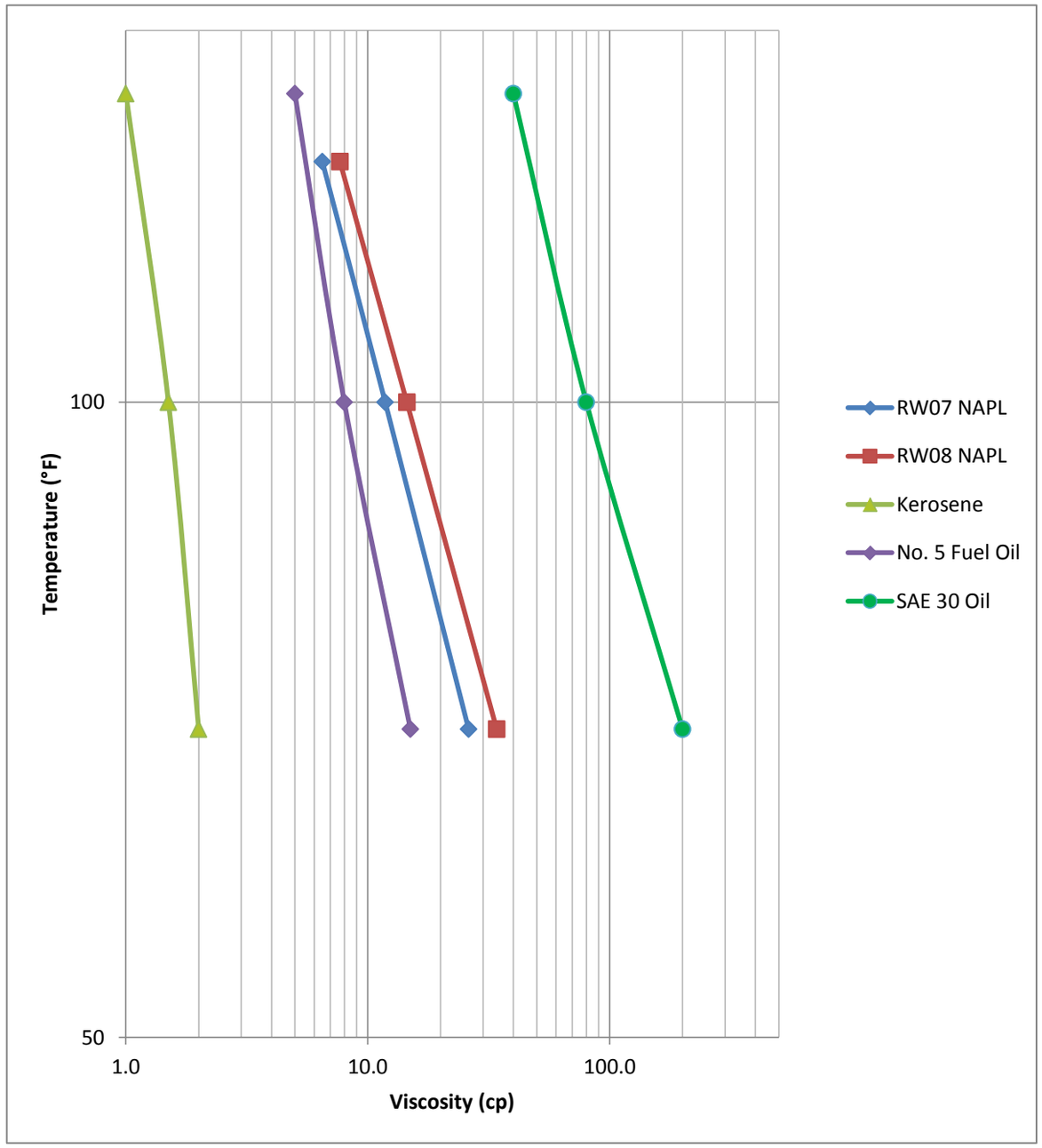
Table 2-8
NAPL Temperature vs Viscosity
Source Area Extraction Wells RW07R and RW08
Cape Fear Wood Preserving Site
Fayetteville, Cumberland County, North Carolina

Product	Temperature (°F)	Viscosity (cp)
RW07R	70	26.1
	100	11.8
	130	6.49
RW08	70	34.1
	100	14.5
	130	7.67
Kerosene*	70	2.0
	100	1.5
	140	1.0
No. 5 Fuel Oil*	70	15.0
	100	8.0
	140	5.0
SAE 30 Oil*	70	200.0
	100	80.0
	140	40.0



Notes:

°F - degrees Fahrenheit

cp - centipoise

RW - NAPL Source Area Recovery Well

ft bls - feet below land surface

* - Standard Viscosity-Temperature for Liquid Petroleum Products

PTS Laboratories Report 41810, January 2012

The viscosity of water at approximately 100F, η = 0.6560 mPa·s (cP) at 40 °C

Created by A. Calloway 3/24/2016
Checked by D. Scherbak 3/24/2016

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Figures

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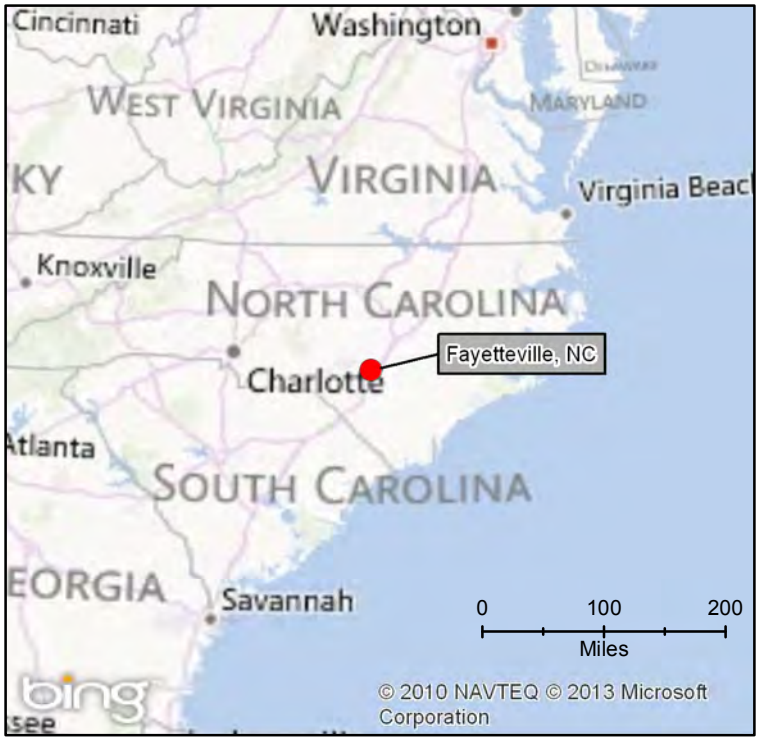

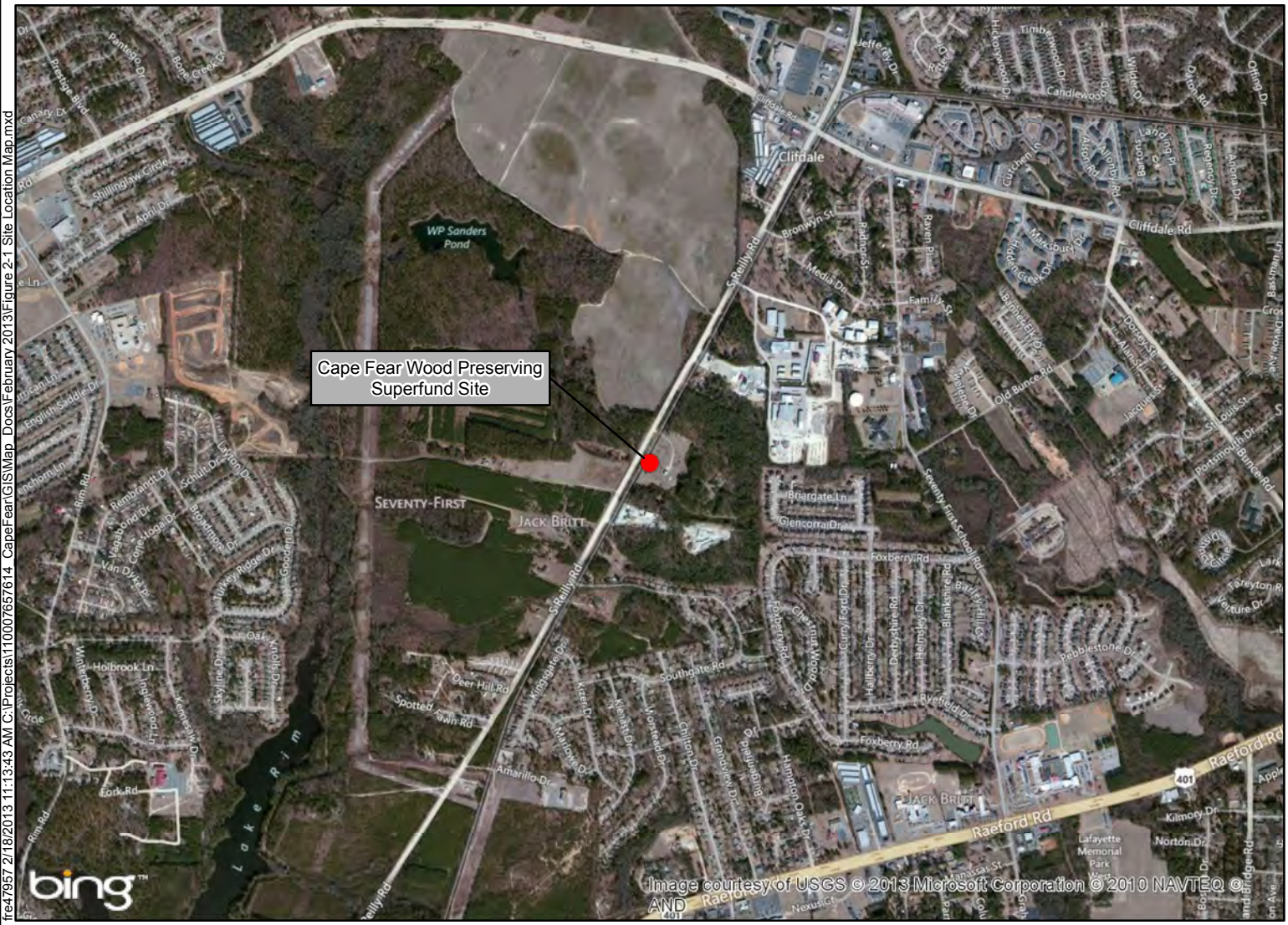

fre47957 2/18/2013 11:13:43 AM C:\Projects\110007657614_CapeFear\GIS\Map_Docs\February 2013\Figure 2-1 Site Location Map.mxd

N 0 0.25 0.5 Miles

NAD 83 State Plane NC, Feet

Site Location Map
Cape Fear Wood Preserving Superfund Site
Fayetteville, Cumberland County, North Carolina

Figure 1-1

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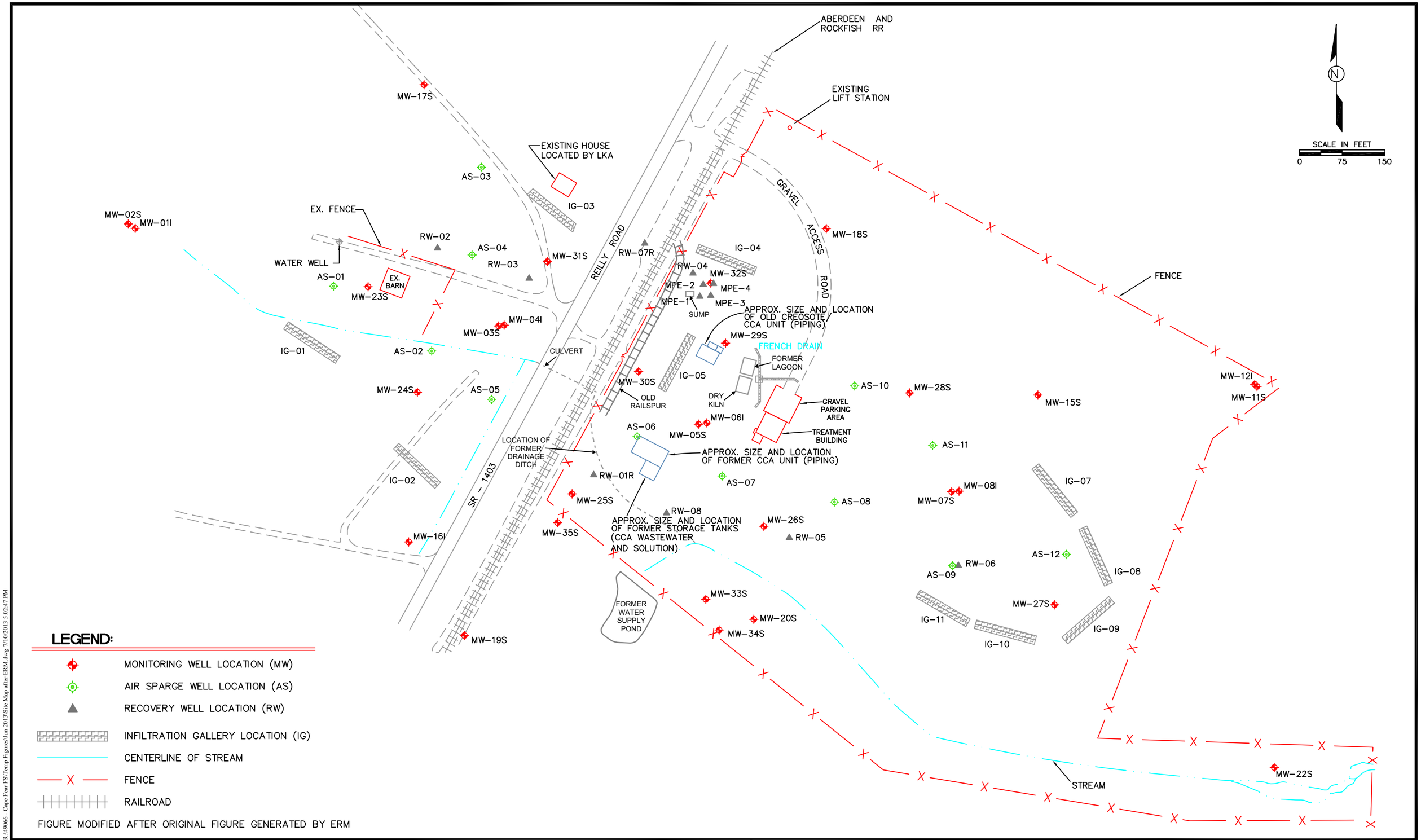

R:\49066 - Cape Fear FS\Temp Figures\Jun 2013\Site Map after ERM.dwg 7/10/2013 5:02:47 PM

CAPE FEAR WOOD PRESERVING SUPERFUND SITE
FAYETTEVILLE, NORTH CAROLINA

SITE LAYOUT MAP

FIGURE 1-2

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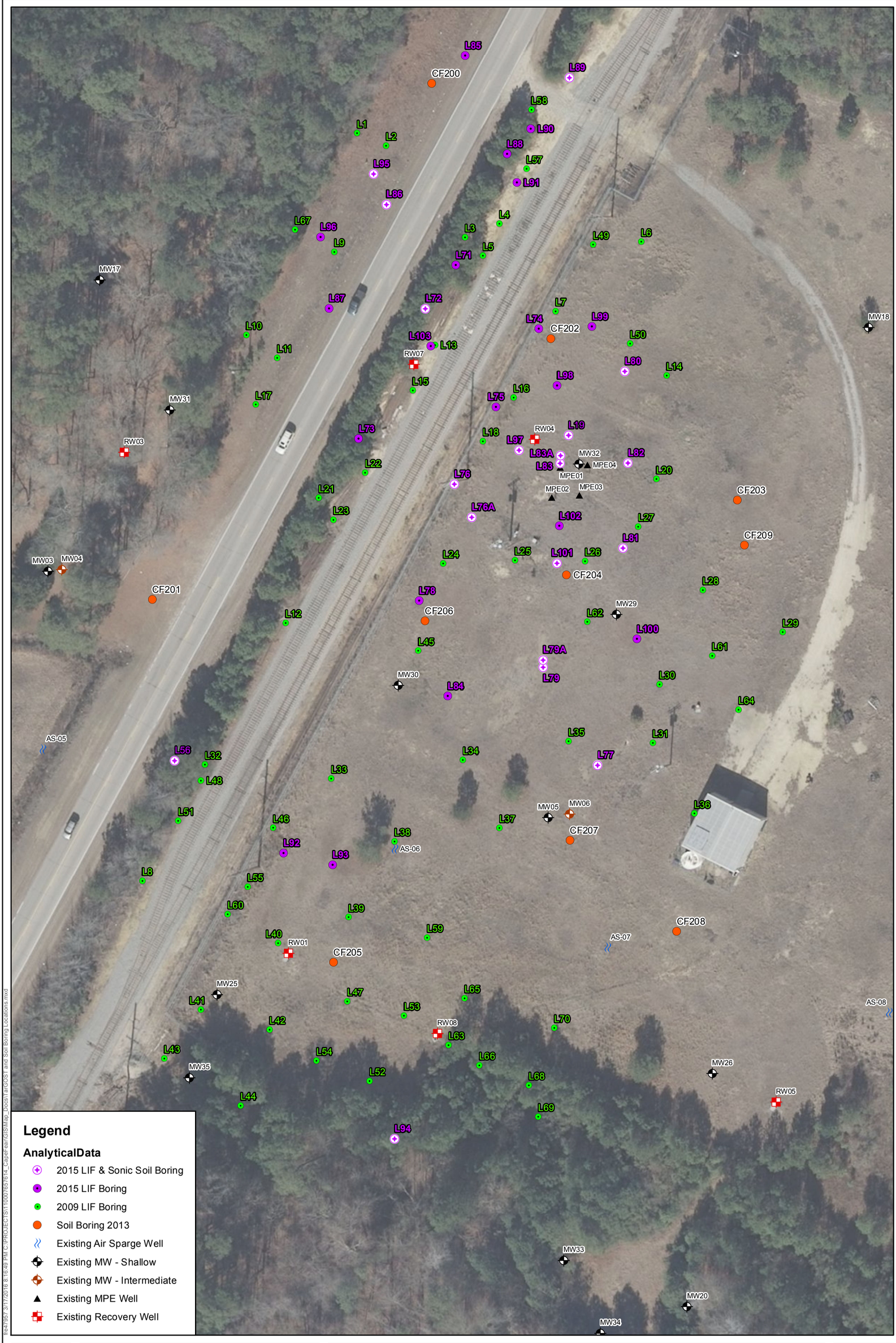

TarGOST and Soil Boring Locations
Cape Fear Wood Preserving Site
Fayetteville, North Carolina

Figure 2-1

fi24/957 3/17/2018 8:16:49 PM C:\PROJECTS\11000767\6714_CapeFearfGIS\Map_Docs\TarGOST and Soil Boring Locations.mxd

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Attachment A. TarGOST® Logs

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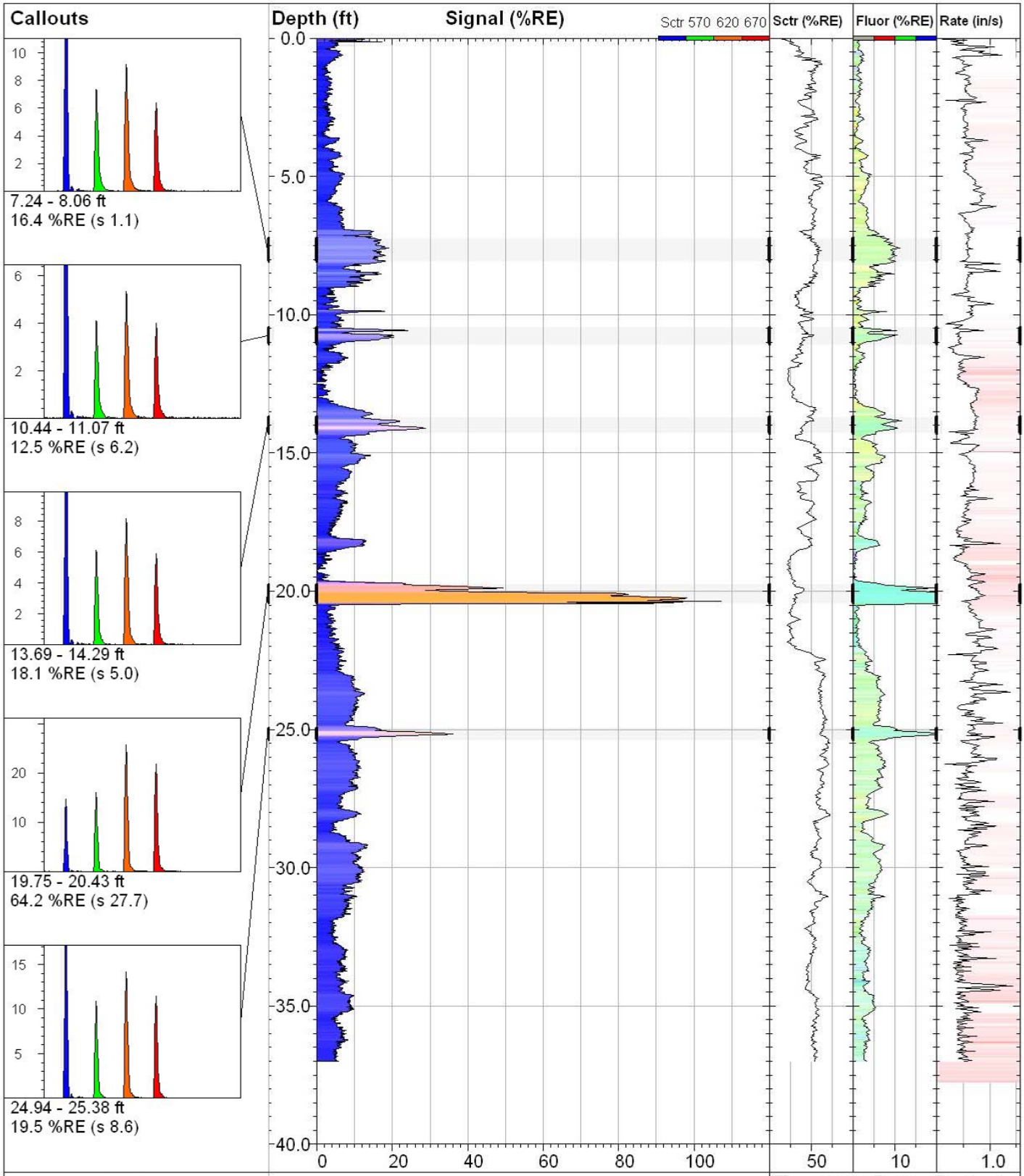

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TarGOST By Dakota
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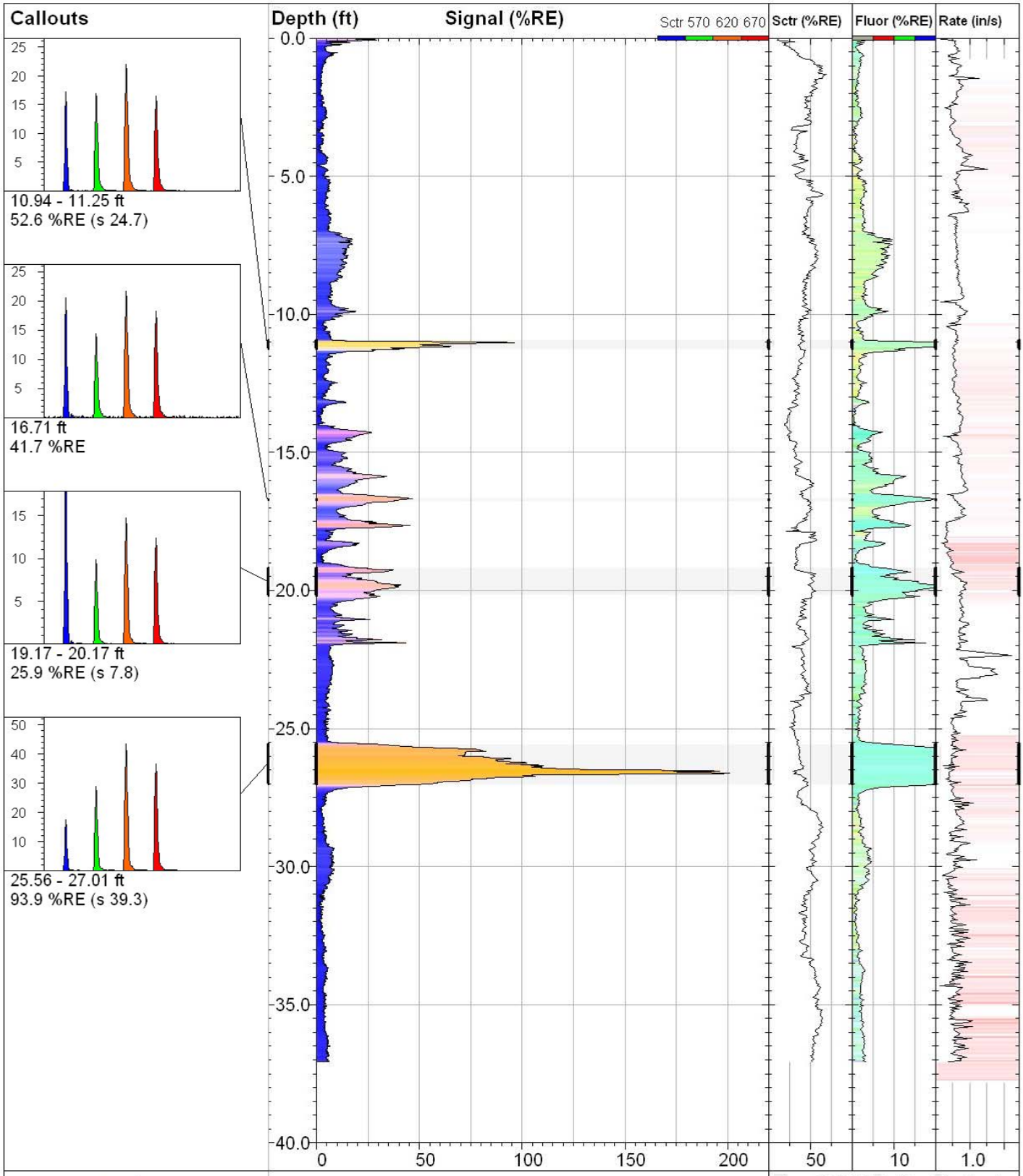
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473364.76 /**	*Final depth:* **37.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993338.58 /**	*Max signal:* **107.6 %RE @ 20.37 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 12:03 EST**



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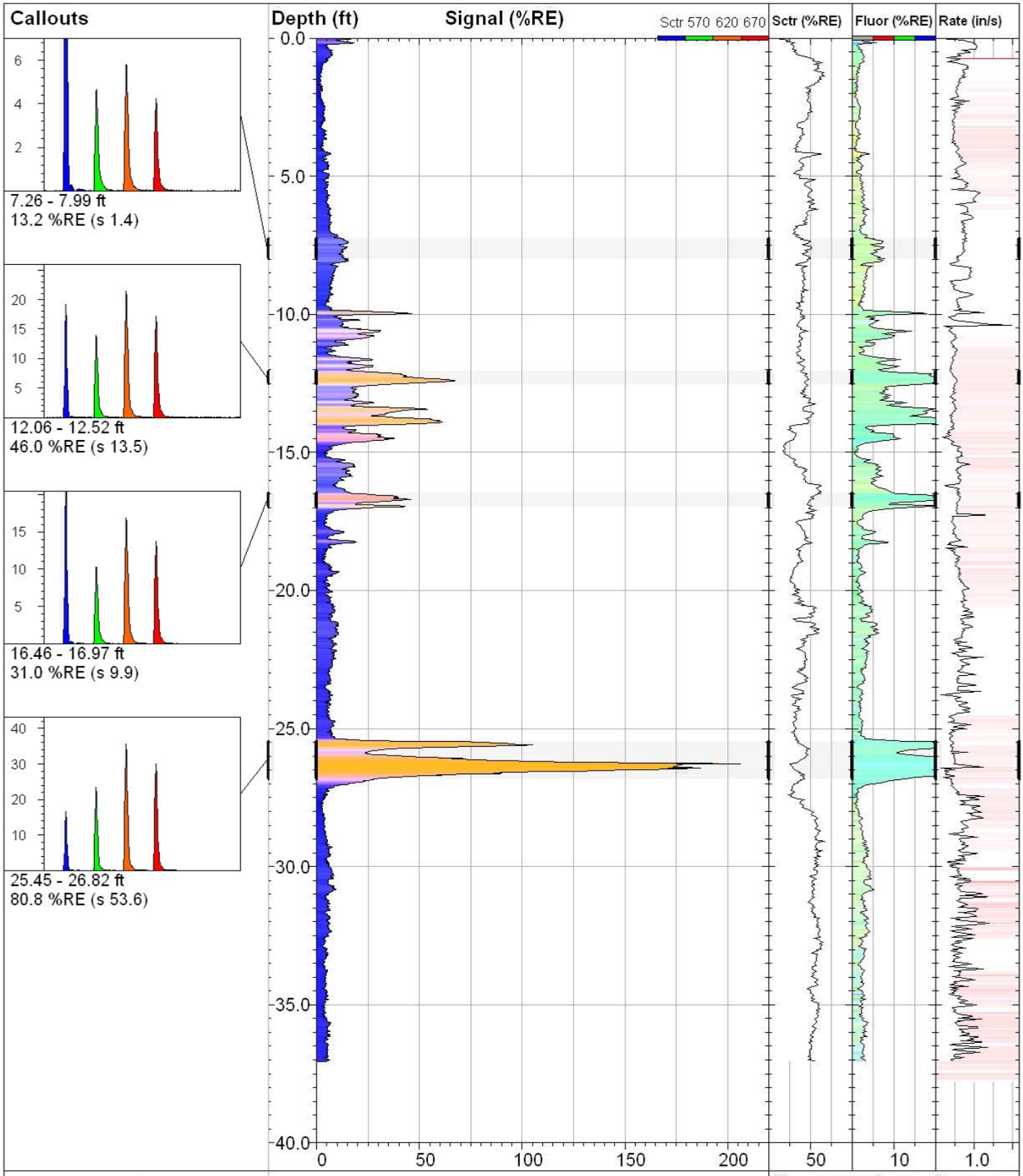
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473308.14 /**	*Final depth:* **37.06 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993299.28 /**	*Max signal:* **201.6 %RE @ 26.63 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-09 14:02 EST**



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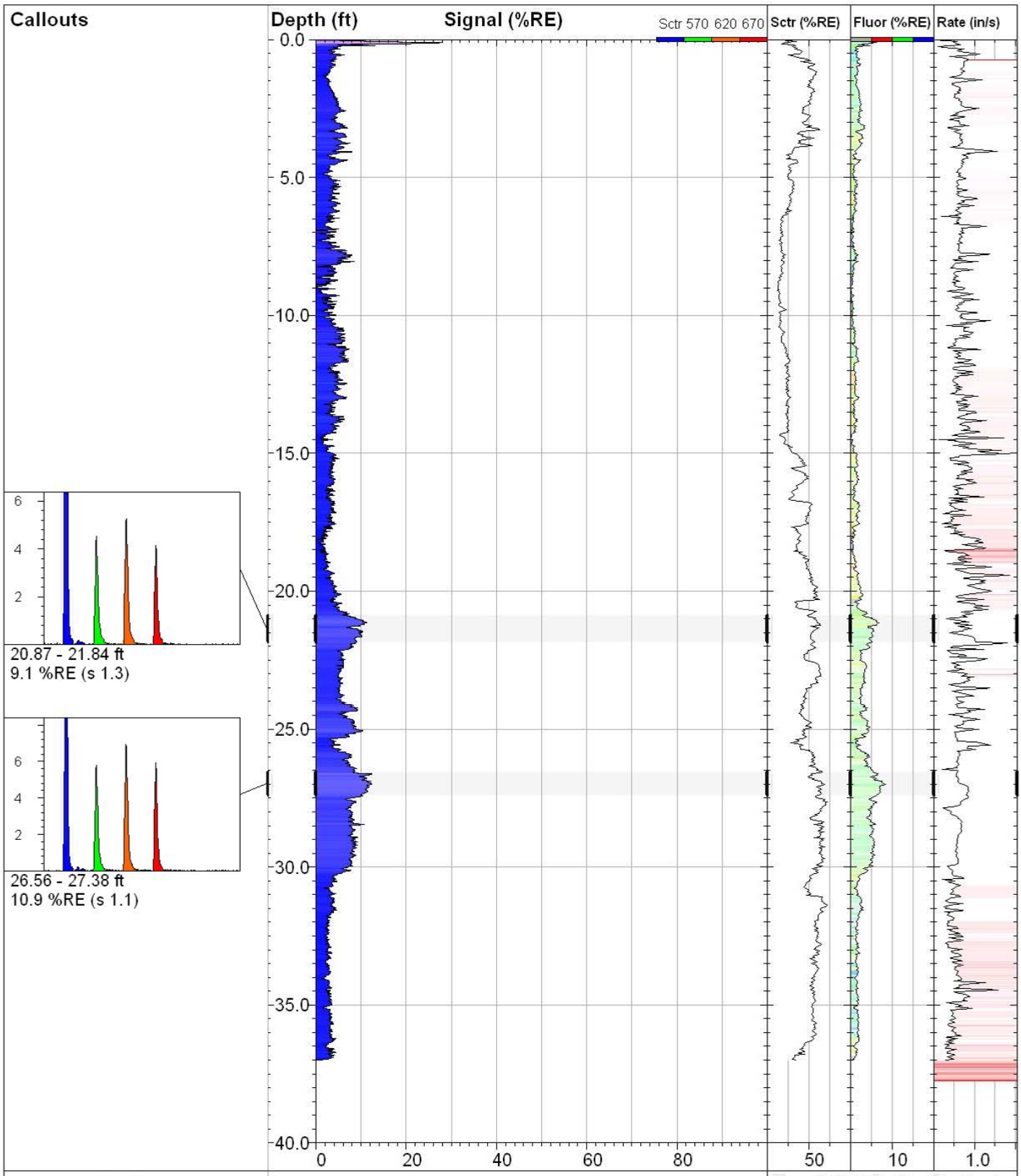
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473308.14 /**	*Final depth:* **37.05 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993299.28 /**	*Max signal:* **207.3 %RE @ 26.28 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-09 14:44 EST**



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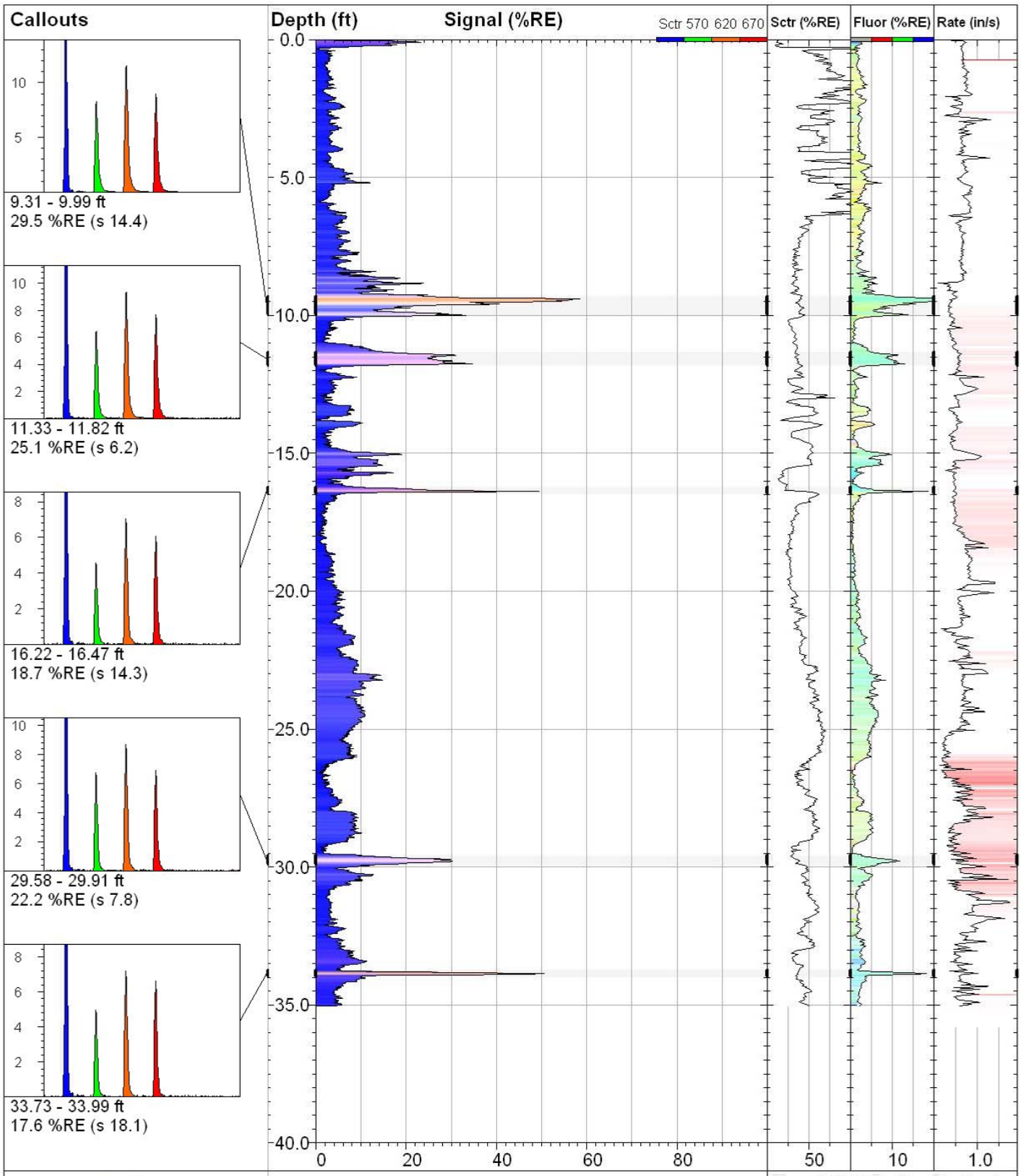
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473254.12 /**	*Final depth:* **37.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993277.91 /**	*Max signal:* **28.0 %RE @ 0.11 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 07:53 EST**



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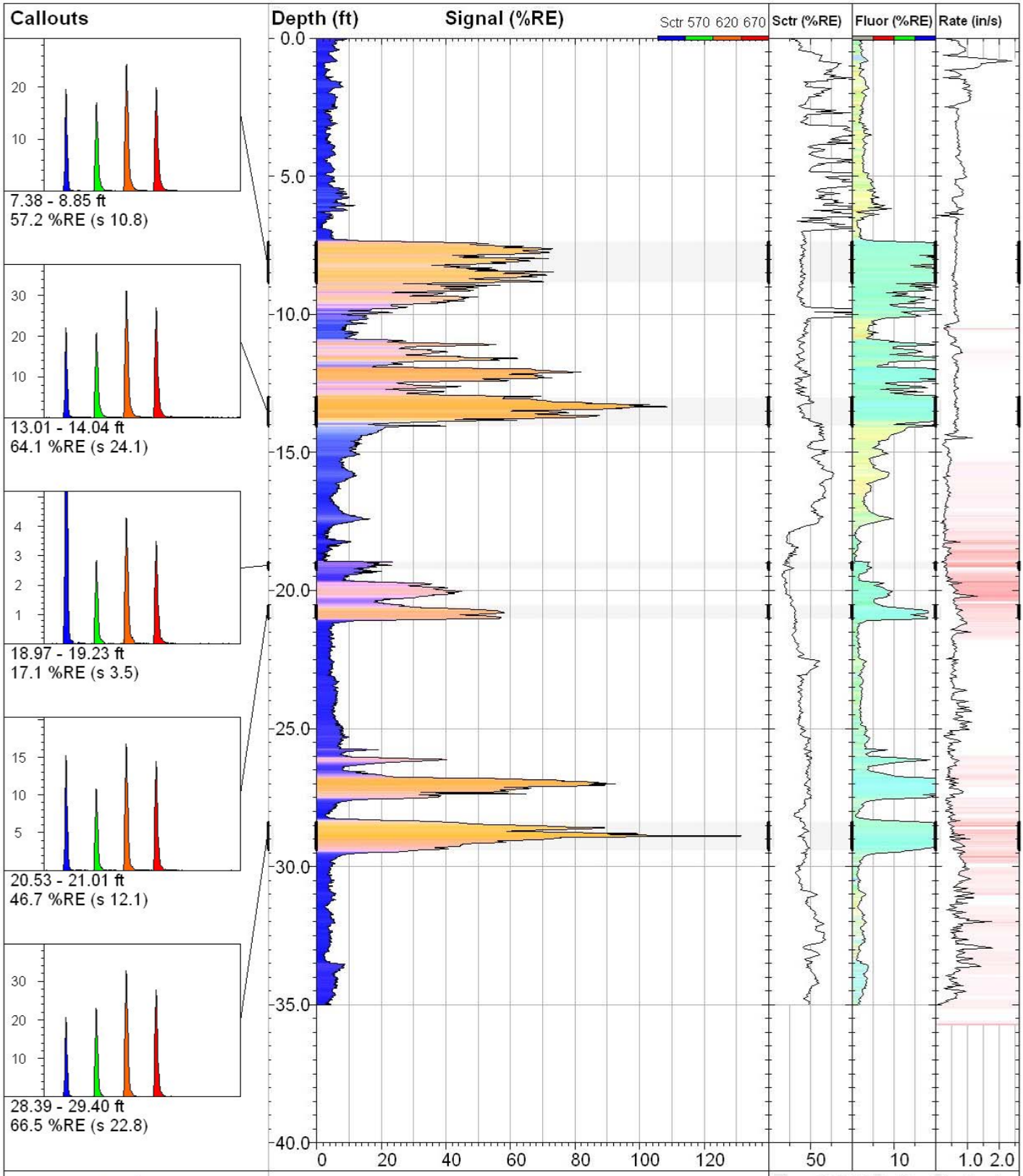
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473328.11 /**	*Final depth:* **35.04 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993415.90 /**	*Max signal:* **58.5 %RE @ 9.40 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 11:43 EST**



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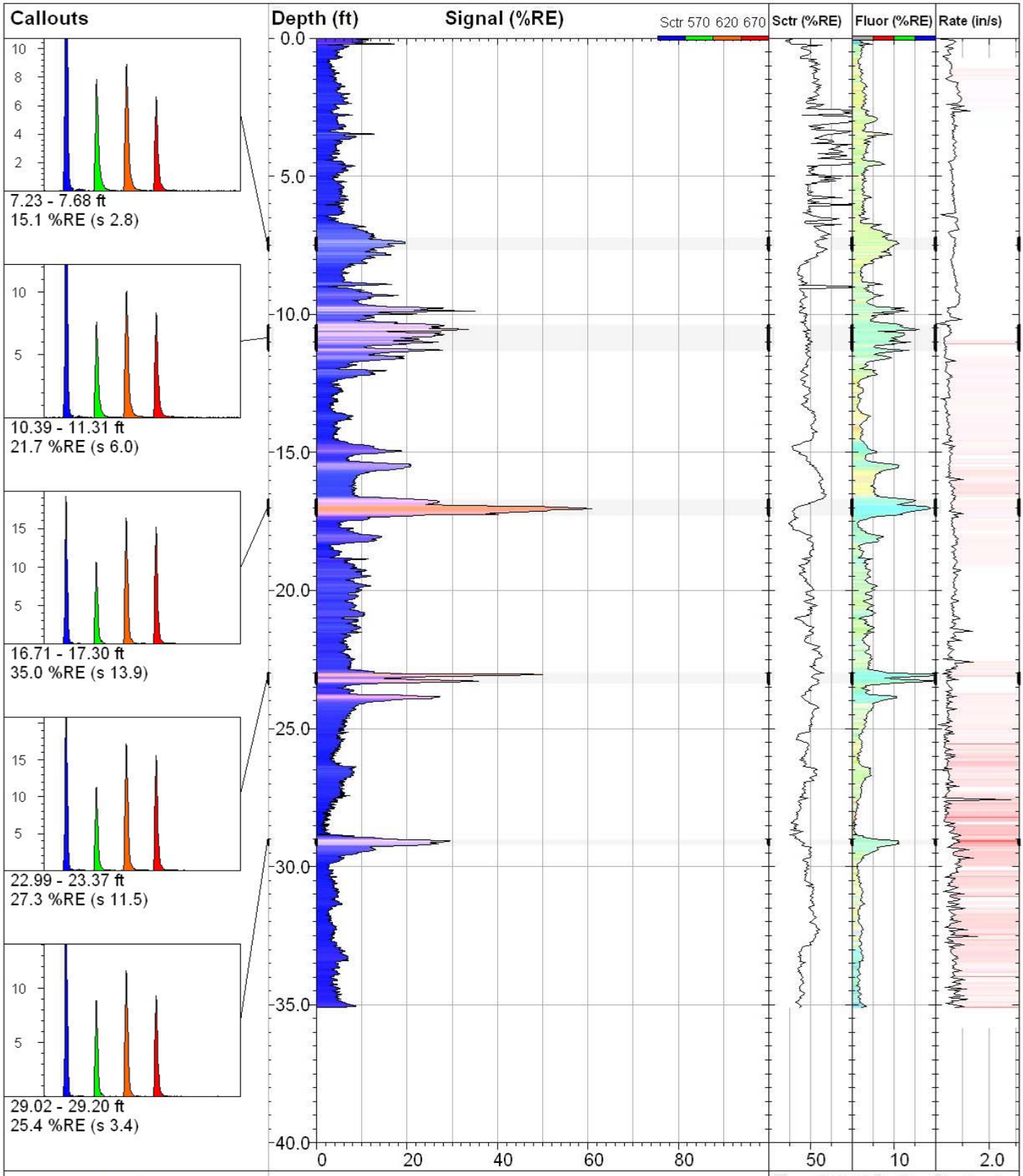
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473275.31 /**	*Final depth:* **35.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993386.75 /**	*Max signal:* **134.8 %RE @ 28.89 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 10:52 EST**



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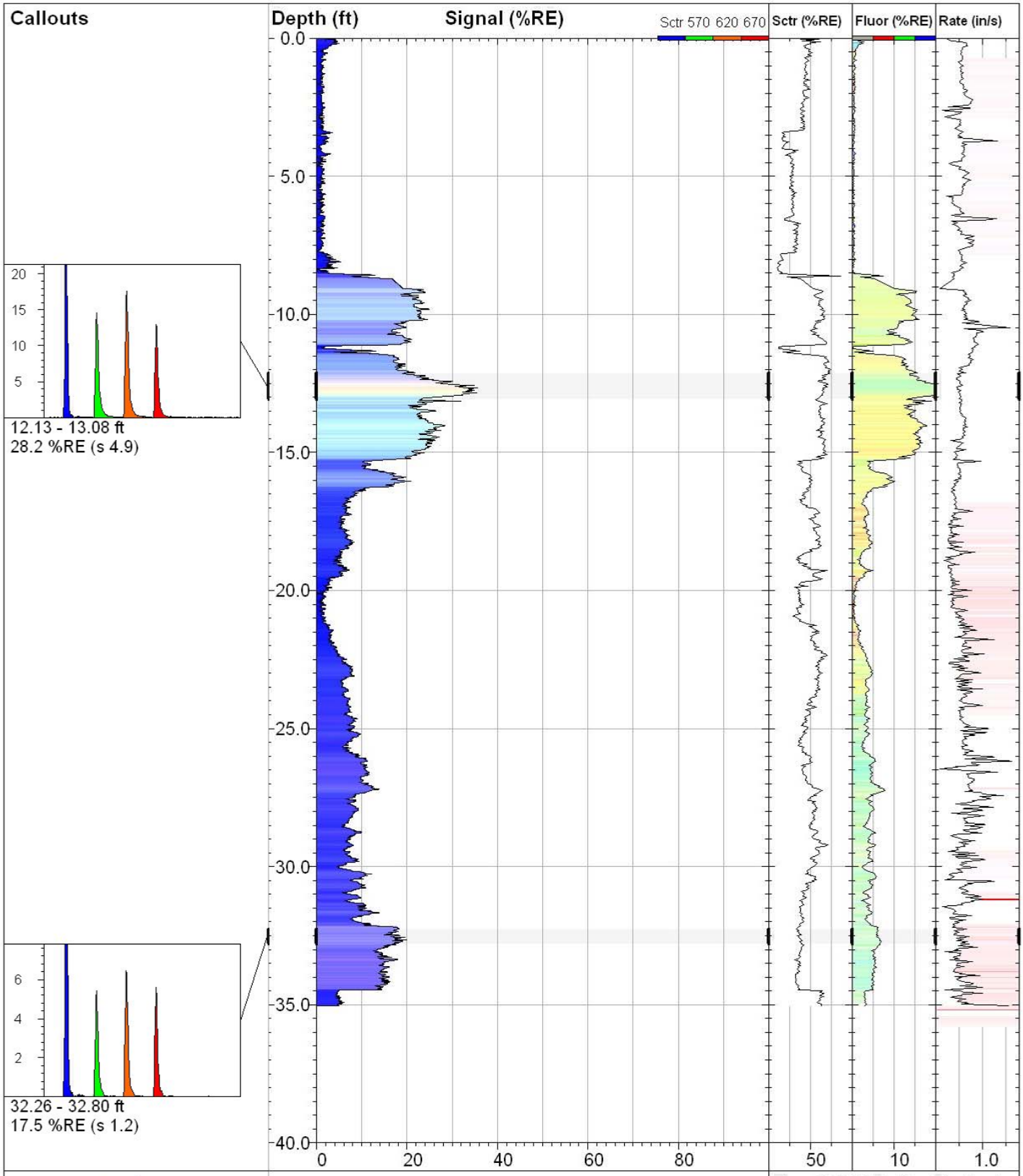
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473219.03 /**	*Final depth:* **35.10 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993358.25 /**	*Max signal:* **61.1 %RE @ 17.03 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 10:06 EST**



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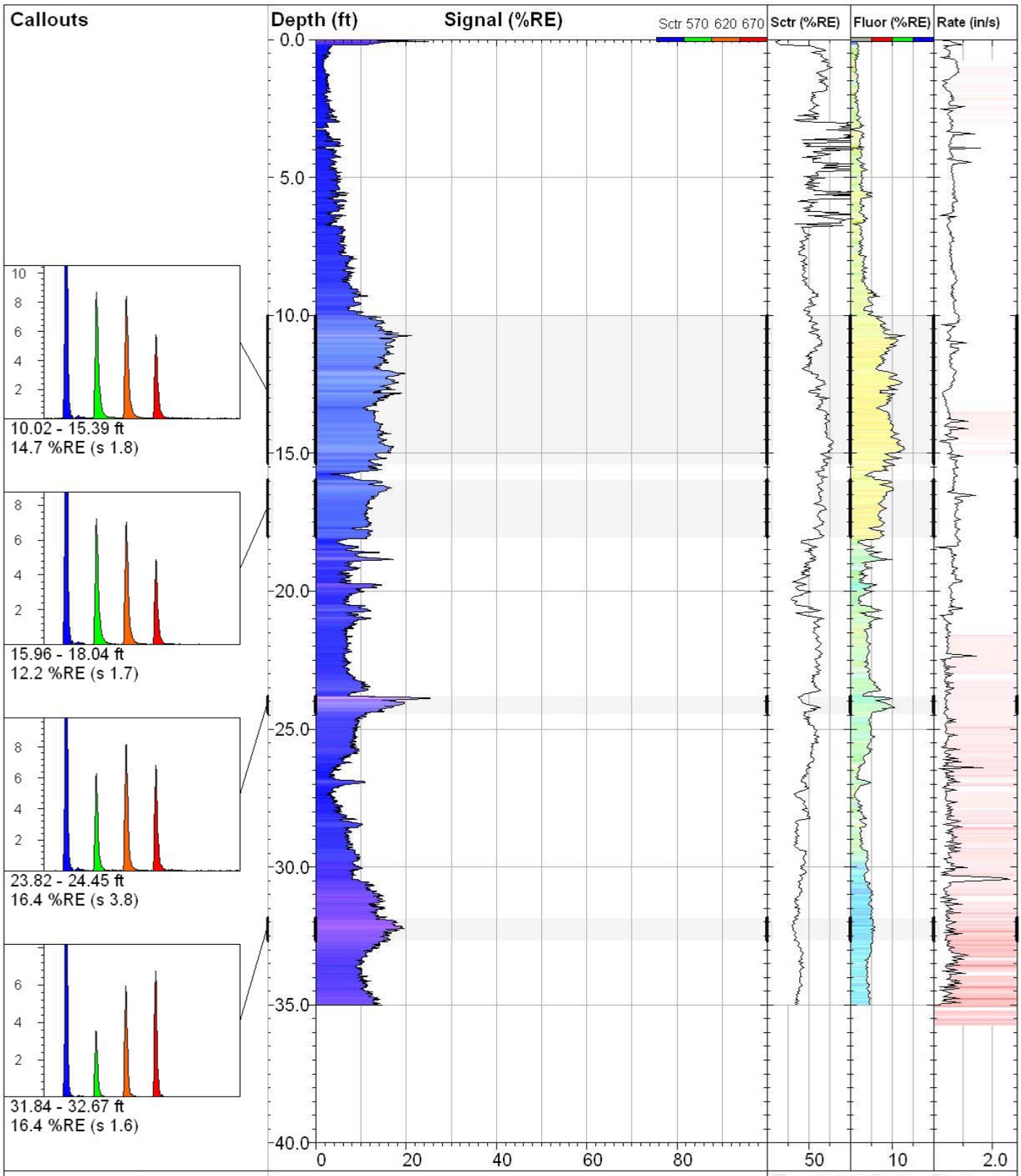
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473024.44 /**	*Final depth:* **35.05 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993458.05 /**	*Max signal:* **35.7 %RE @ 12.67 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 12:56 EST**



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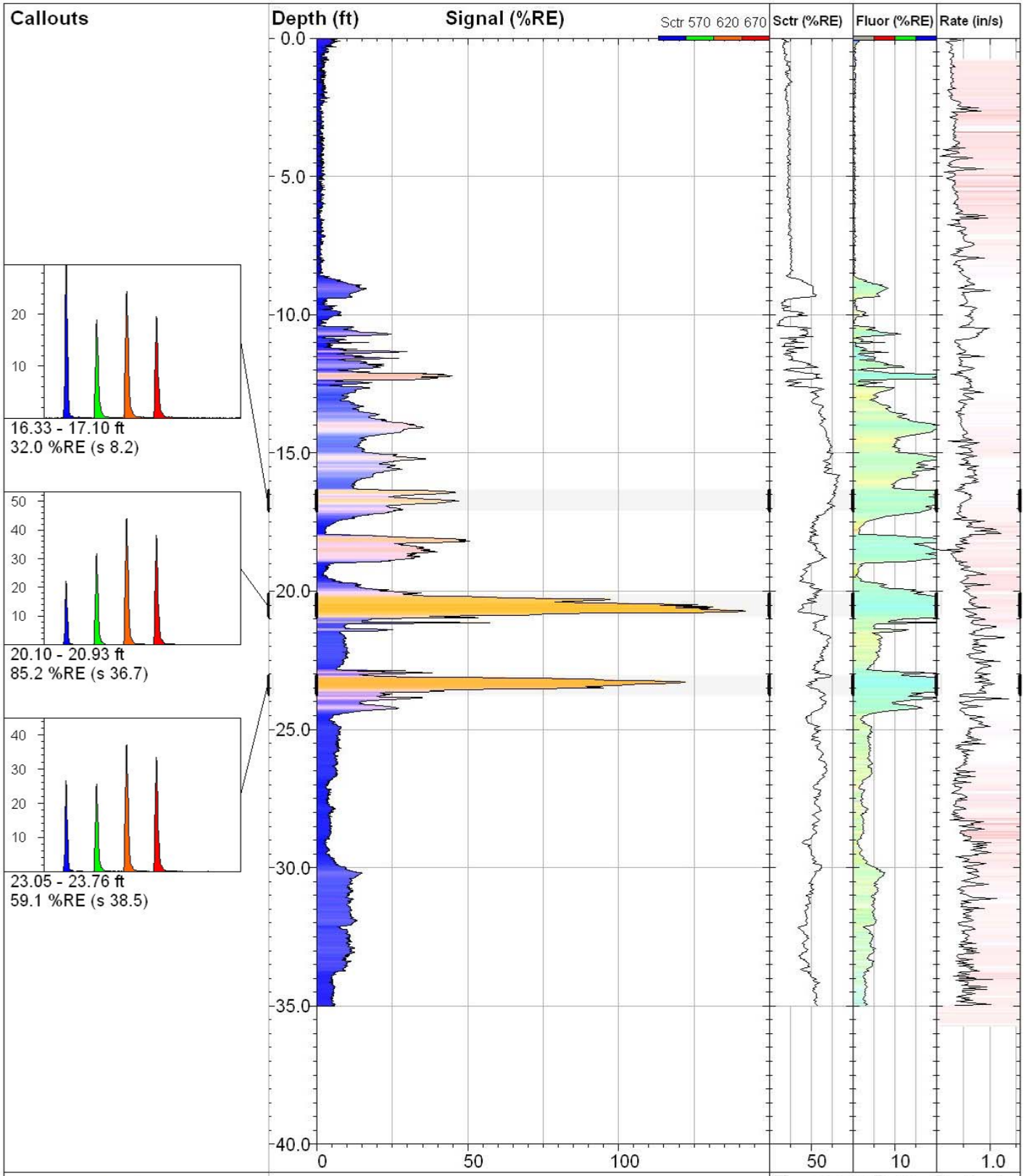
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473141.25 /**	*Final depth:* **35.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993330.03 /**	*Max signal:* **25.6 %RE @ 23.88 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 09:13 EST**



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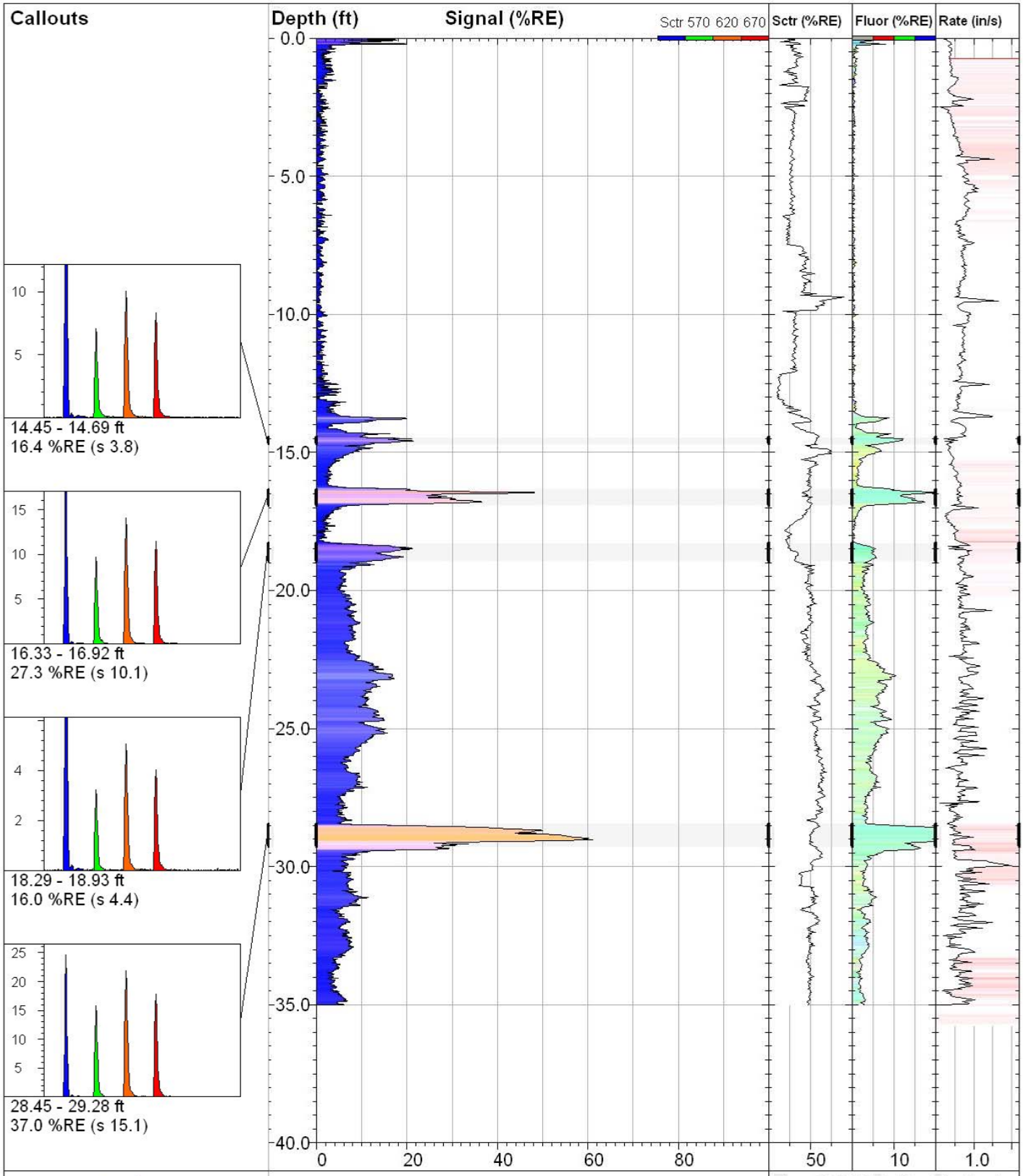
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473095.41 /**	*Final depth:* **35.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993420.14 /**	*Max signal:* **142.2 %RE @ 20.71 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 13:43 EST**



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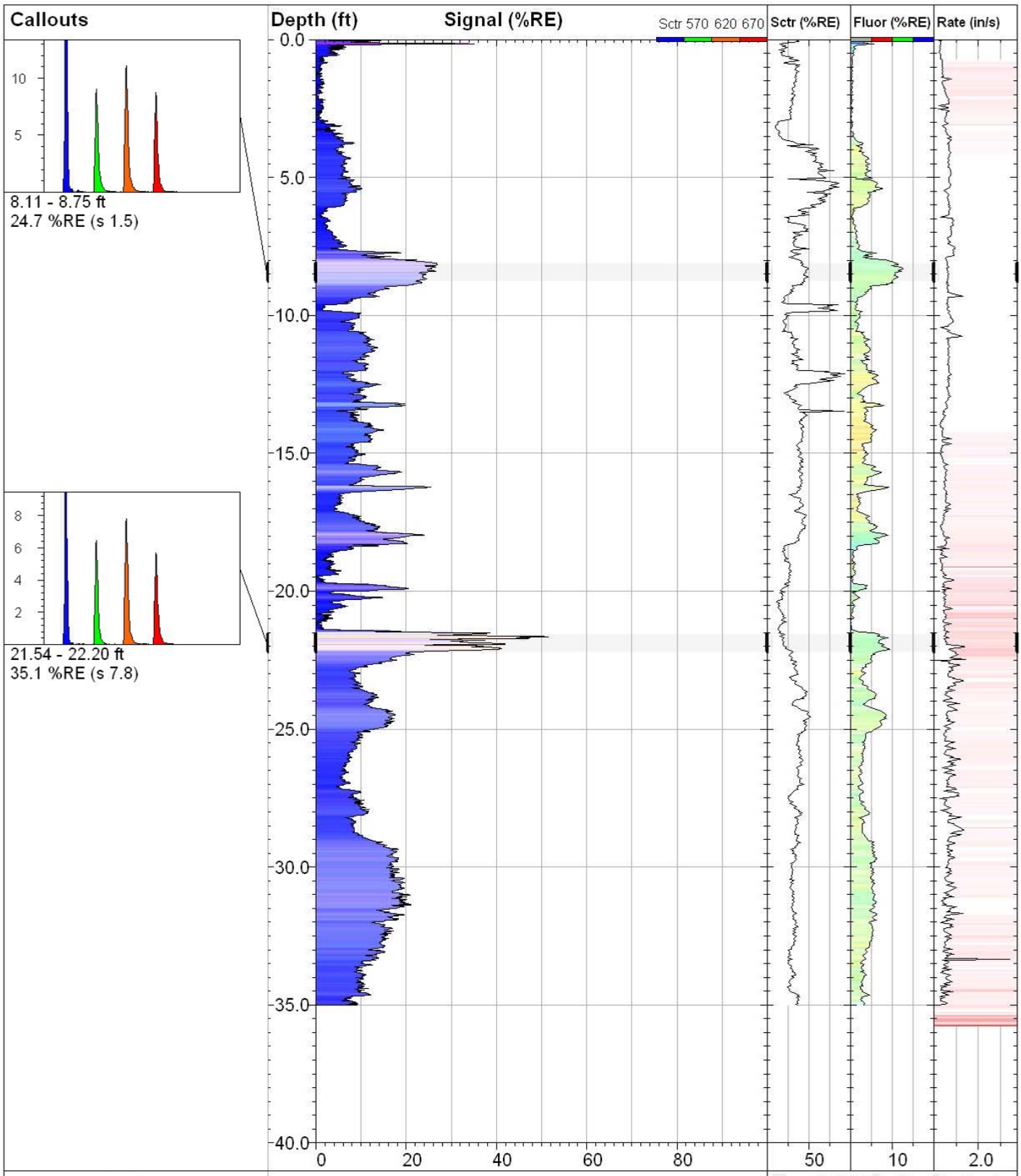
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473302.24 /**	*Final depth:* **35.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993477.12 /**	*Max signal:* **61.2 %RE @ 29.03 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 13:18 EST**



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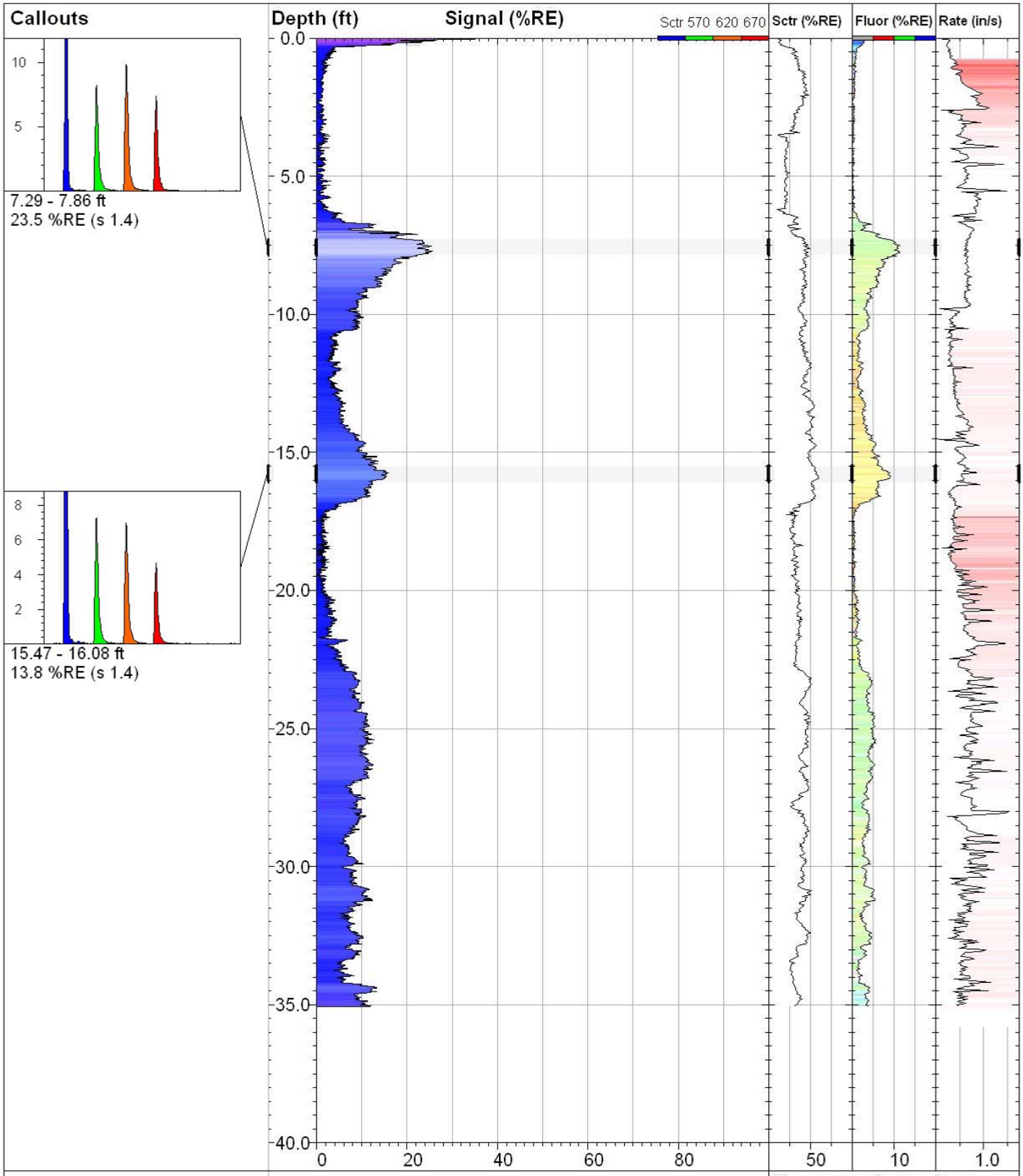
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473178.01 /**	*Final depth:* **35.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993474.23 /**	*Max signal:* **51.9 %RE @ 21.65 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 14:29 EST**



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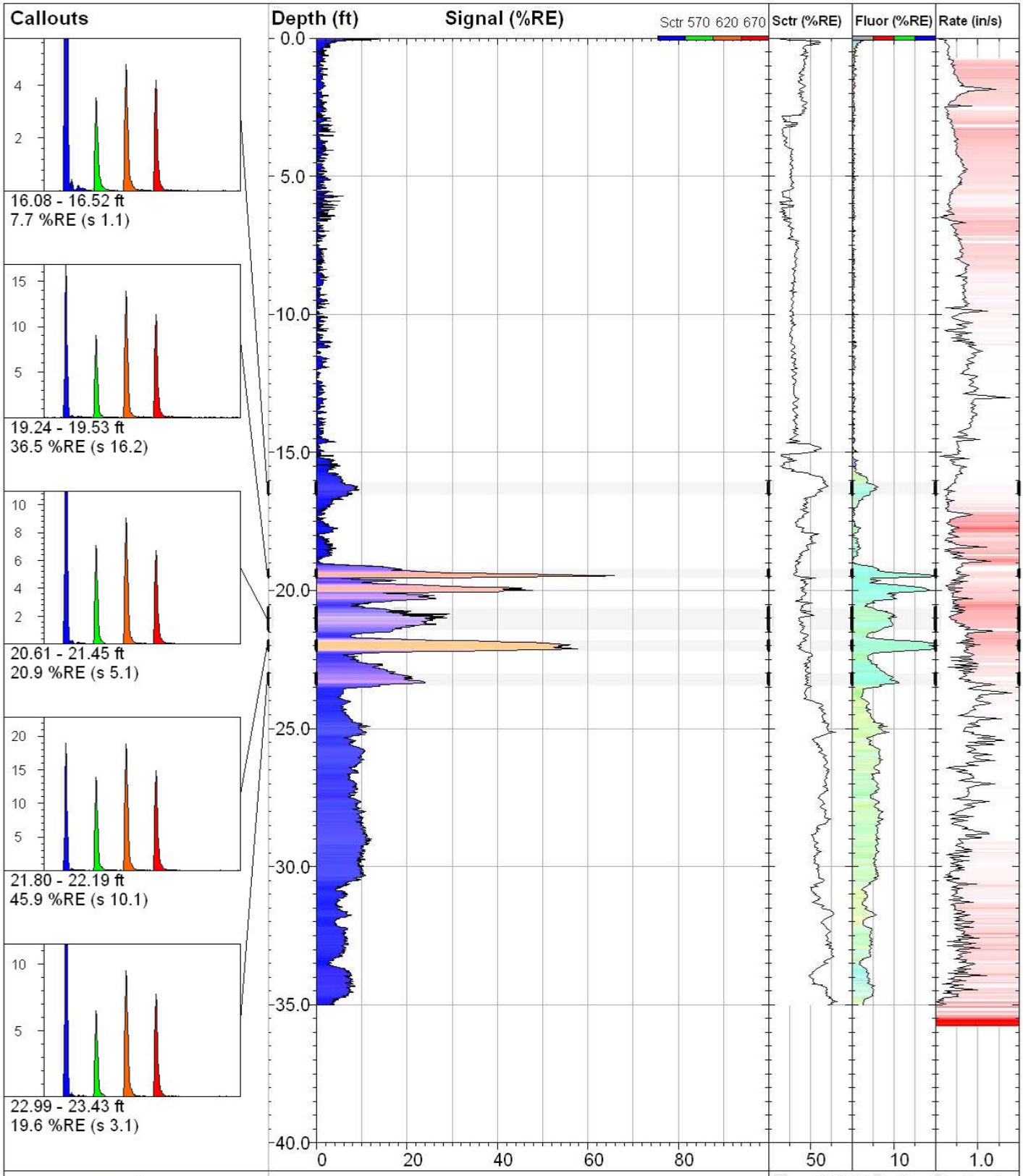
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473238.27 /**	*Final depth:* **35.06 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993478.94 /**	*Max signal:* **37.0 %RE @ 0.04 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 15:12 EST**



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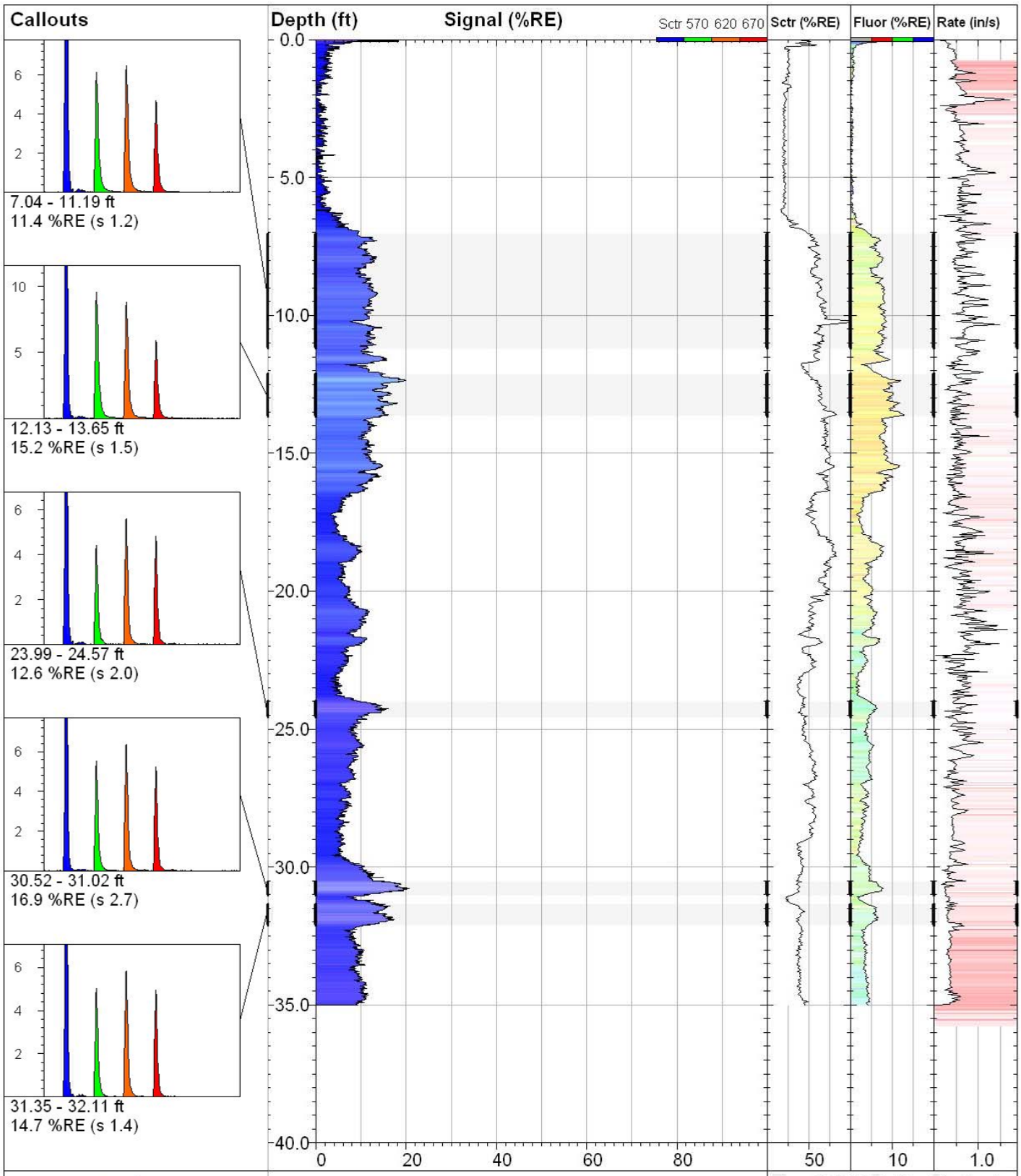
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473235.12 /**	*Final depth:* **35.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993429.56 /**	*Max signal:* **66.0 %RE @ 19.46 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 14:03 EST**



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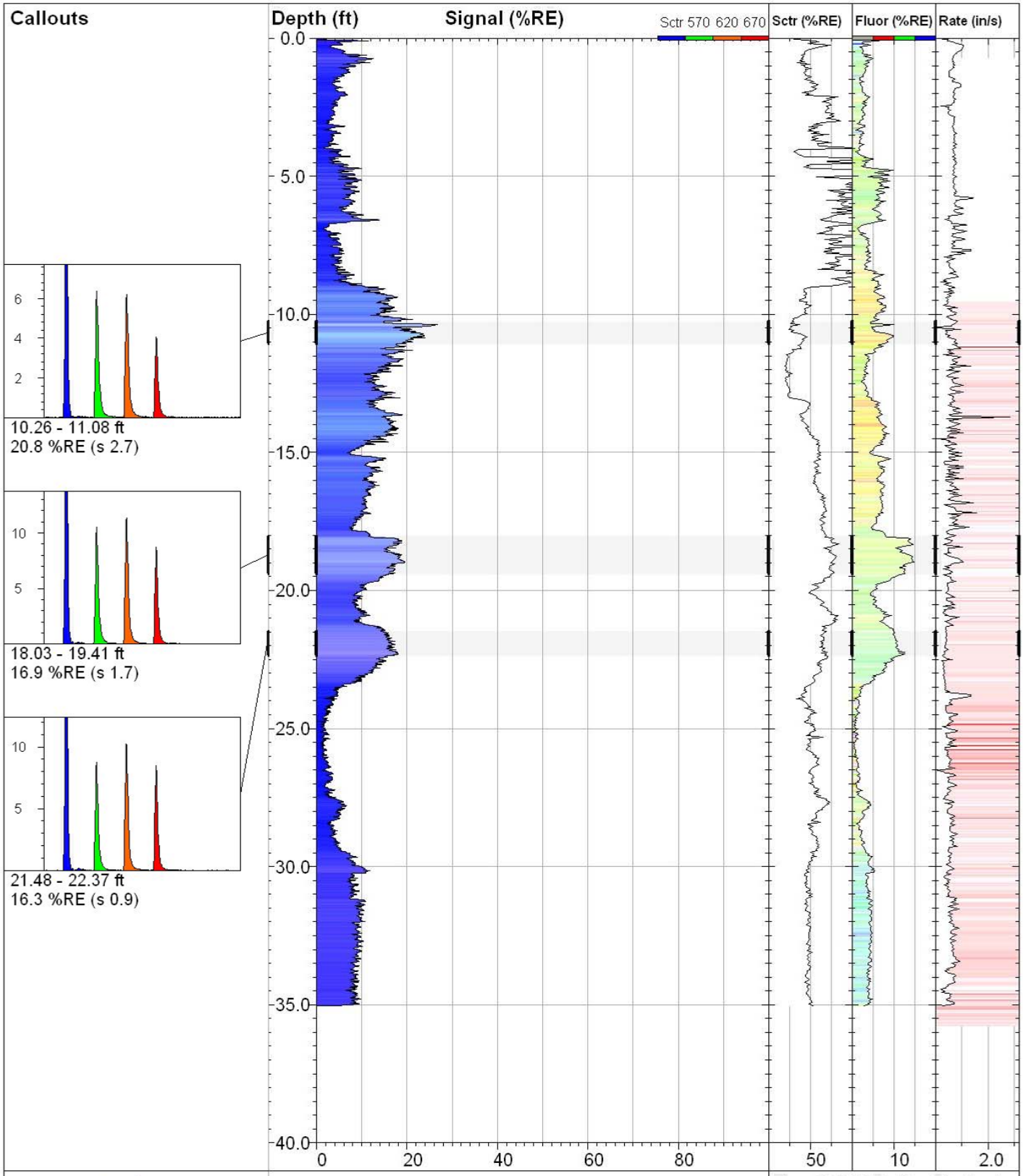
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473073.99 /**	*Final depth:* **35.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993352.85 /**	*Max signal:* **20.8 %RE @ 30.77 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 08:25 EST**



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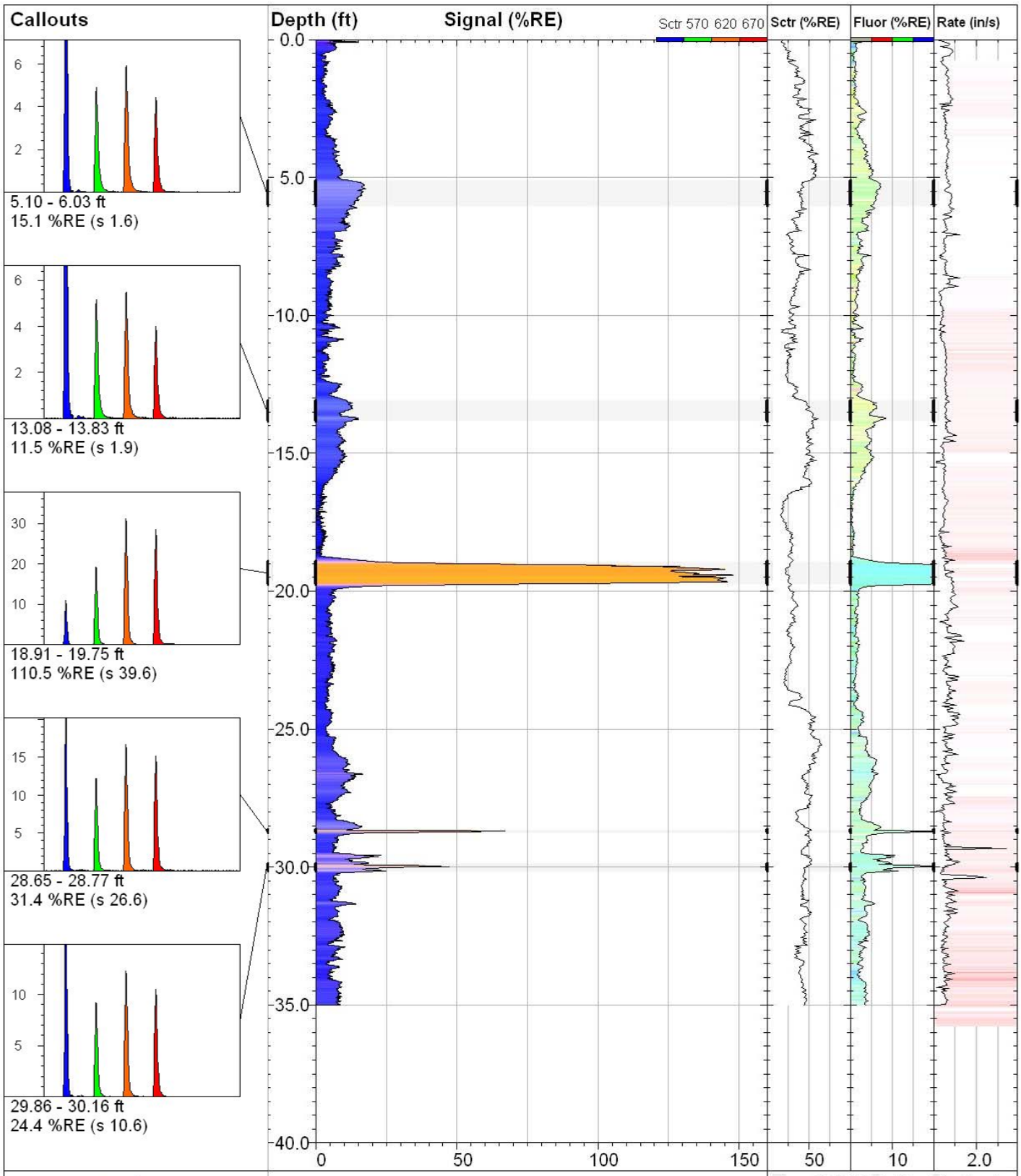
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473523.07 /**	*Final depth:* **35.02 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993371.21 /**	*Max signal:* **26.8 %RE @ 10.37 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-09 07:57 EST**



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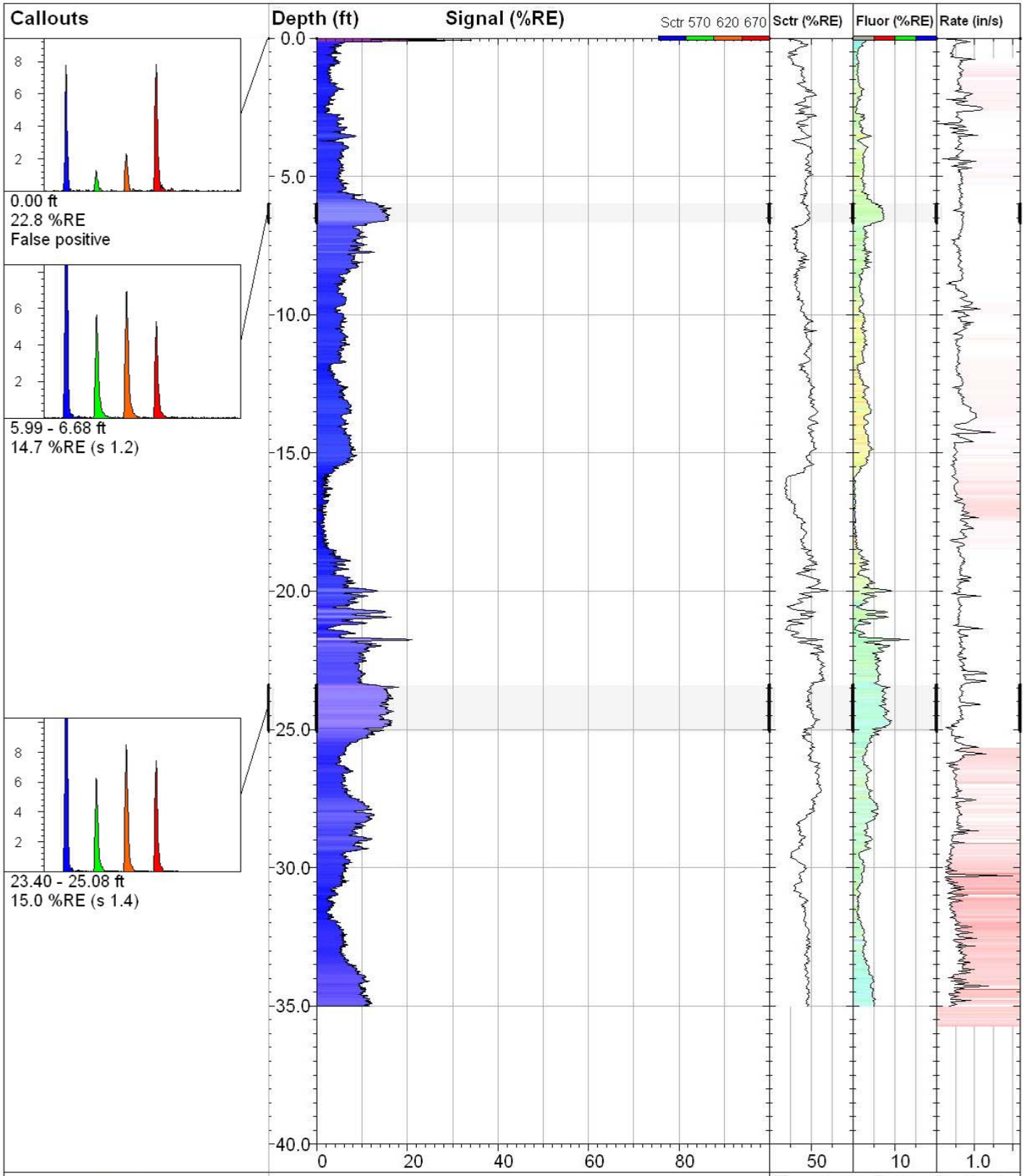
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473419.85 /**	*Final depth:* **35.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993309.58 /**	*Max signal:* **148.3 %RE @ 19.41 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-09 09:50 EST**



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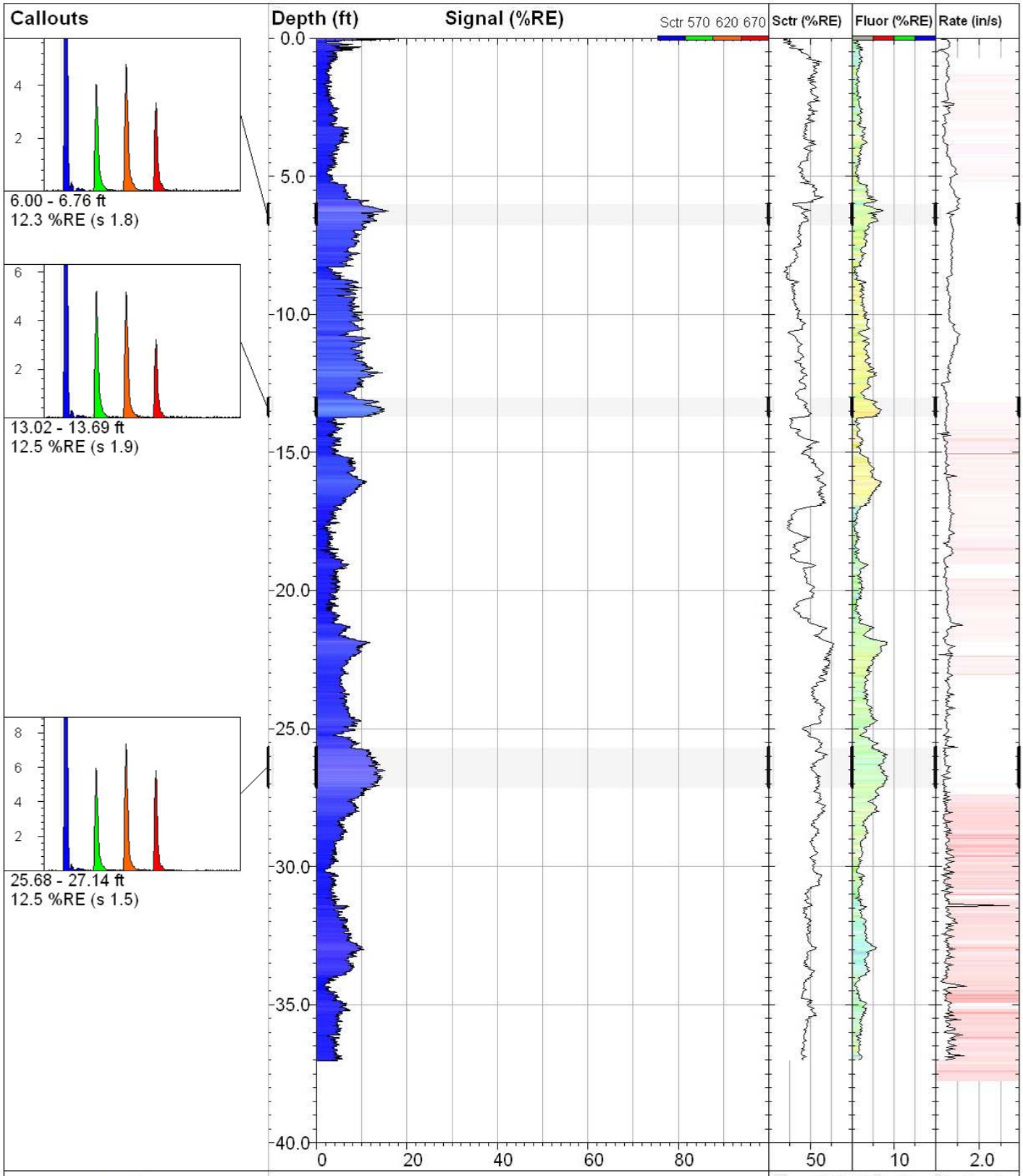
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473344.10 /**	*Final depth:* **35.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993267.99 /**	*Max signal:* **34.8 %RE @ 0.07 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-09 11:25 EST**



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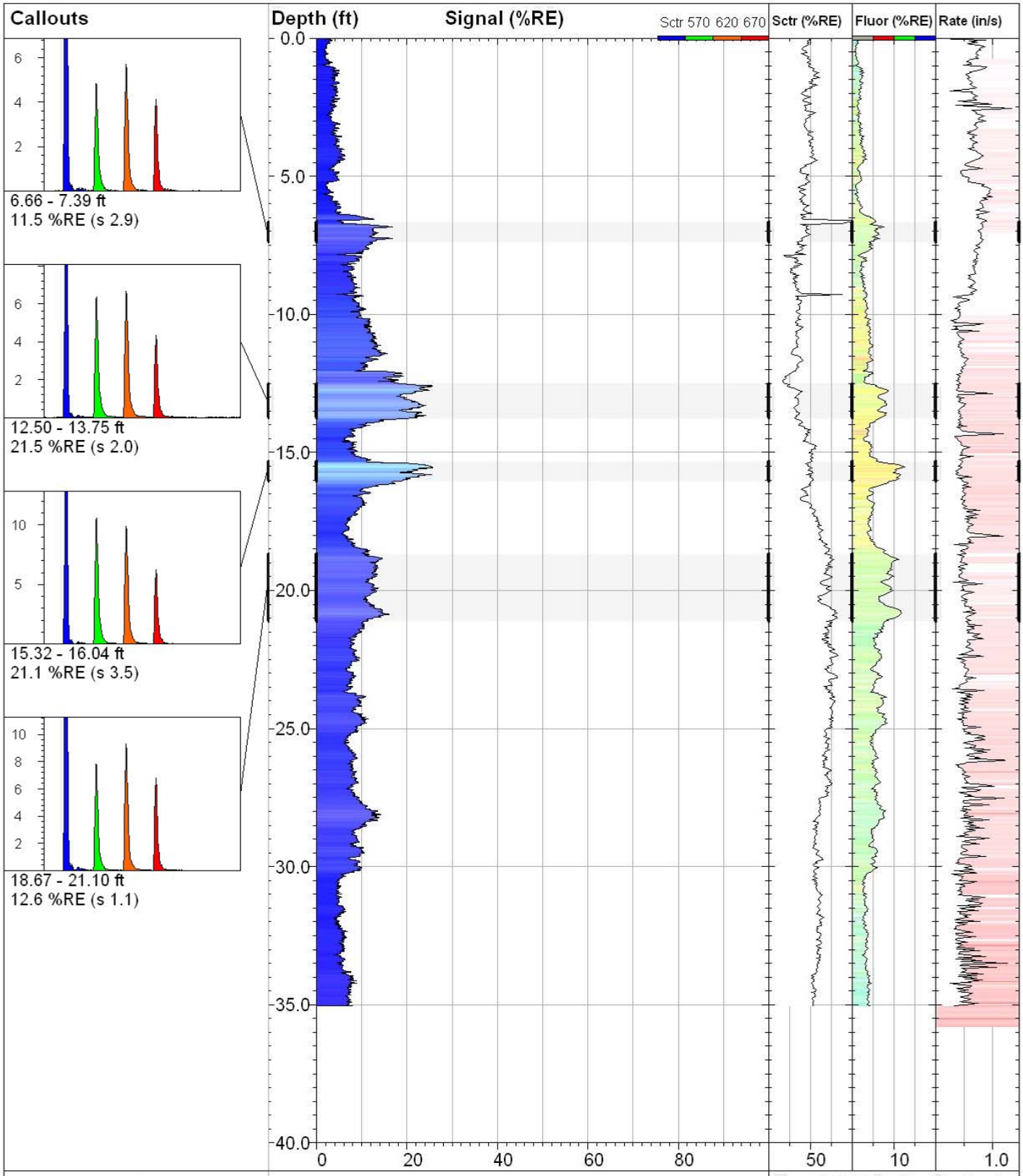
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473462.59 /**	*Final depth:* **37.02 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993381.94 /**	*Max signal:* **17.5 %RE @ 0.05 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 13:26 EST**



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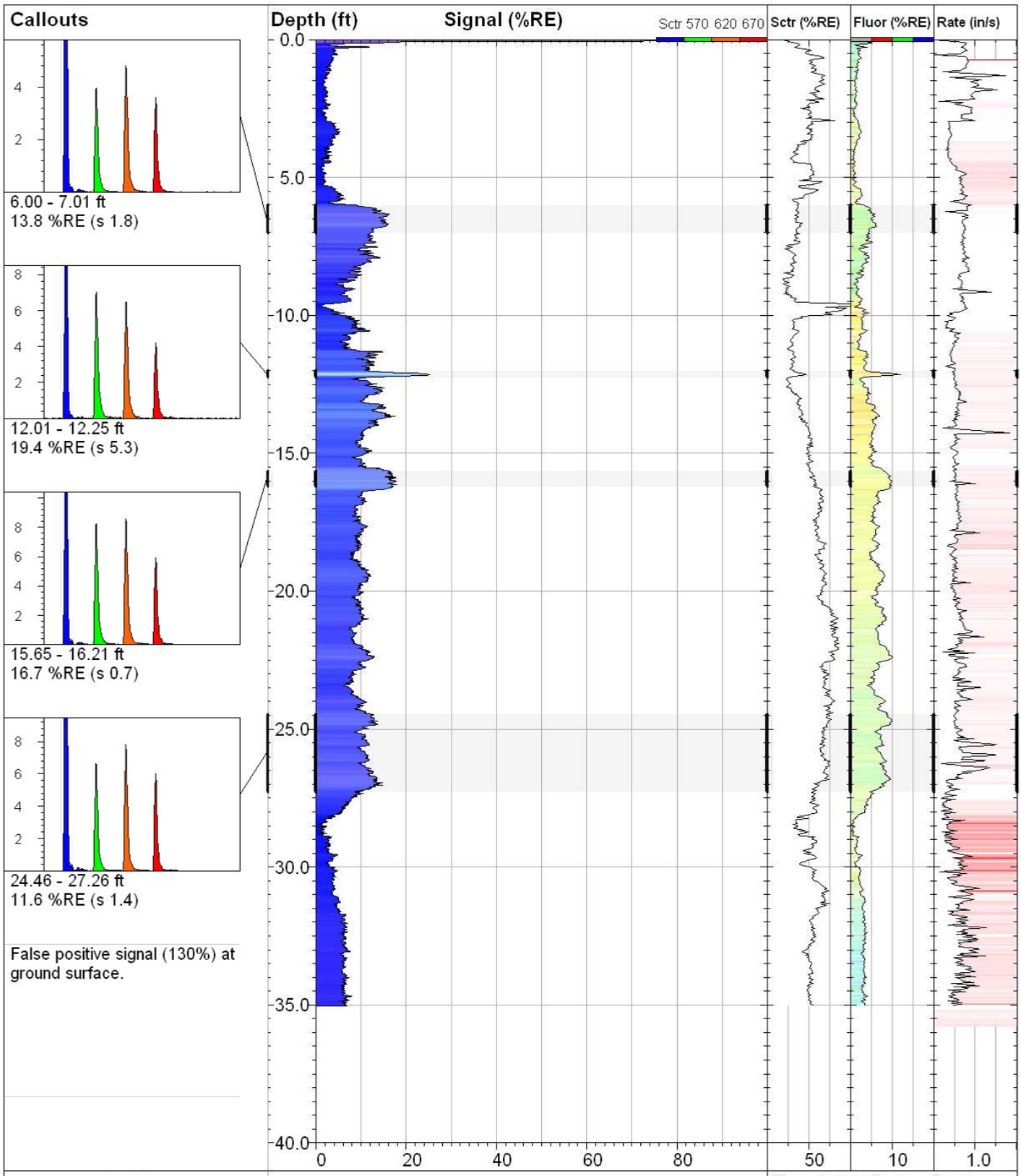
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473502.28 /**	*Final depth:* **35.04 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993440.28 /**	*Max signal:* **25.8 %RE @ 12.62 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 14:57 EST**



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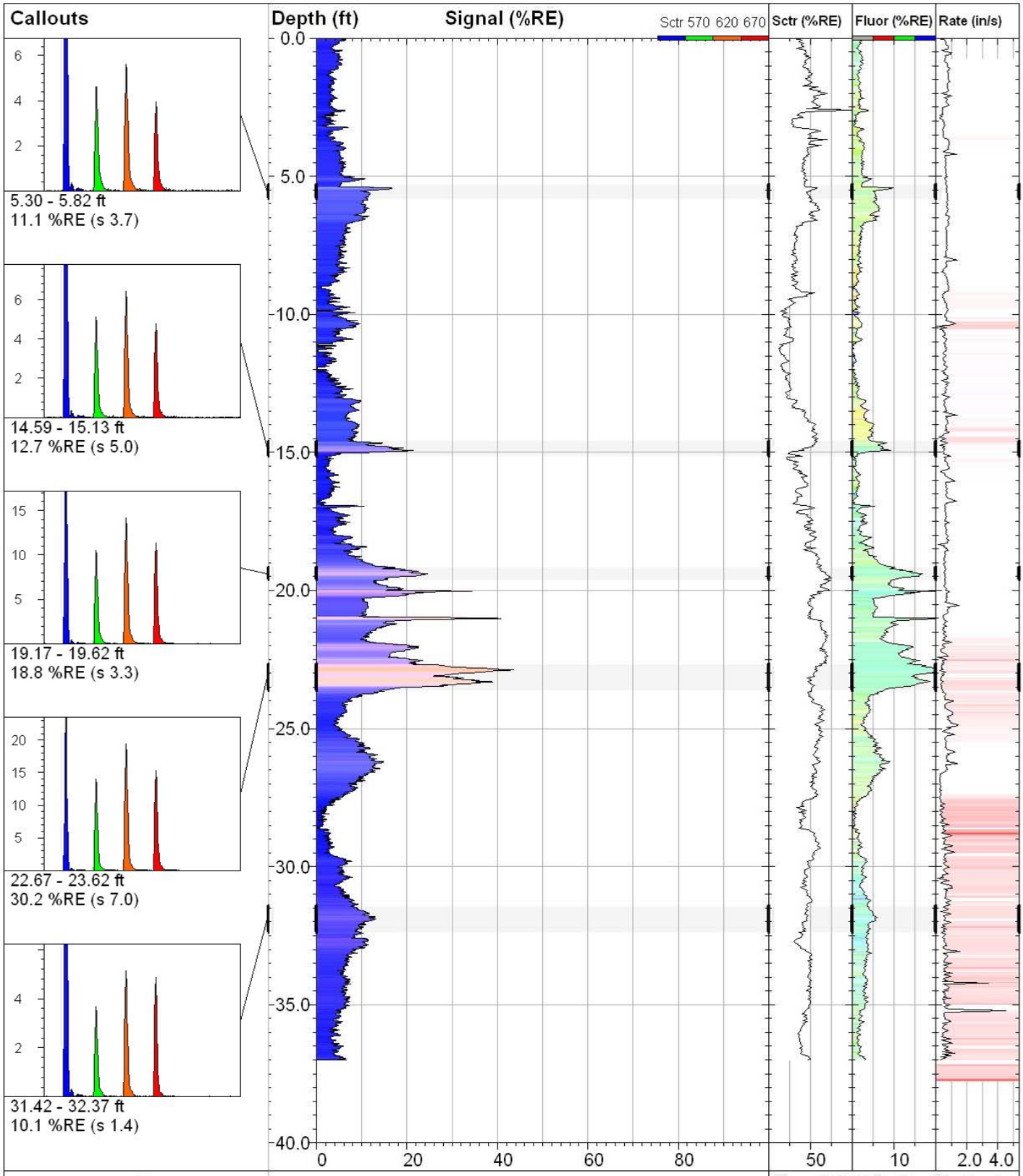
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473463.14 /**	*Final depth:* **35.05 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993422.76 /**	*Max signal:* **130.5 %RE @ 0.03 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-08 15:41 EST**



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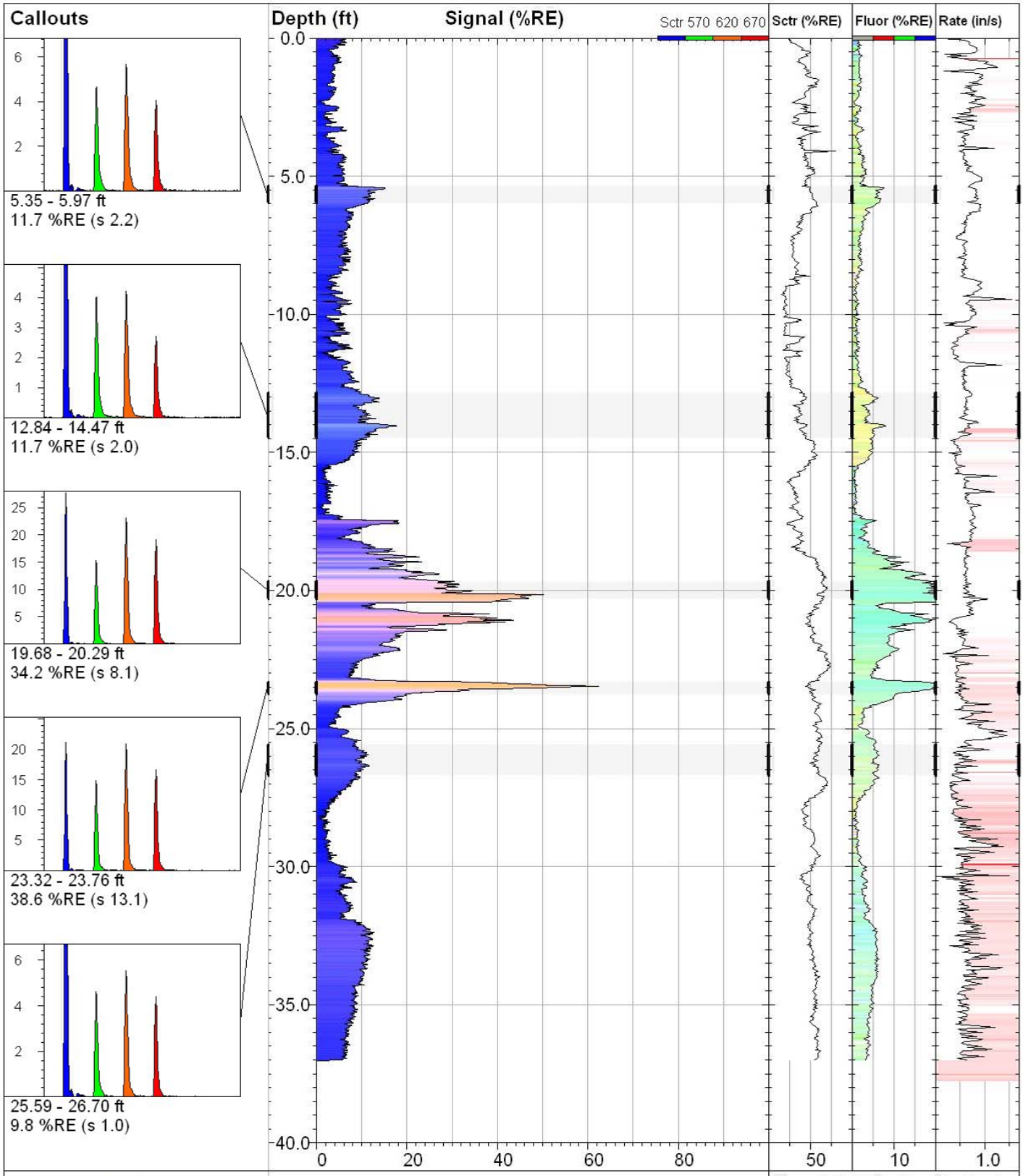
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473432.18 /**	*Final depth:* **37.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993405.13 /**	*Max signal:* **43.8 %RE @ 22.88 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 14:20 EST**



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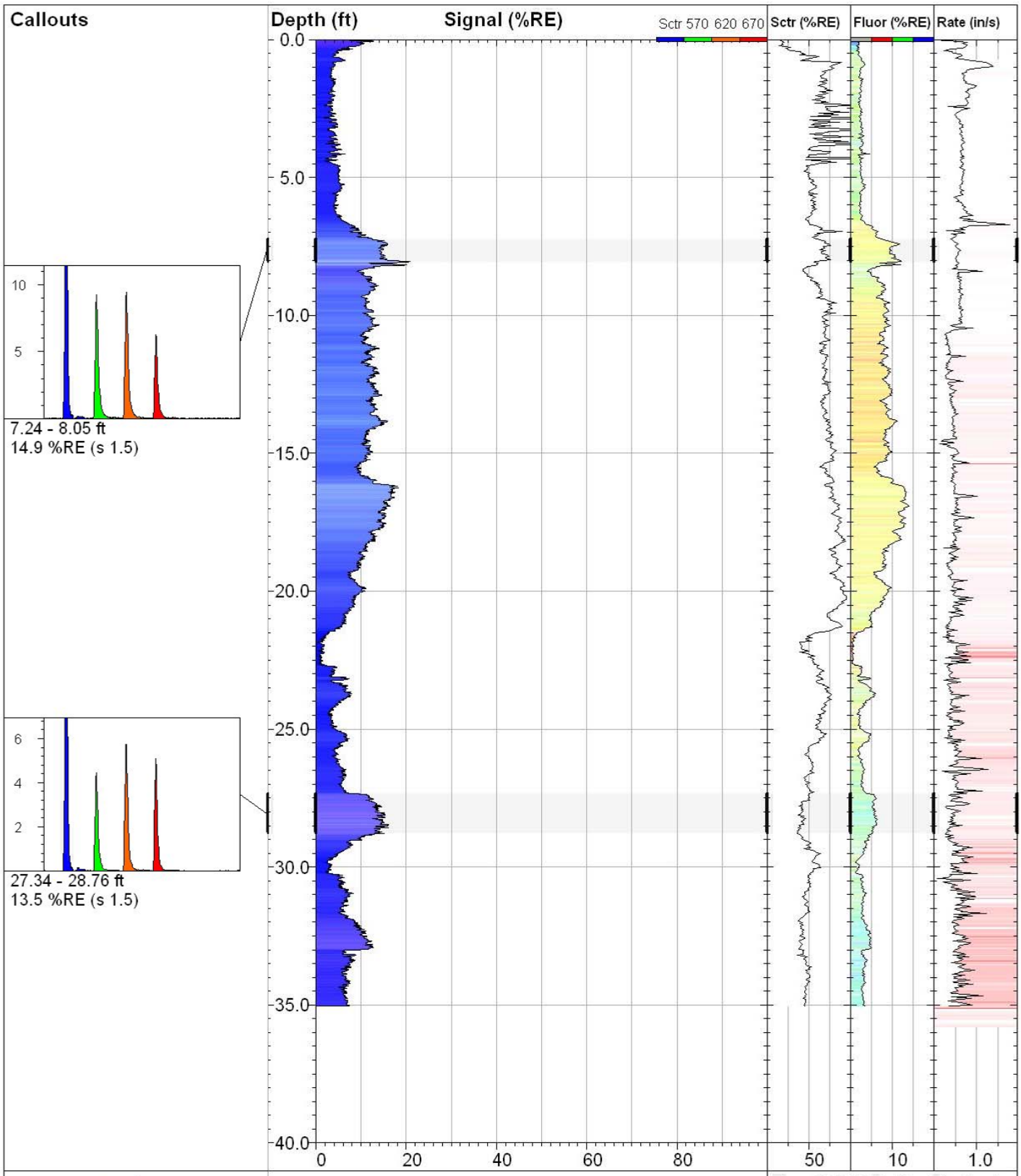
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473432.18 /**	*Final depth:* **37.02 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993405.13 /**	*Max signal:* **62.9 %RE @ 23.47 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 15:12 EST**



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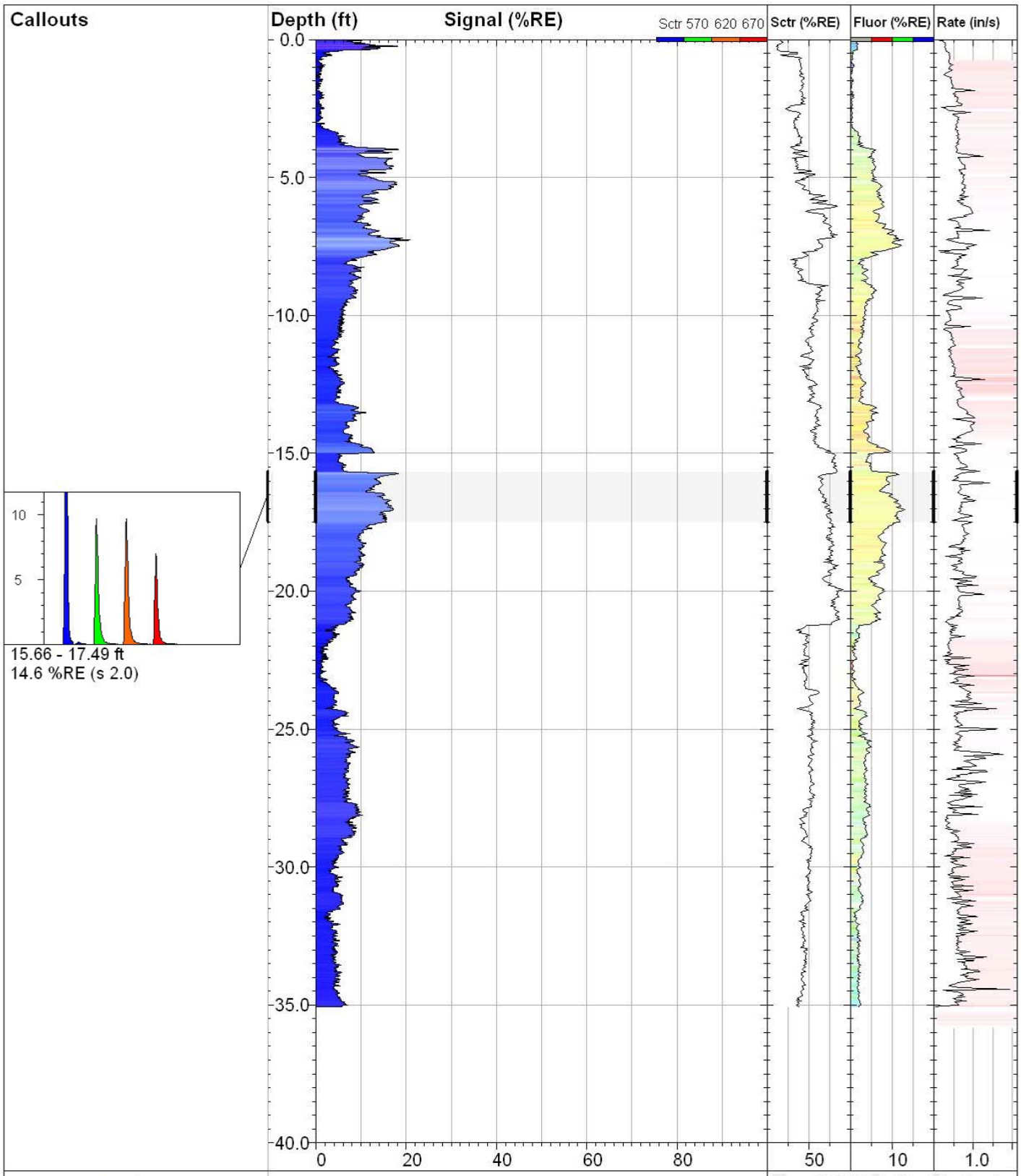
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **472968.20 /**	*Final depth:* **35.04 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993225.42 /**	*Max signal:* **21.0 %RE @ 8.05 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 11:35 EST**



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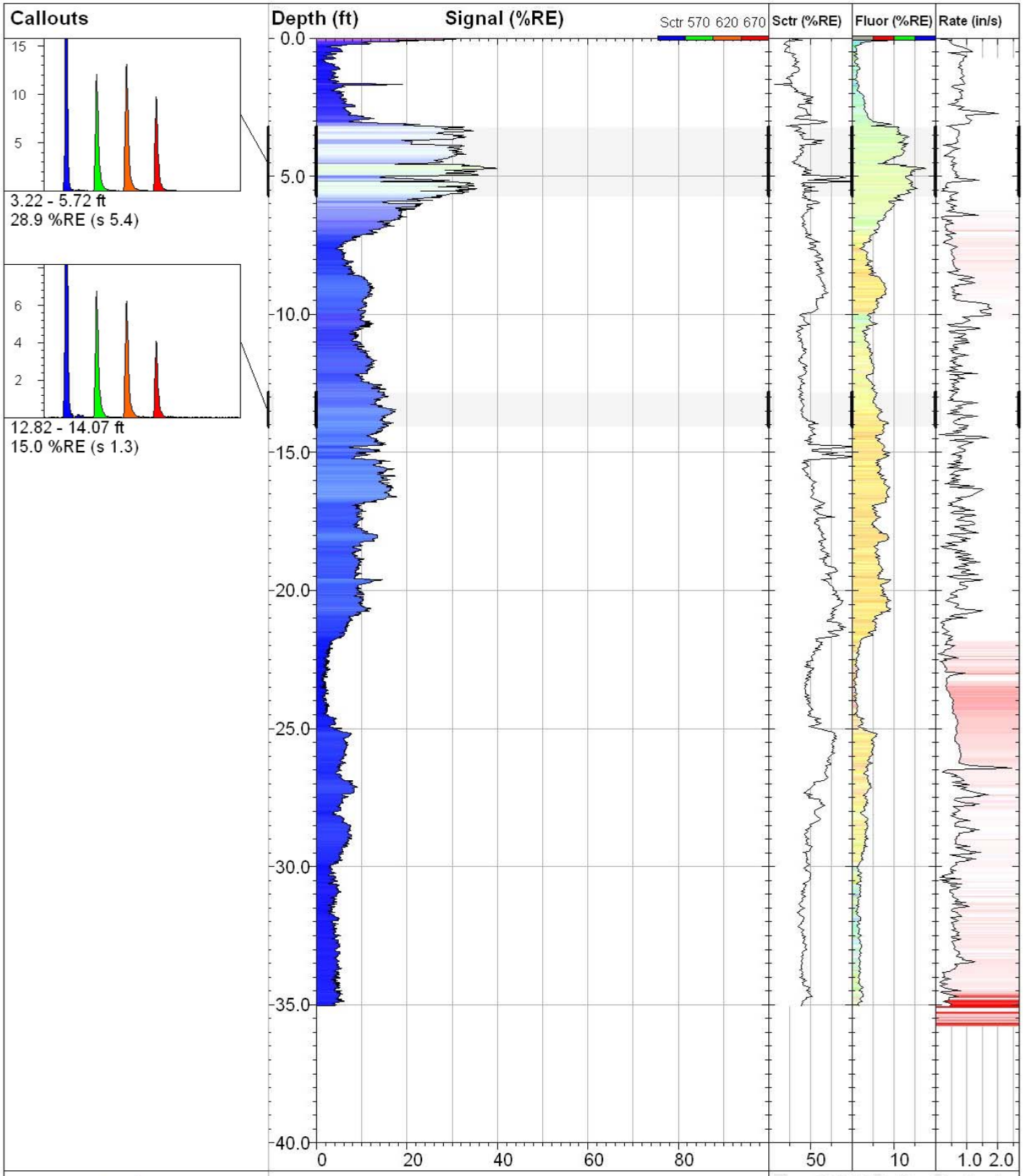
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **472953.54 /**	*Final depth:* **35.08 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993271.78 /**	*Max signal:* **21.2 %RE @ 7.27 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 10:50 EST**



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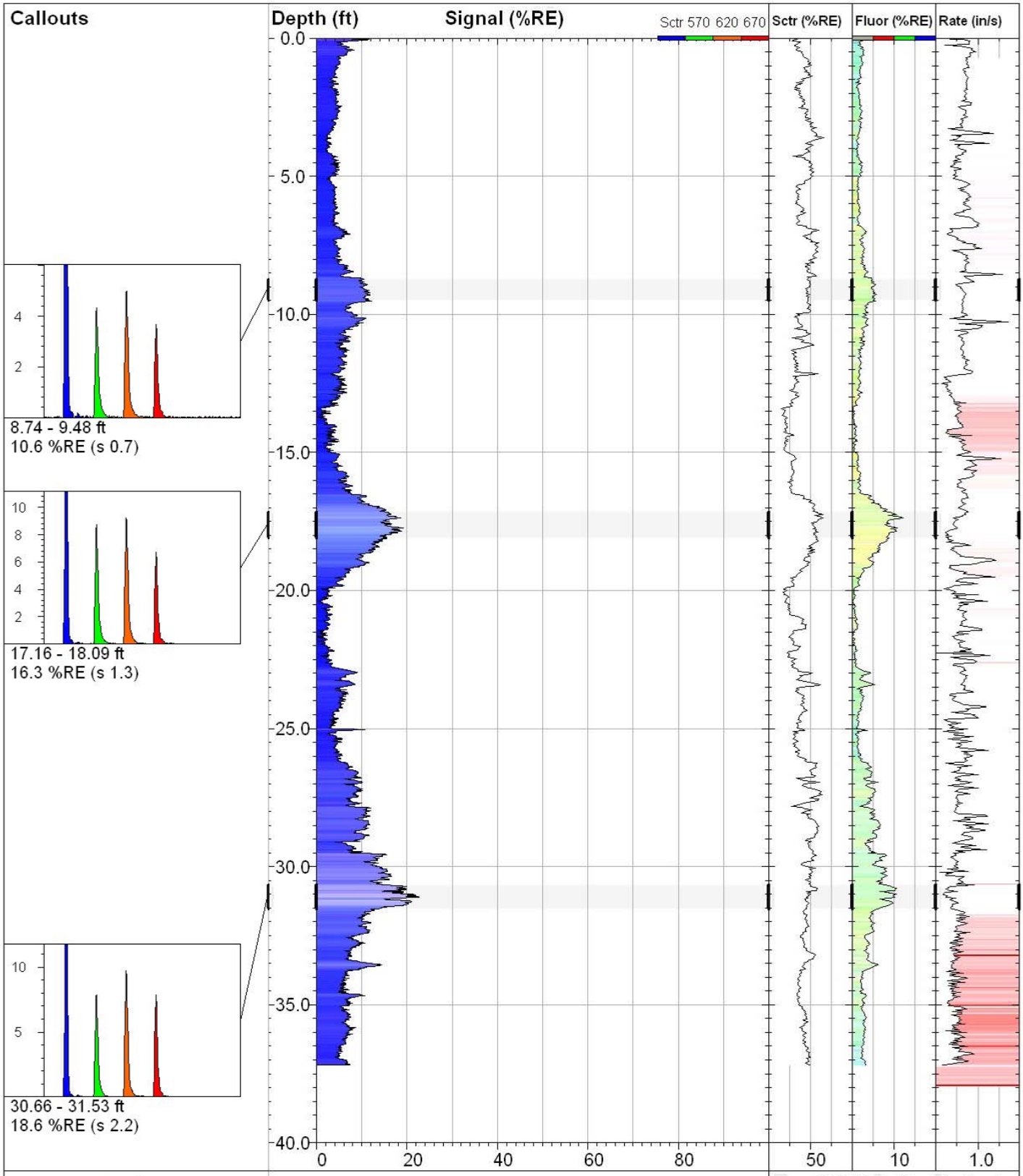
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **472776.27 /**	*Final depth:* **35.04 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **199350.09 /**	*Max signal:* **39.9 %RE @ 4.71 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-07 09:49 EST**



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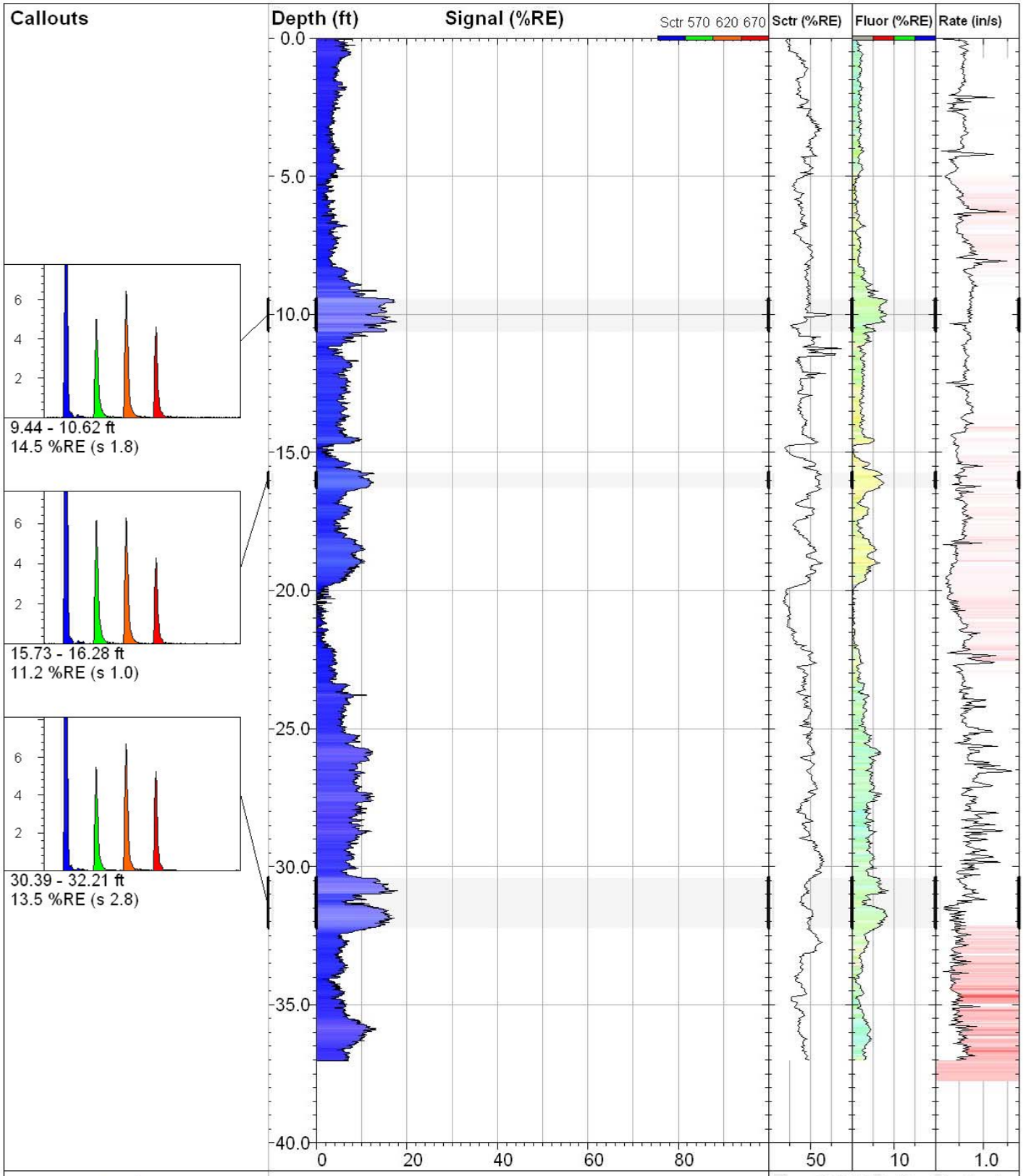
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473440.53 /**	*Final depth:* **37.18 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993290.59 /**	*Max signal:* **22.7 %RE @ 31.10 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 09:25 EST**



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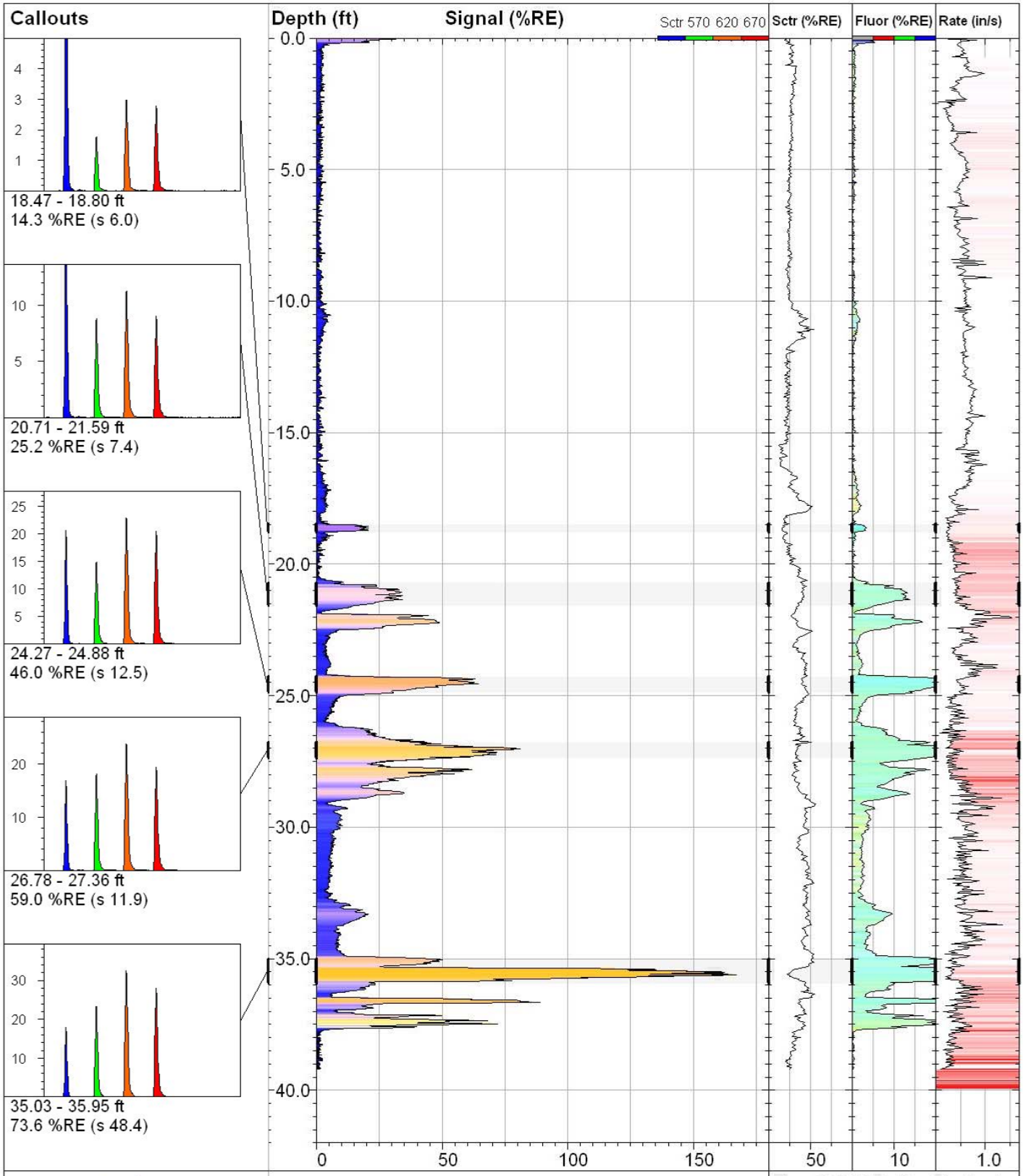
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473378.52 /**	*Final depth:* **37.03 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993293.38 /**	*Max signal:* **17.8 %RE @ 30.88 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-10 10:49 EST**



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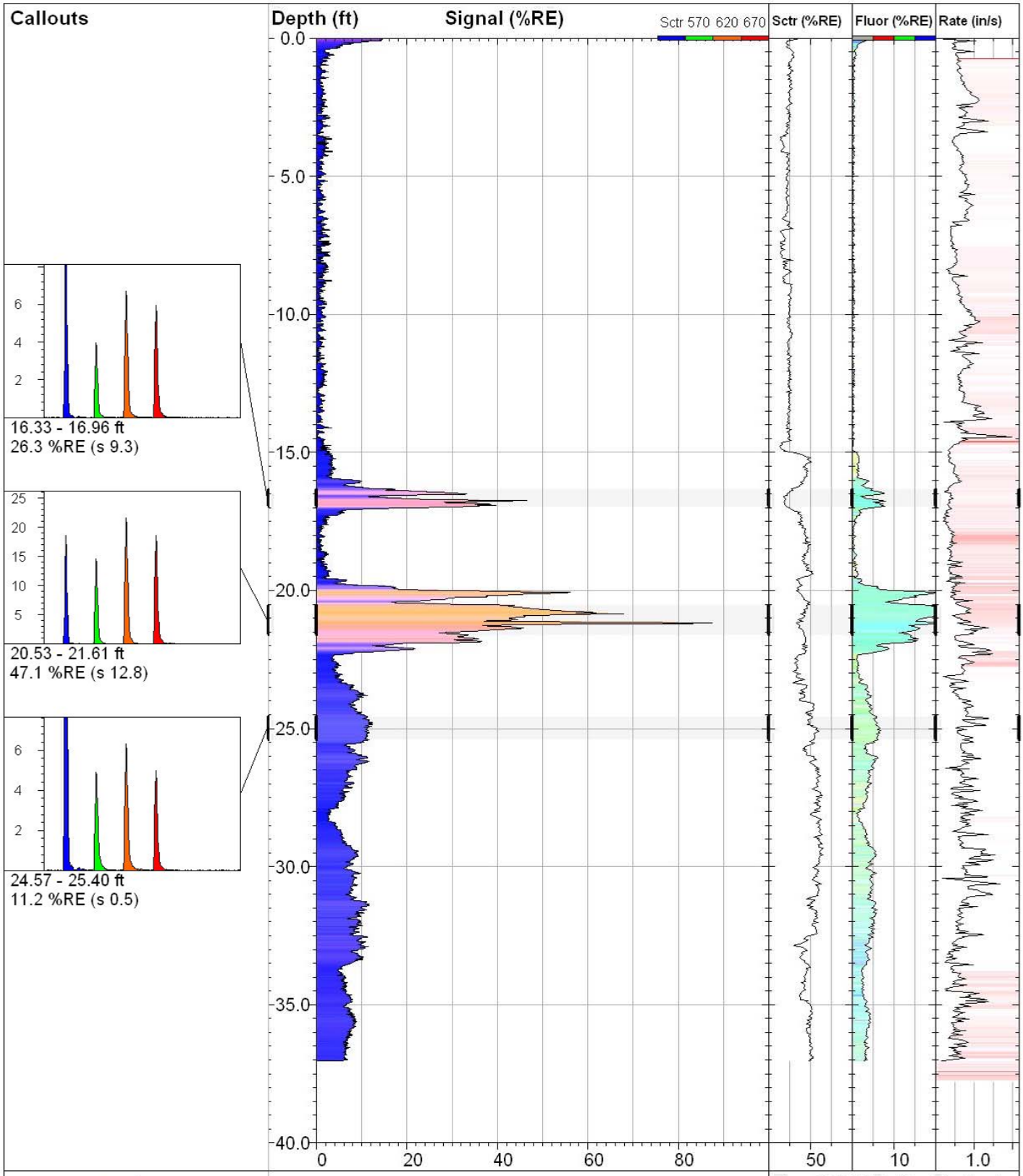
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473256.59 /**	*Final depth:* **39.20 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993399.53 /**	*Max signal:* **167.6 %RE @ 35.63 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 08:39 EST**



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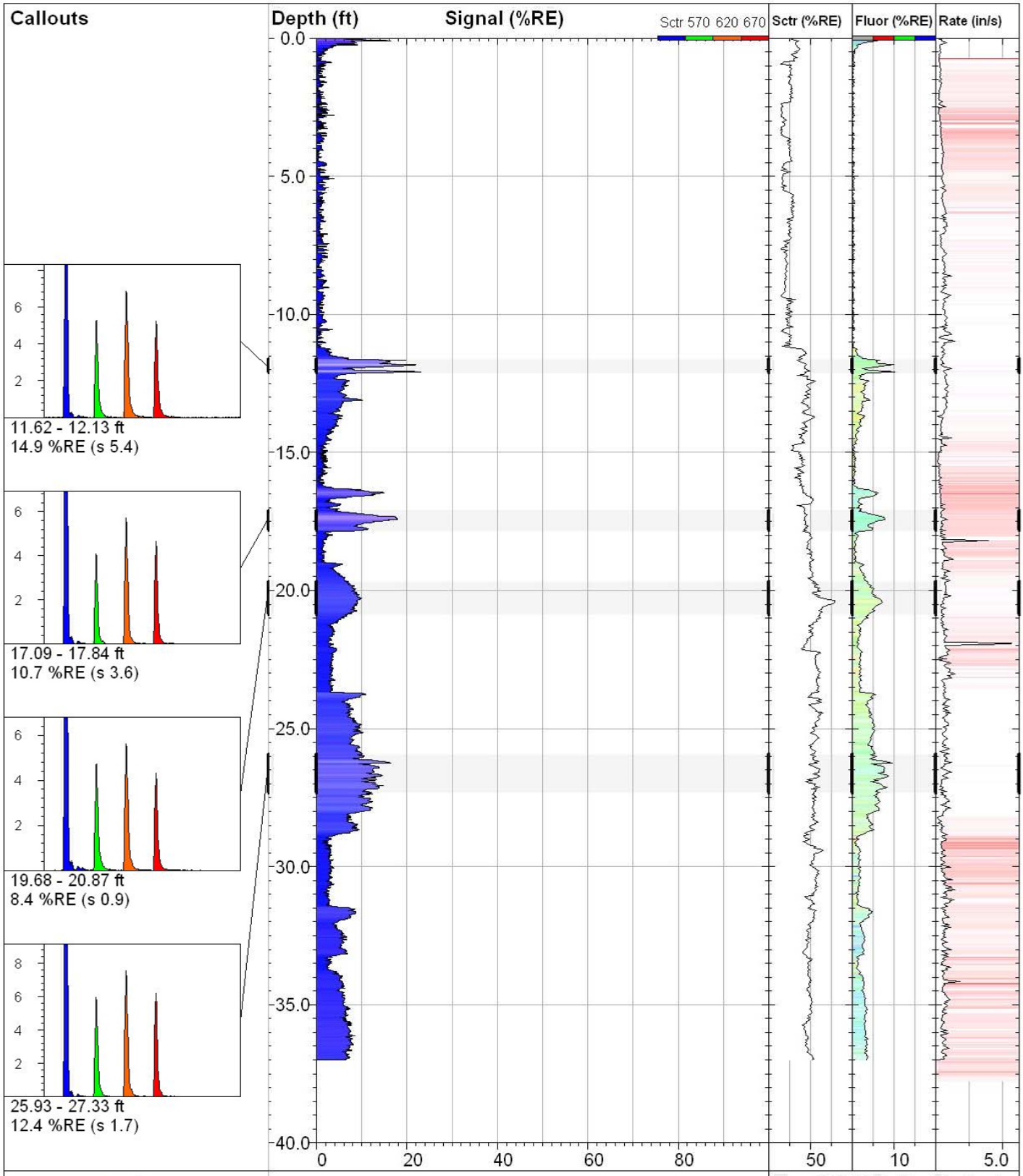
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473302.88 /**	*Final depth:* **37.04 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993426.59 /**	*Max signal:* **88.5 %RE @ 21.18 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 10:54 EST**



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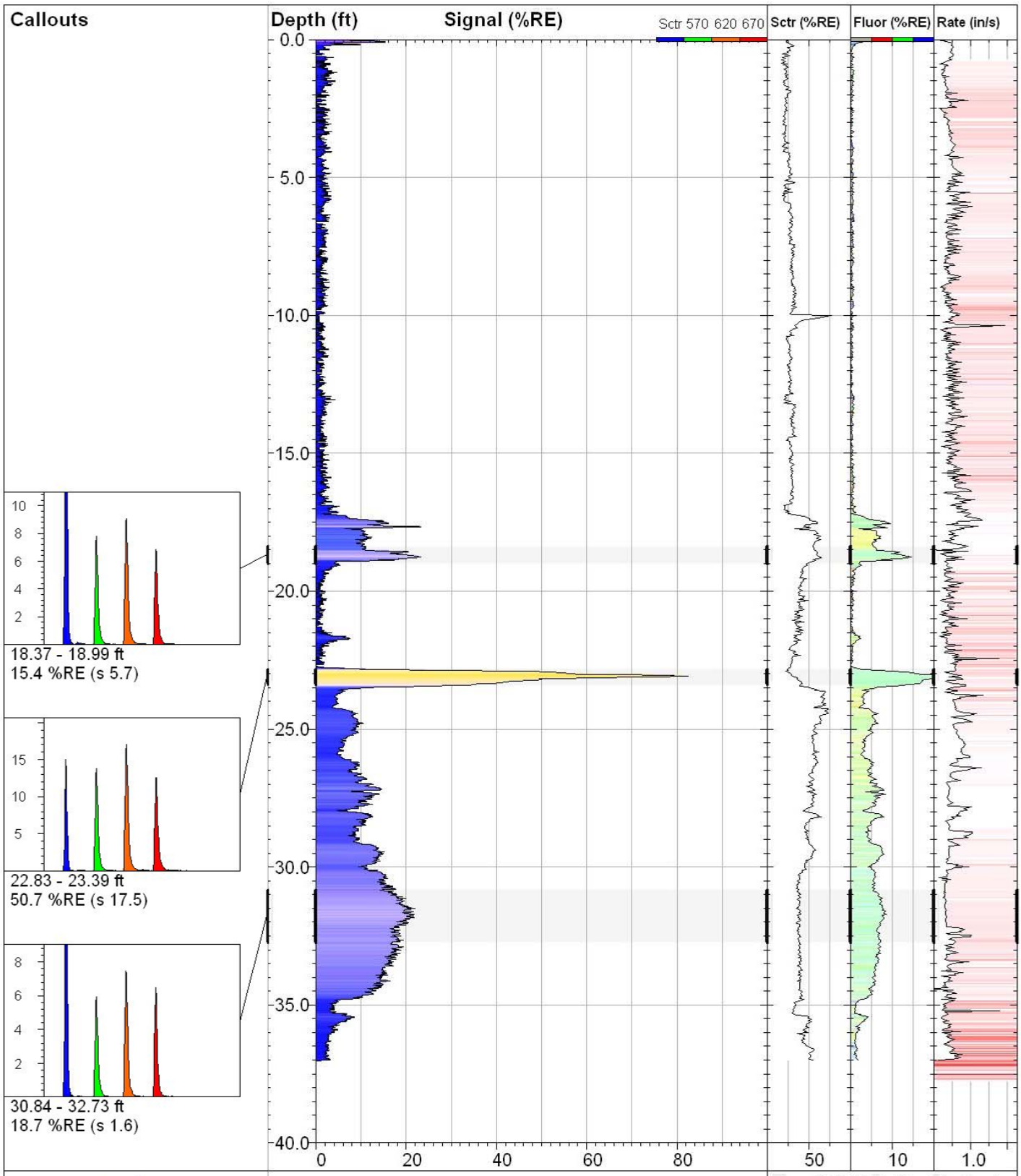
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473347.05 /**	*Final depth:* **37.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993449.35 /**	*Max signal:* **23.4 %RE @ 12.08 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 11:40 EST**



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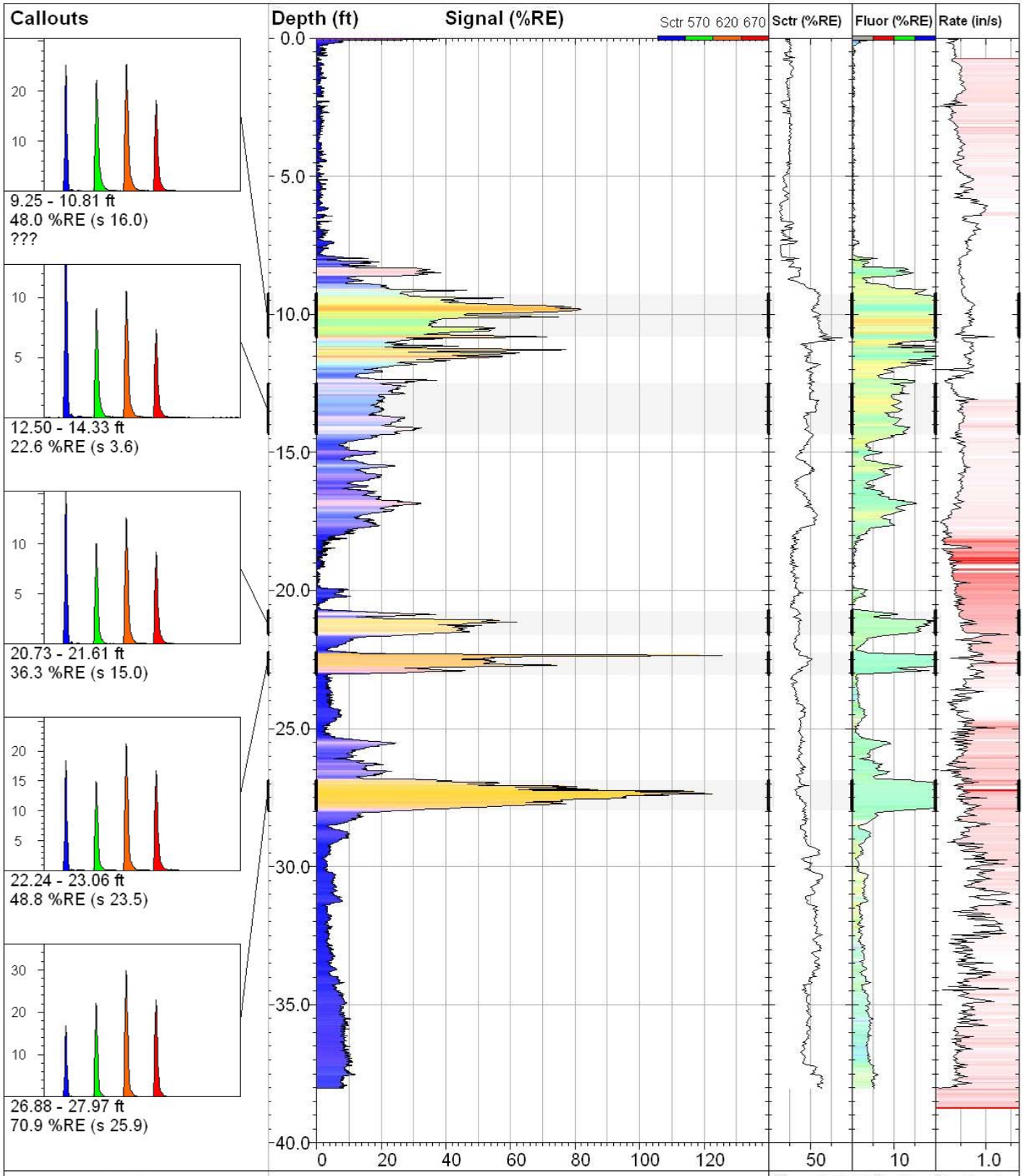
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473116.47 /**	*Final depth:* **37.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993487.43 /**	*Max signal:* **82.9 %RE @ 23.08 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 07:42 EST**



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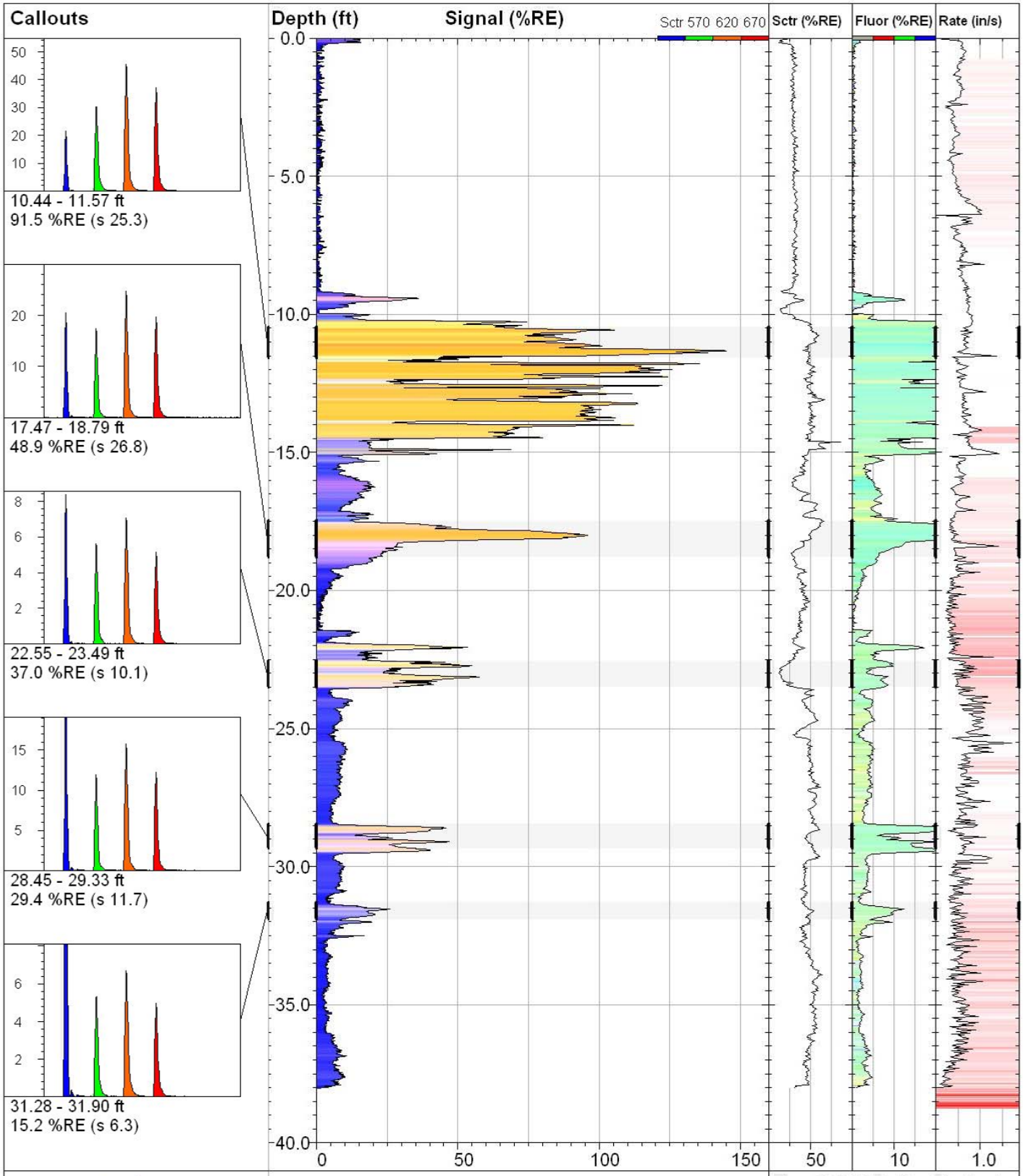
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473170.28 /**	*Final depth:* **38.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993429.60 /**	*Max signal:* **127.0 %RE @ 22.35 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 12:49 EST**



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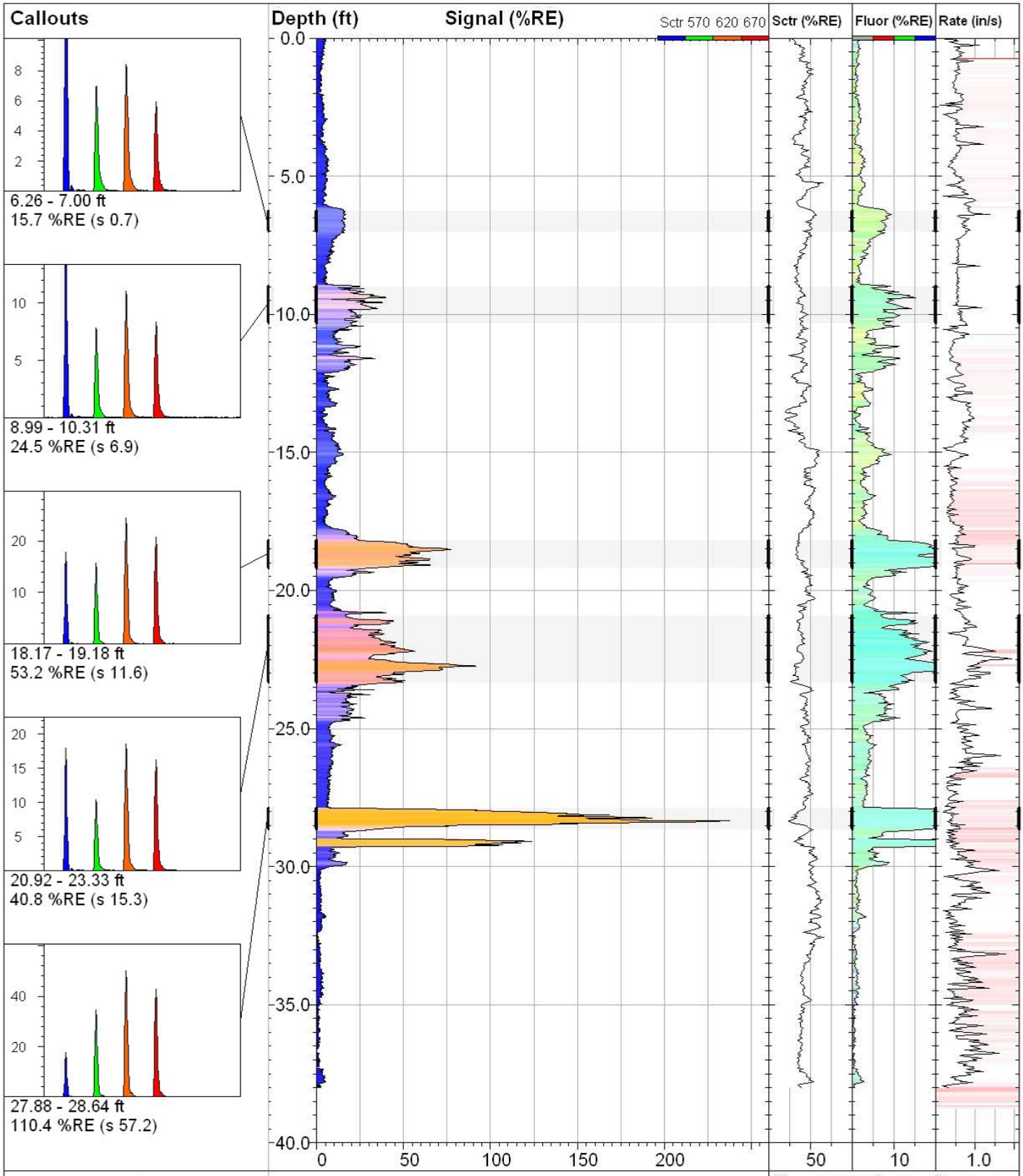
Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473200.73 /**	*Final depth:* **38.01 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993433.01 /**	*Max signal:* **145.0 %RE @ 11.33 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 13:57 EST**



DAKOTA TECHNOLOGIES
FARGO, ND 701.237.4908
WWW.DAKOTATECHNOLOGIES.COM

L103

TarGOST By Dakota
www.DakotaTechnologies.com

Site: **Cape Fear Wood Treating**	*Y Coord.(Lat-N) / System:* **473335.18 /**	*Final depth:* **38.00 ft**
Client / Job: **Black & Veatch /**	*X Coord.(Lng-E) / Fix:* **1993341.29 /**	*Max signal:* **239.2 %RE @ 28.34 ft**
Operator / Unit: **JTCL / TG1003**	*Elevation:* **Unavailable**	*Date & Time:* **2015-12-11 14:56 EST**

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Attachment B. TarGOST® Guide

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TarGOST® Technical Process and Interpretation of Results

TarGOST® is a potent high resolution tool for the identification of DNAPL, as documented through the two field events in 2009 and 2015 at Cape Fear. Where the TarGOST® response is high, there is no doubt on the occurrence of creosote DNAPL, as confirmed through visual observation and soil analyses. Through examination of the 103 TarGOST® plots generated at Cape Fear, aside from occasional thick pools underlying source regions, lateral stringers generally less than 0.5-foot thick dominate the subsurface. Many times, a number of stringers at variable depths occupy a single boring. On the other hand, where TarGOST® yield a low response, the presence of DNAPL is debatable. Interpretative aspects of TarGOST® are explained below, followed by a detailed discussion on high and low responses.

General Attributes of TarGOST® / Laser-Induced Fluorescence

TarGOST® includes the following components and abilities.

- A direct push probe that responds to creosote DNAPLs in real time.
- Pulses of laser light laterally exit a sapphire window near the base of the probe.
- Polycyclic aromatic hydrocarbons (PAHs) in creosote absorb the laser light.
- A few nanoseconds later, the PAHs emit energy in the form of light.
- Three laser-induced fluorescence pulses are emitted and recorded for every inch of the soil column.
- Highly detailed logs of creosote DNAPL versus depth are created in real-time at the surface.
- TarGOST® does NOT respond to dissolved-phase PAHs.

According to Wikipedia, laser-induced fluorescence (LIF) is a spectroscopic method used for studying structure of molecules and detection of selective species. The species to be examined is excited with a laser. The excited species will after some time, usually in the order of few nanoseconds to microseconds, de-excite and emit light at a (characteristic) wavelength longer than the excitation wavelength. This fluorescent light is typically recorded with a photomultiplier tube.

When interpreting the TarGOST® plots, an understanding of the two components of 'time-resolved fluorescence' is important. In other words, fluorescence results in different wavelengths/colors arriving over time. Specifically, the first component is spectral in nature (the resulting colors on the plot). Initially, when the laser first 'excites' the creosote, the resulting light creates the scattered/excitation signature (for example, green). (Other scatter is also created where creosote is absent, as discussed later.) A few nanoseconds later, when the laser is turned off, the excited PAH molecules in the creosote 'emit' various characteristic wavelengths of light (for example, yellow, orange, red) which creates the emission/fluorescence signature on the charts.

For the second component of time-resolved fluorescence, fluorescence is time dependent (temporal in nature) whereby the immediate profile of the green laser is followed by the resulting 'fluorescence decay pulse.' Each of the emitted wavelengths/colors is received over time (nanoseconds) in sequence. In particular, the rate of fluorescence decay varies with the fluorescing material (e.g., the various PAH compounds that comprise the creosote DNAPL). The spectral and temporal nature of time-resolved fluorescence is demonstrated in **Figure TG-A**.

For each laser-induced fluorescence pulse within a given boring (three individual pulses per inch of soil column), a waveform signature is generated. Example waveforms, also known as 'callout boxes', are illustrated in **Figure TG-B**. Clean soil versus DNAPL-bearing soil is apparent for each of the waveform signatures. However, the background can vary significantly from one waveform signature to the next because of a number of variables (e.g., soil color, soil type, porosity). Therefore, the TarGOST® operator selects a background or 'system' waveform for each log. If appropriate for the background waveform, the pulses can be combined and averaged over a given interval (all pulses from 30 to 35 feet below ground surface). Ideally, if available, clean non-fluorescing soil obtained from different horizons at the site is sometimes used for the background waveforms.

Many natural materials fluoresce. Documented examples of materials that fluorescence include peat, crushed limestone, and shell hash. In addition, certain types of natural soil are occasionally encountered at some sites. If the site is not overly complex, the fluorescing signature of natural material can be eliminated from the TarGOST® log using proprietary software at Dakota Technologies.

Explanation of the TarGOST Logs

The various columns on the TarGOST® log are indicative of the type of fluorescing material encountered, with other information concerning the intervening soil. A breakdown of the various features on the logs is presented in **Figure TG-C**. As indicated, the Main Plot occupies the most area on the log, and represents the total fluorescence versus depth relative to the Reference Emitter (RE). The RE is essentially a standard to which all measurements in the subsurface are compared. Specifically, at the start of each day, the TarGOST® technician applies a creosote standard solution on the TarGOST® window on the probe, activates the laser, and calibrates the instrument. The fill color on the Main Plot is based on the contribution of the scatter and fluorescence columns, explained below.

The combined colors derived on the Main Plot equal the Fluorescence Only Plot divided by the Scatter Plot. The Scatter Plot represents scatter versus depth where intensity is relative to the scatter level of the RE. The Fluorescence Only Plot represents the fluorescence signal alone versus depth. Note the small color-coded bars at the top of the Main Plot and the Fluorescent Only Plot. Each of the four colors represents the four channels recording scatter and time-resolved fluorescence. As illustrated, the Main Plot combines all colors (blue, green, orange, and red) to arrive at the final color, whereas the Fluorescent Only Plot only uses green, orange, and red to arrive at the final color (such as, the blue channel is grayed out on the color bar). The blue channel is the first signal to arrive, and is always representative of the scatter.

The callout boxes, also known as waveforms, are along the left side of the TarGOST® log. While in the field, the TarGOST® operator and geologist select either an exact depth or a range of depths to arrive each callout box. For the examples in **Figure TG-C**, the five callout boxes each represent a range of depths as listed immediately below the callout box (7.24 to 8.06 feet). Each of the four colored peaks with the callout box represents light arriving from the four individual wavelengths (532nm – scatter, and 570, 620, and 670 nm). Various fluorescing materials will have a different waveform fingerprint. In other words, PAHs will have a different arrangement of peaks compared to naturally fluorescing soil (for example, inorganic soil), if present. The individual peaks will have different heights in addition to broadening of one or more channels in the time domain (different areas for each peak).

Finally, the far right column is the Rate Plot recorded during advancement of the DPT tools / TarGOST® probe. Ideally, the DPT operator advances the probe at the preferred rate of less than 2 centimeters per second. Where loose soil (such as sand) is encountered, the DPT operator generally uses the weight of the rig to push the drill rods and probe. Where stiff/hard material is encountered (such as clay), the DPT operator necessarily activates the hydraulic hammer on the rig to advance the probe. The red fill on the Rate Plot represents hammer counts, or the number of strikes used to advance the probe. Therefore, the rate and hammer counts can be indicative of soil type.

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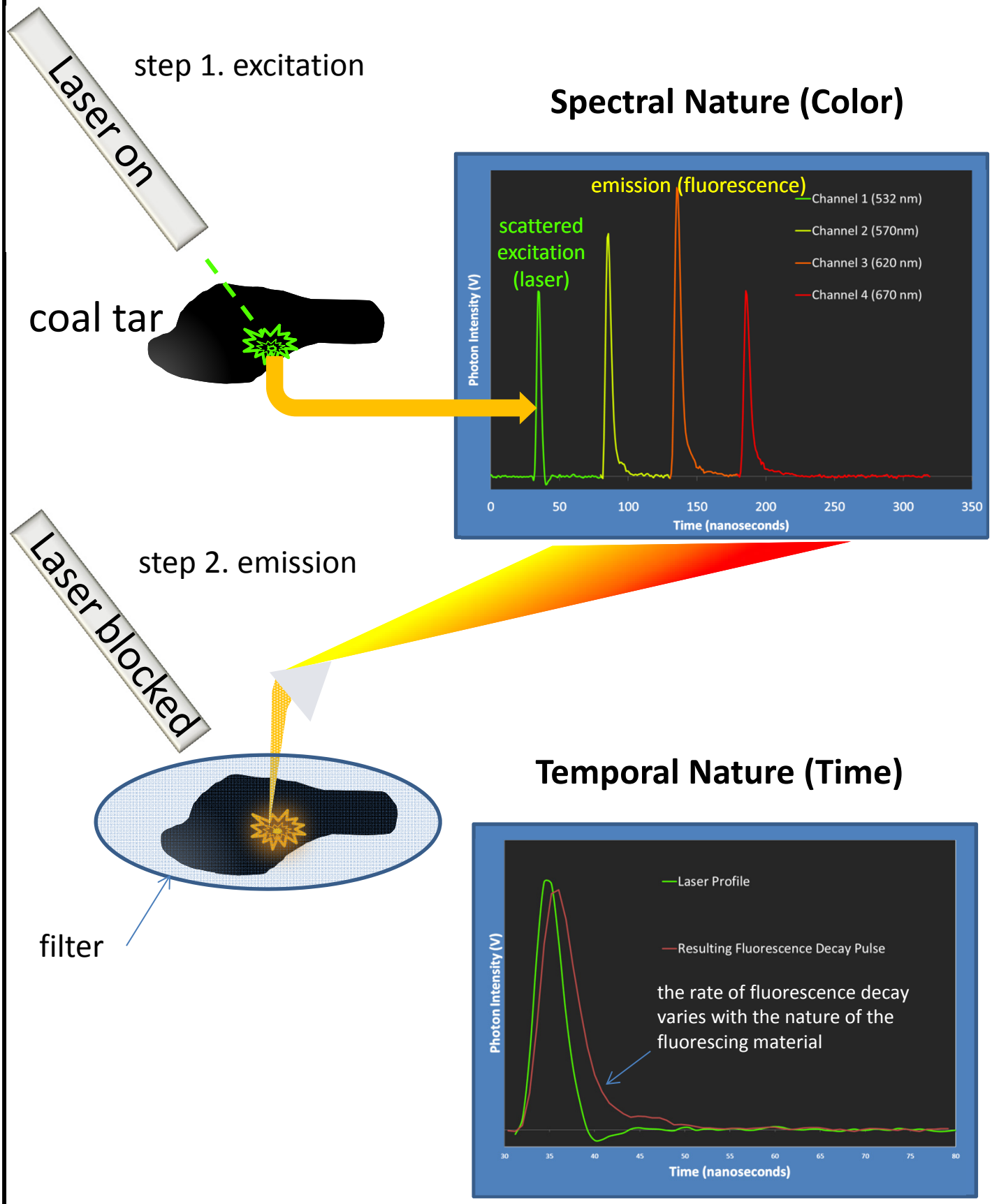
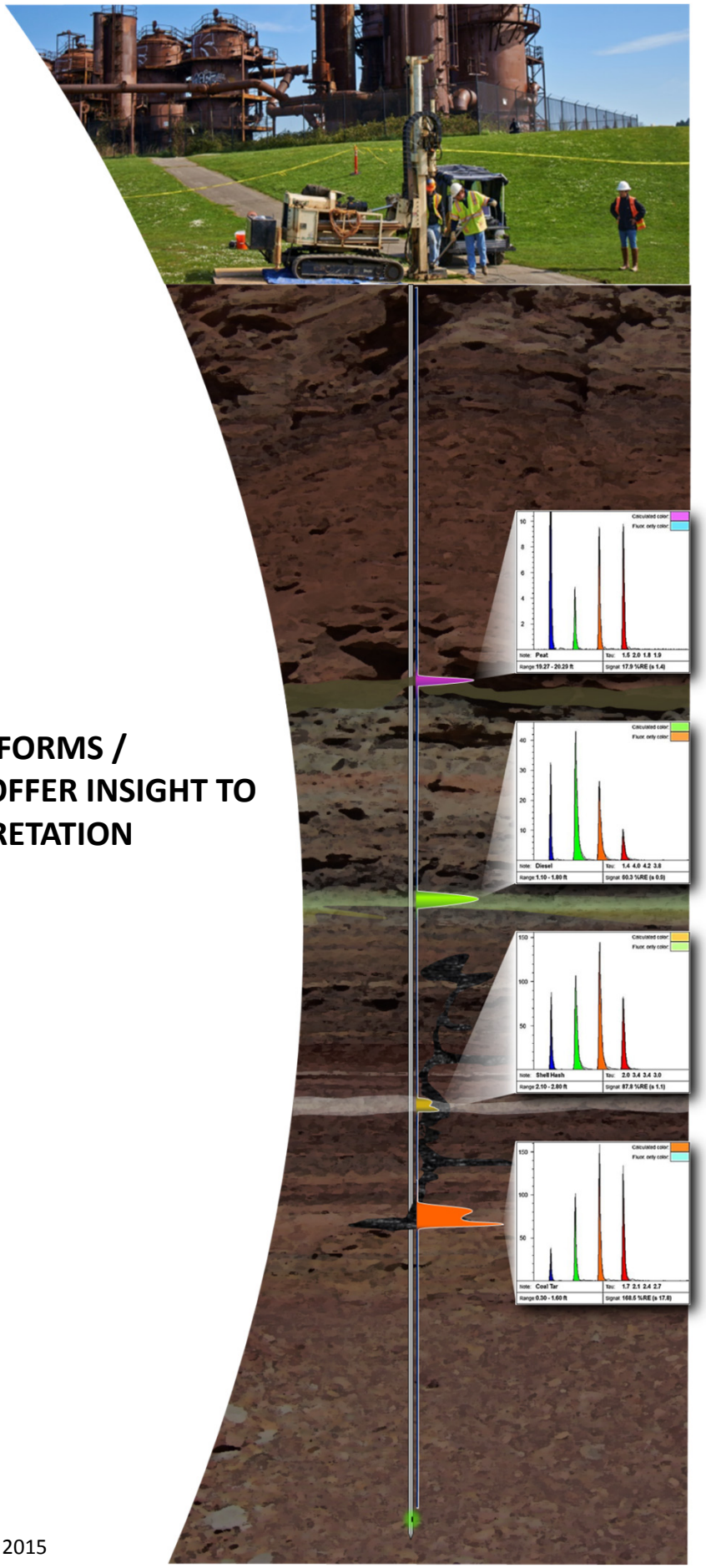
Time-Resolved Fluorescence



FROM DAKOTA TECHNOLOGIES, 2015

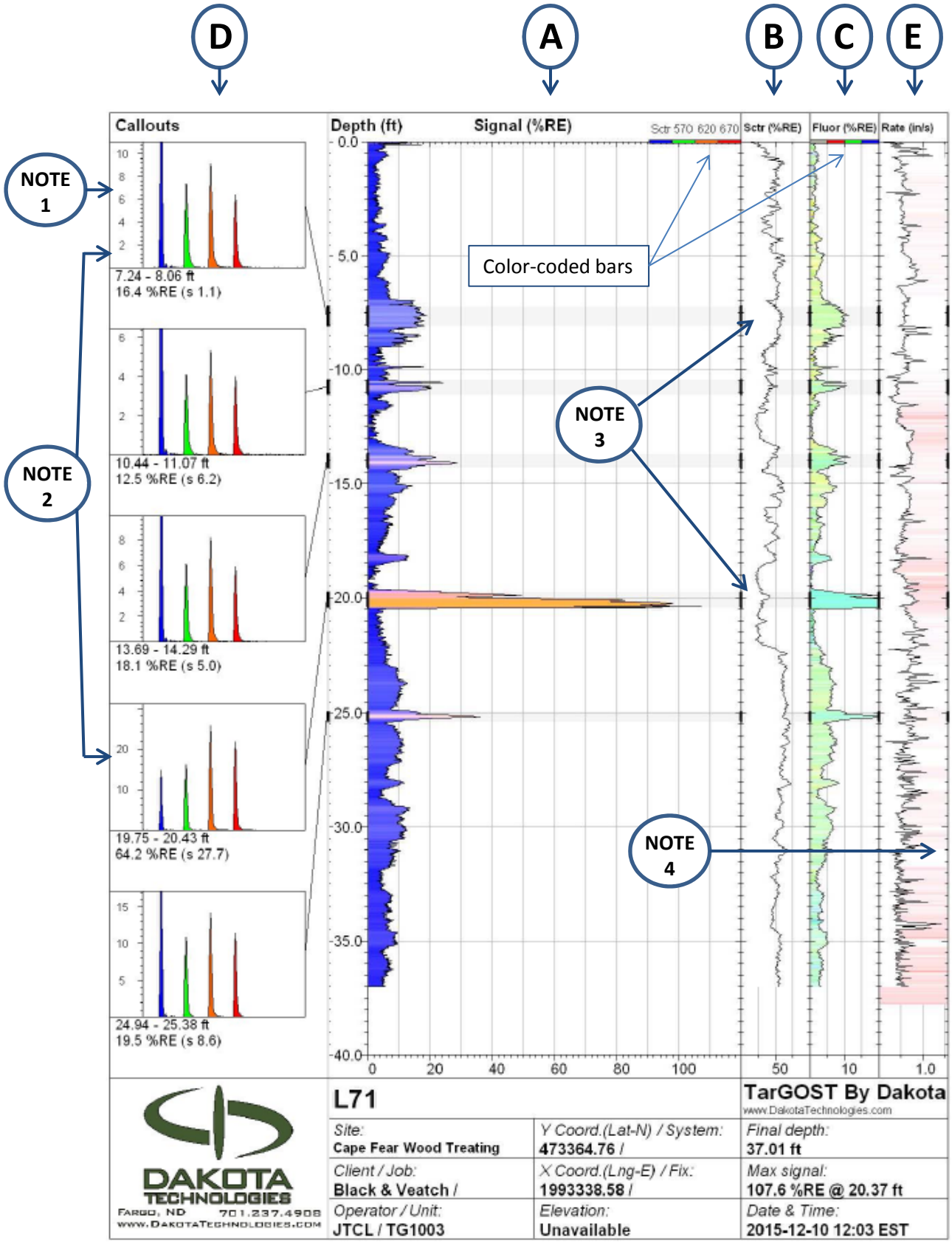
	CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
	USEPA	04/05/16	2	049066	CAPE FEAR	TIME-RESOLVED FLUORESCENCE	TG-A



RESULTING WAVEFORMS / CALLOUT BOXES OFFER INSIGHT TO TARGOST INTERPRETATION

FROM DAKOTA TECHNOLOGIES, 2015

	CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
	USEPA	03/23/16	1	049066	CAPE FEAR	CALLOUT BOXES: GENERAL ILLUSTRATION	TG-B

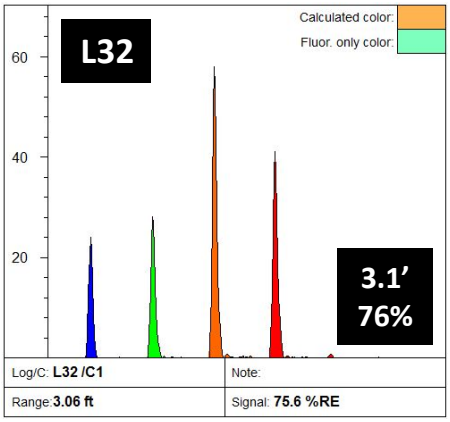


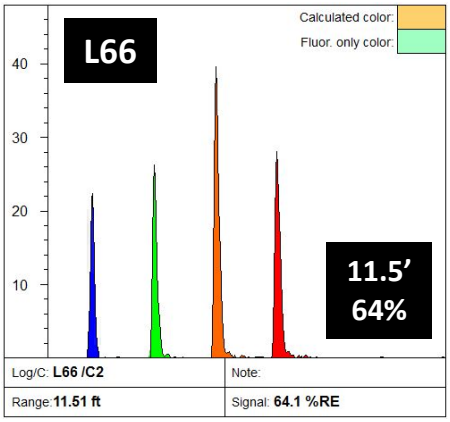
A = Main Plot
B = Scatter Plot
C = Fluorescence Only Plot
D = Callout box a.k.a Waveform
E = Rate Plot (DPT speed)

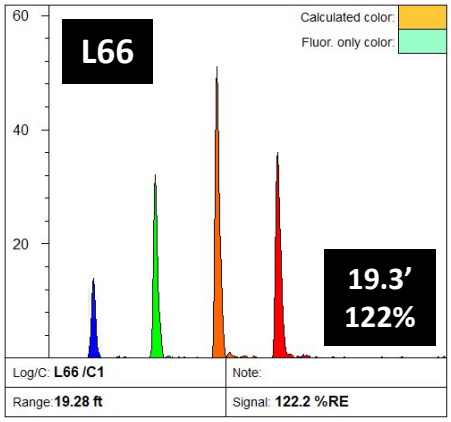
NOTES:
(1) For each waveform / callout box, time is along the X axis which is roughly 250 ns wide. The Y axis is in mV and corresponds to light striking the detector.
(2) Two different waveforms representing false positive (top) & DNAPL (bottom).
(3) Top zone has moderate fluorescence with high scatter, while the bottom zone has high fluorescence with low scatter. Note color difference in Column C.
(4) The red fill is hammer blows, and along w the rate is indicative of soil type.

CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
USEPA	04/05/16	2	049066	CAPE FEAR	EXPLANATION OF TARGOST LOG	TG-C

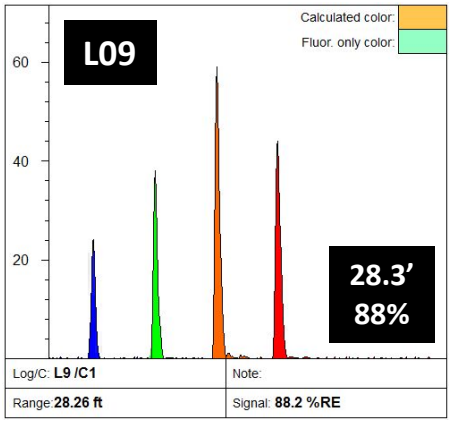
SOUTH PLUME 2009

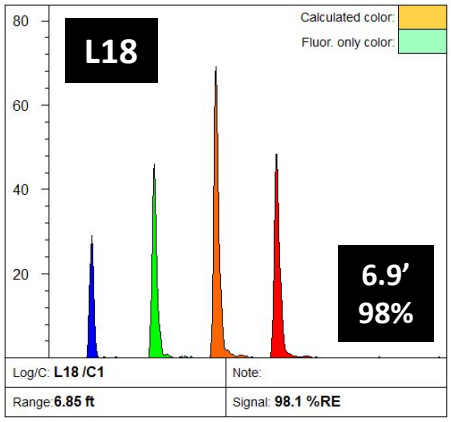


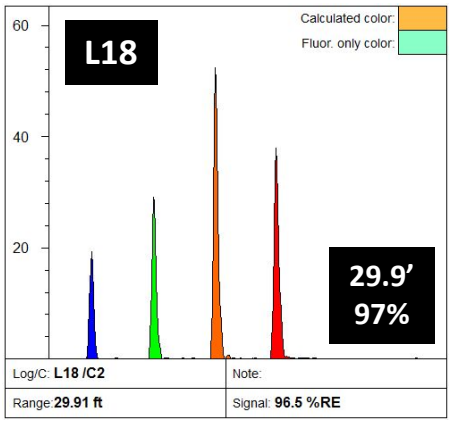


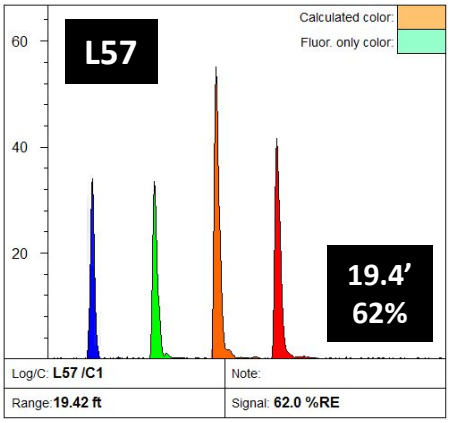


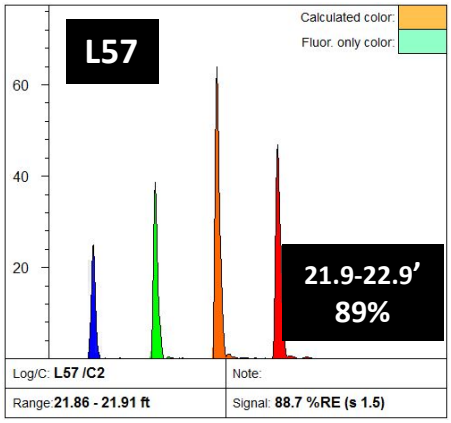
NORTH PLUME 2009











CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
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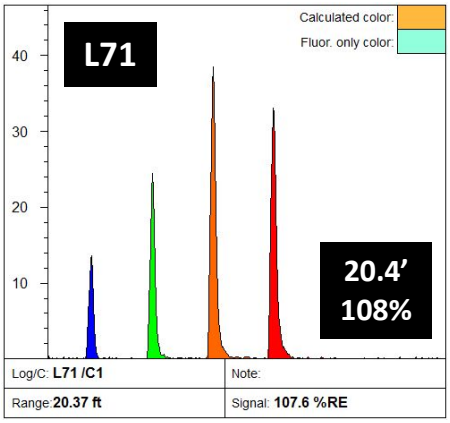
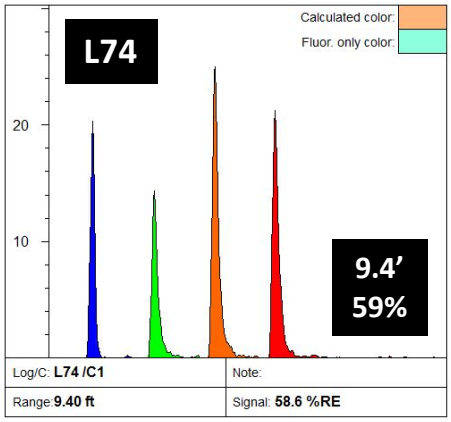
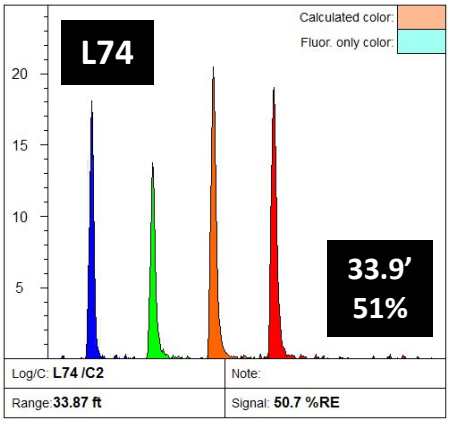
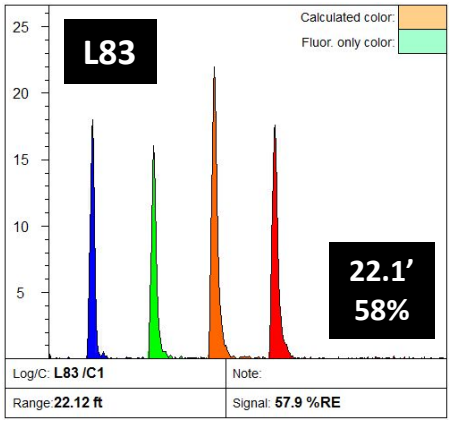
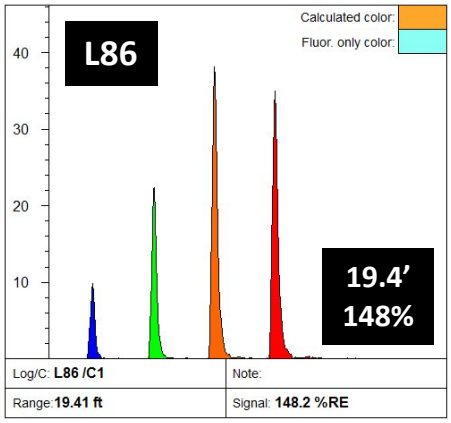
NORTH PLUME 2015

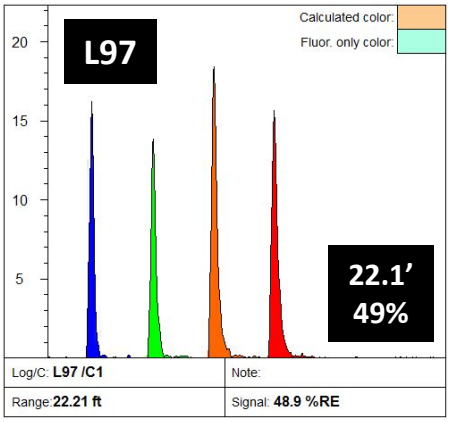


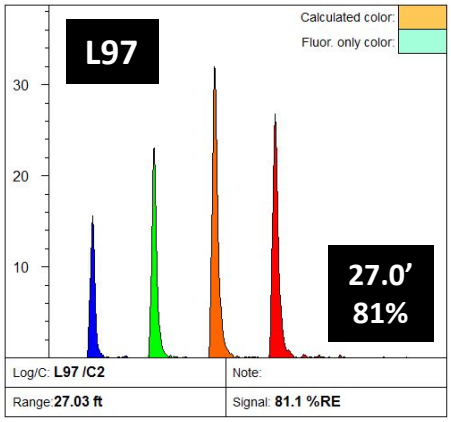


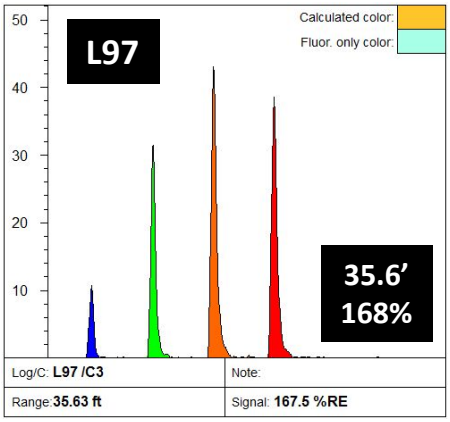






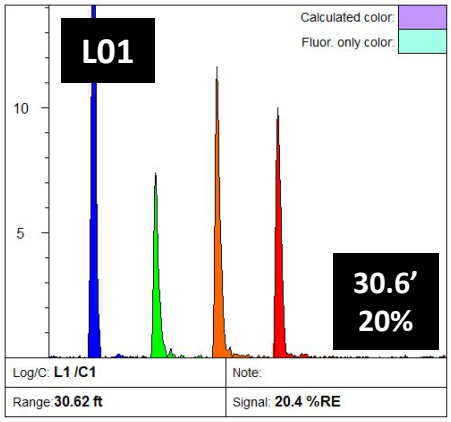


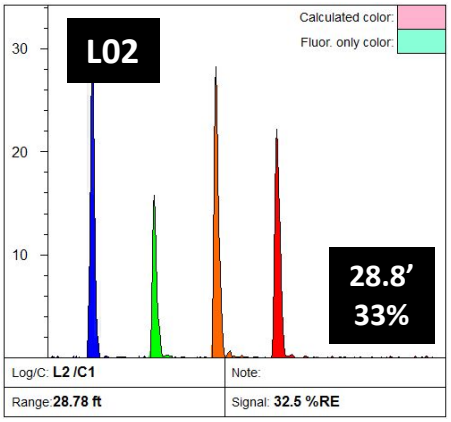


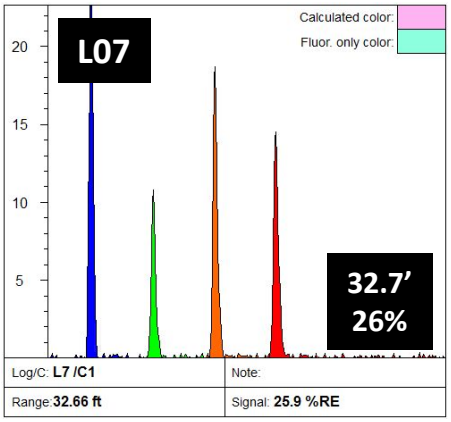


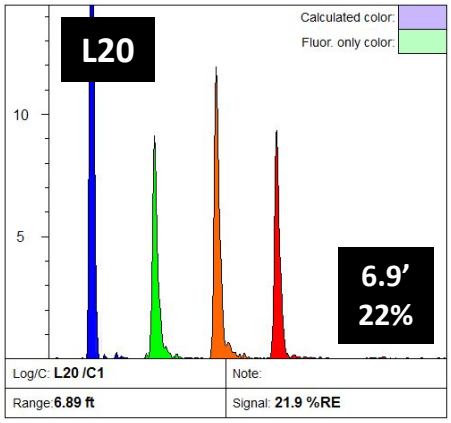
CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
USEPA	03/18/16	1	049066	CAPE FEAR	CALLOUT BOXES: DNAPL – HIGH %RE	TG-E

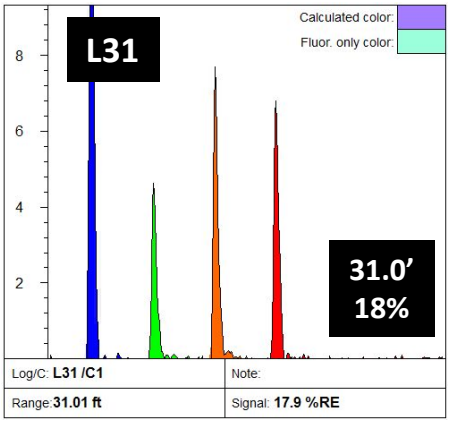
NORTH & SOUTH PLUMES 2009: PROBABLE DNAPL

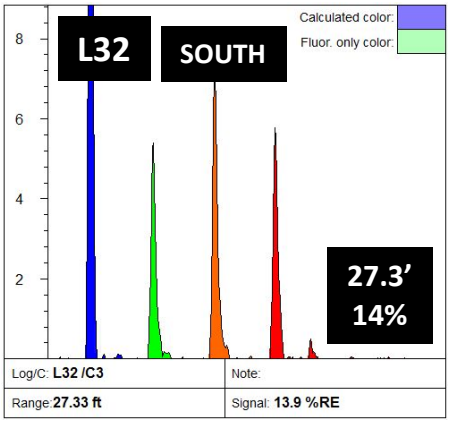


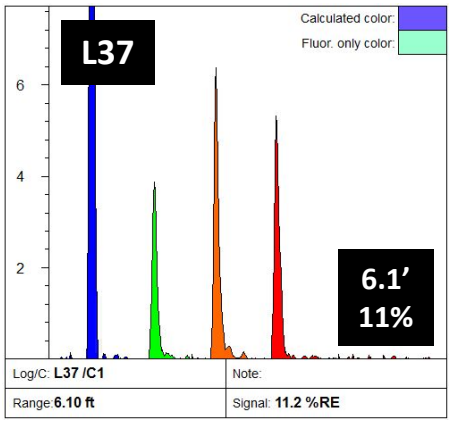


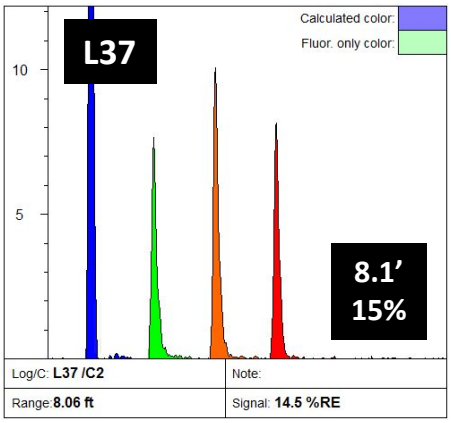


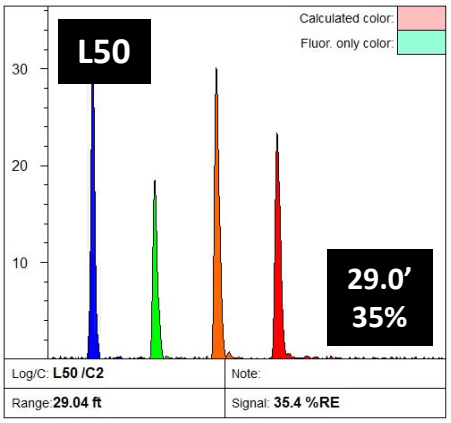




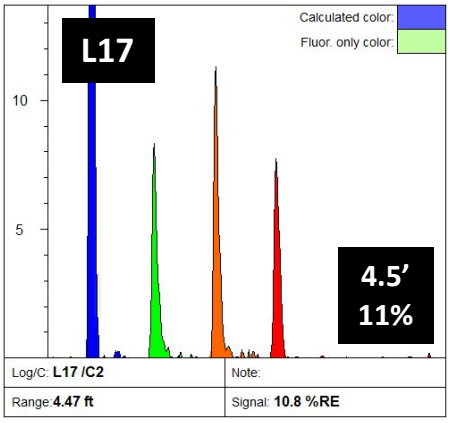


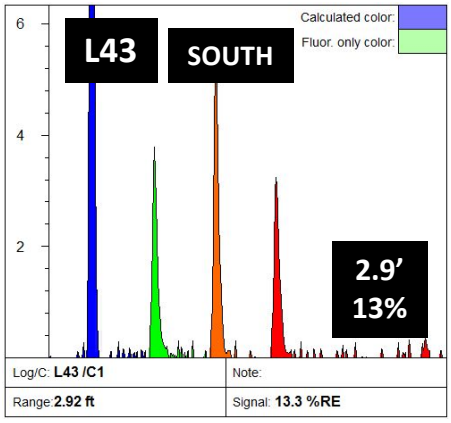






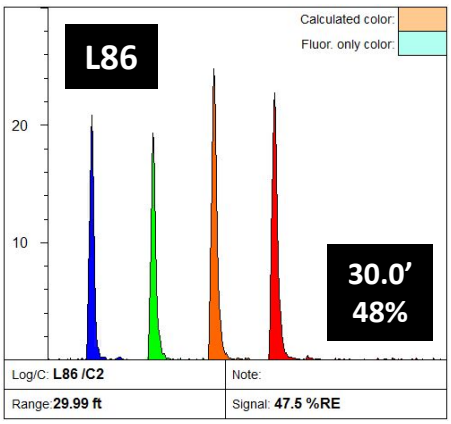
NORTH & SOUTH PLUMES 2009: UNLIKELY DNAPL

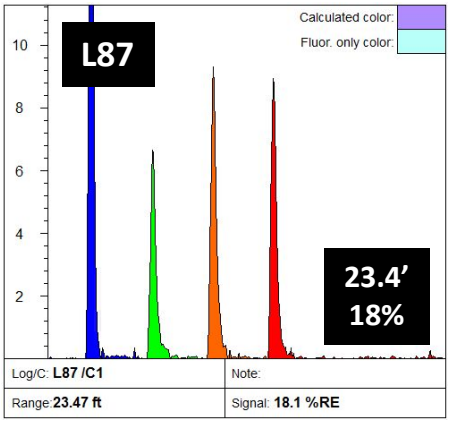


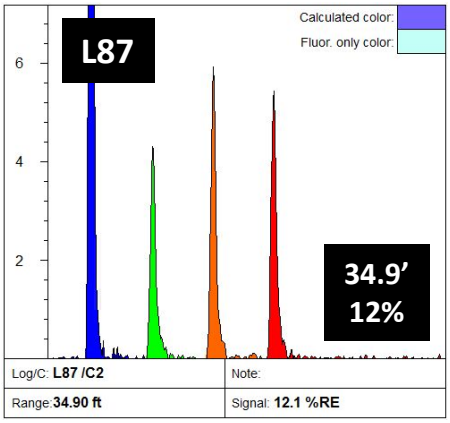


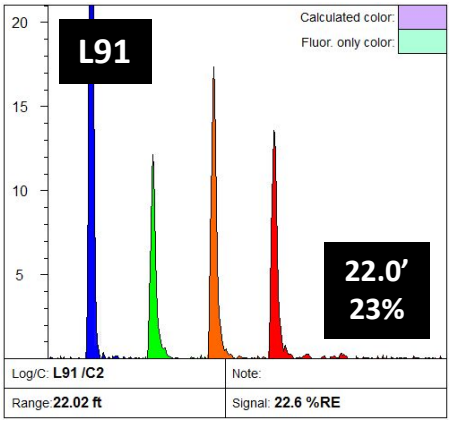
	CLIENT: USEPA	DATE 03/18/16	VERSION 1	PROJECT # 049066	PROJECT CAPE FEAR	TITLE: CALLOUT BOXES: PROBABLE DNAPL WITH EXCEPTIONS	FIGURE TG-F

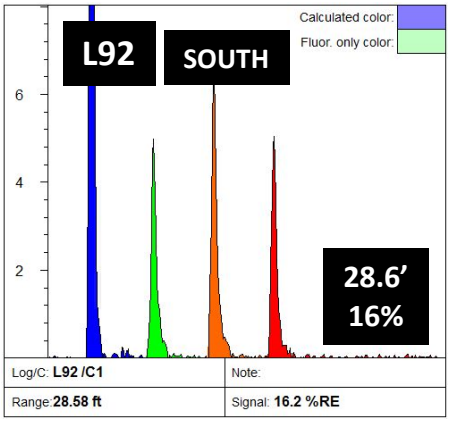
NORTH & SOUTH PLUMES 2015: PROBABLE DNAPL

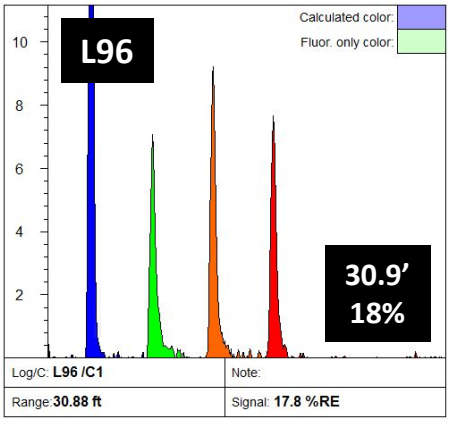






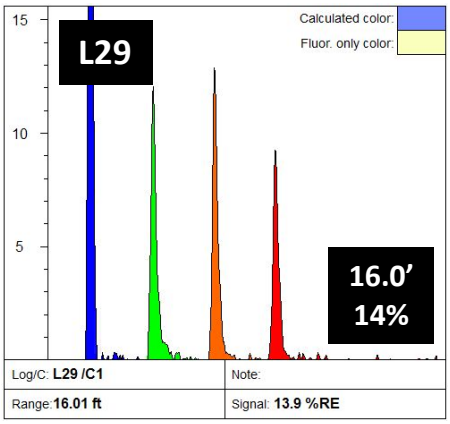


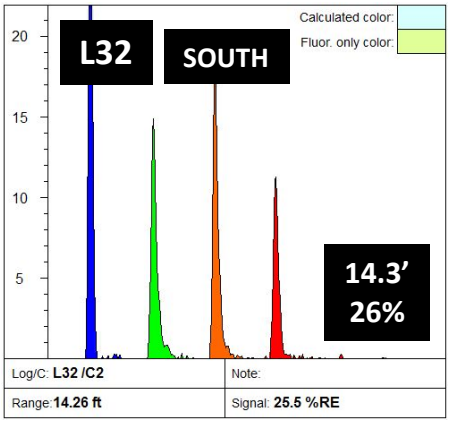


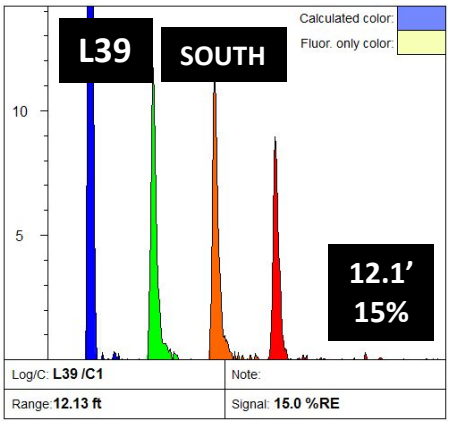


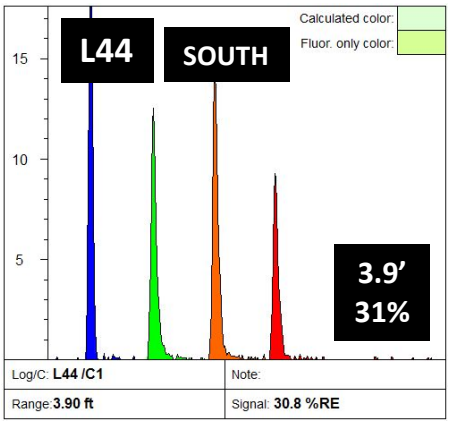
CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
USEPA	03/18/16	1	049066	CAPE FEAR	CALLOUT BOXES: PROBABLE DNAPL	TG-G

NORTH & SOUTH PLUMES 2009: NO NAPL / NATURAL YELLOWISH FLUORESCENCE

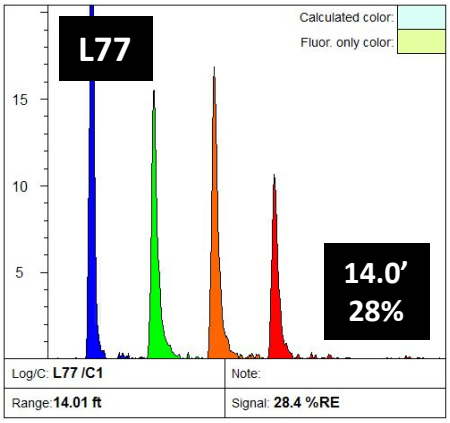


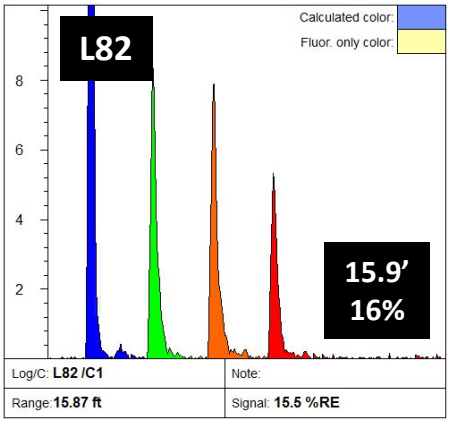


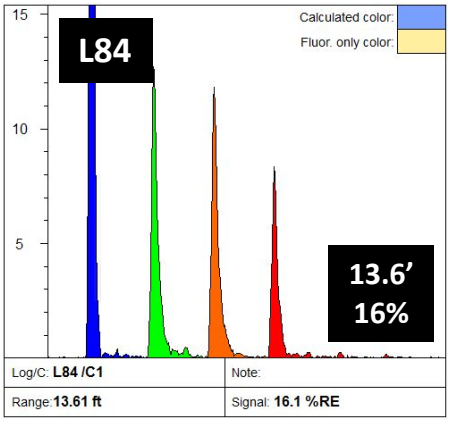


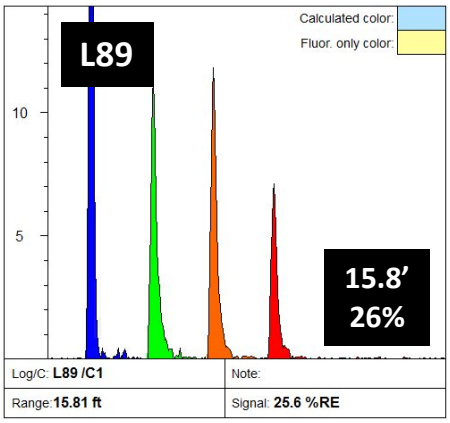


NORTH PLUME 2015: NO NAPL / NATURAL YELLOWISH FLUORESCENCE



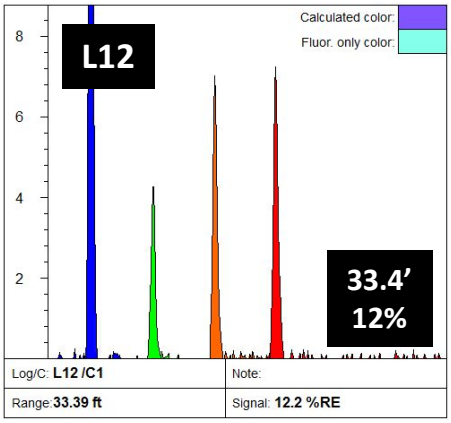


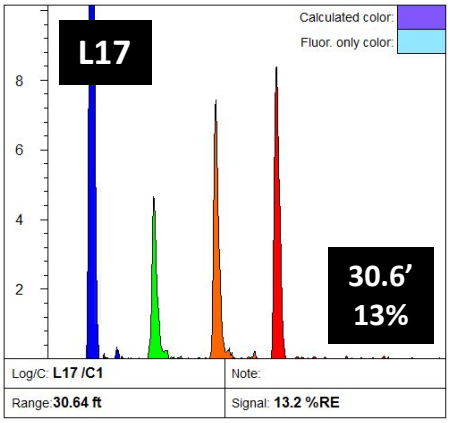


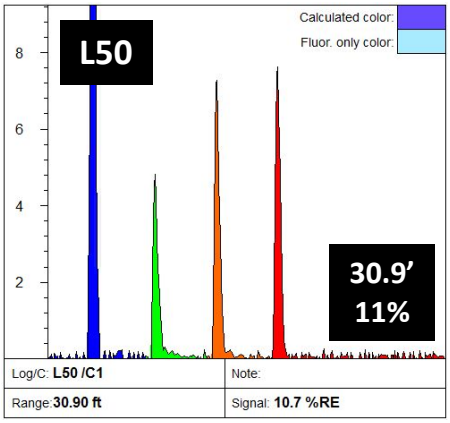


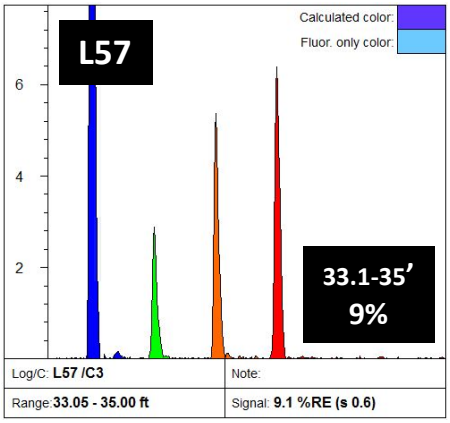
CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
USEPA	03/18/16	1	049066	CAPE FEAR	CALLOUT BOXES: NATURAL YELLOWISH / NO DNAPL	TG-H

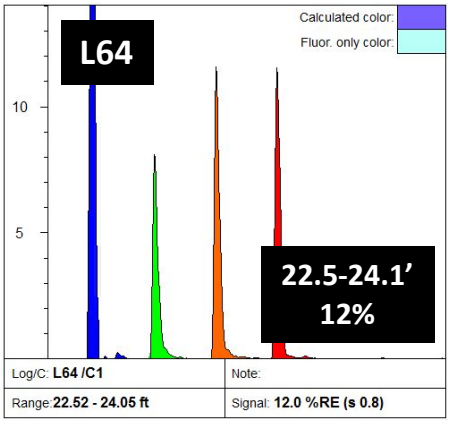
NORTH PLUME 2009: NO NAPL / NATURAL BLUE FLUORESCENCE



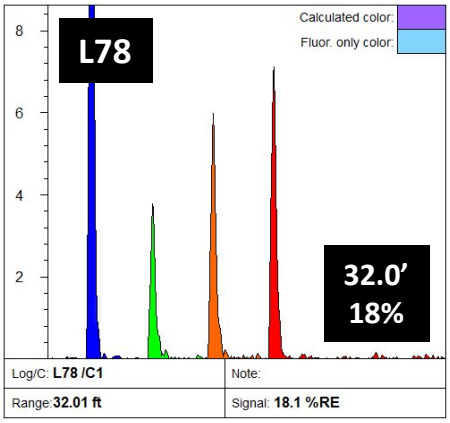


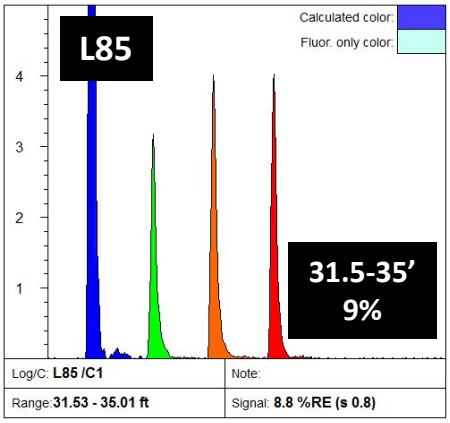


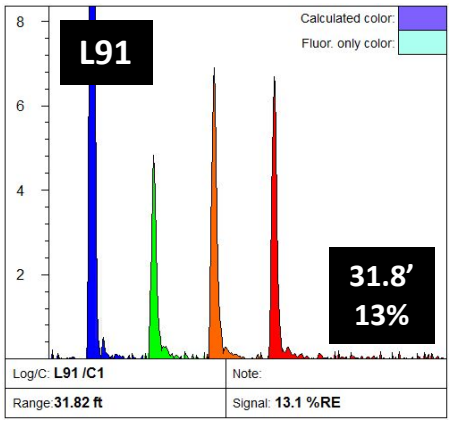




NORTH PLUME 2015: NO NAPL / NATURAL BLUE FLUORESCENCE

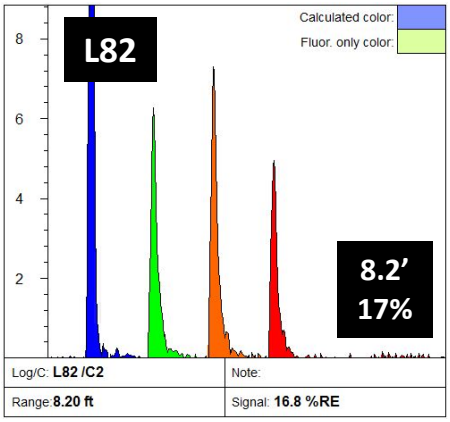


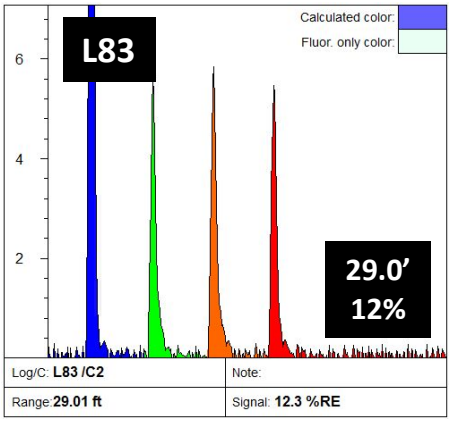


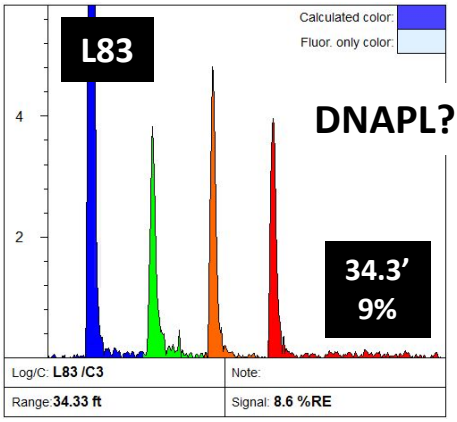


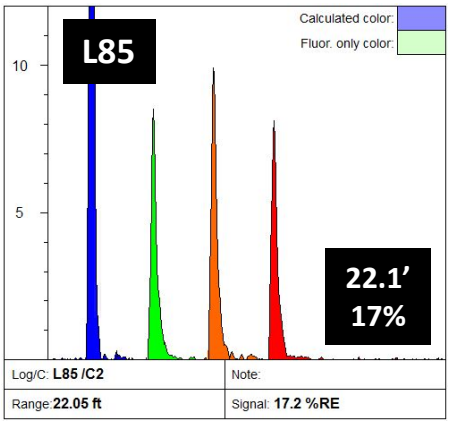
	CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
	USEPA	04/05/16	2	049066	CAPE FEAR	CALLOUT BOXES: NATURAL BLUISH / NO DNAPL	TG-I

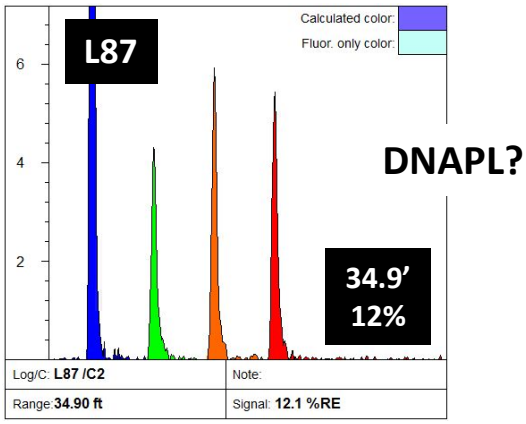
NORTH PLUME 2015: WASHED OUT – ALTERNATING – MERGING FLOURESCENCE

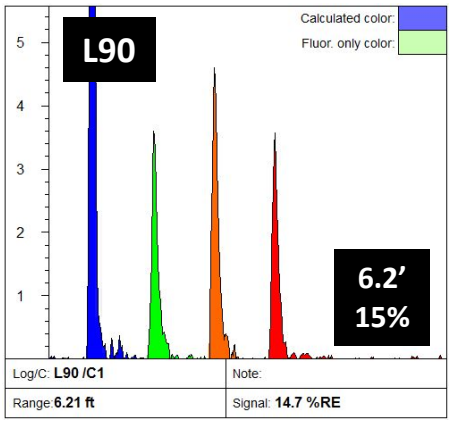


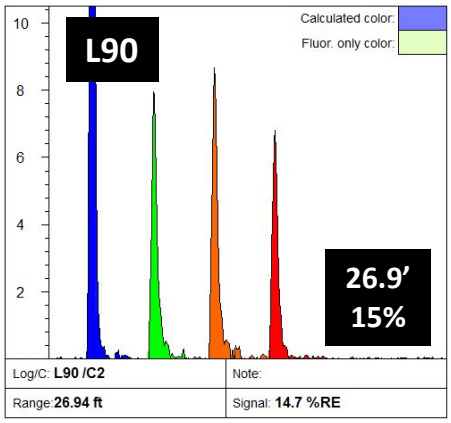


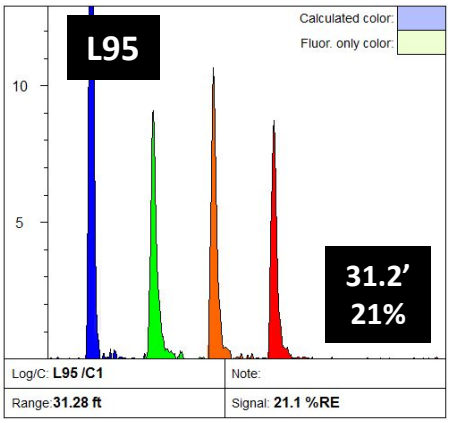


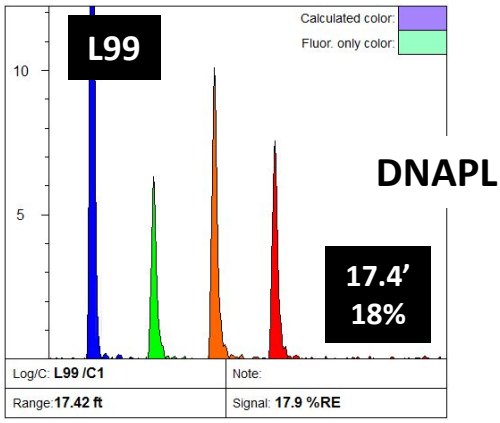












CLIENT:	DATE	VERSION	PROJECT #	PROJECT	TITLE:	FIGURE
USEPA	03/18/16	1	049066	CAPE FEAR	CALLOUT BOXES: WASHED OUT FLUORESCENCE	TG-J

Attachment C. Sonic Boring Logs

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Well/Boring No. L19

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473258.88 E 1993439.7 NC State Plane NAD83	237.08 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:51:05 -05'00'

Sonic Tools (4x6" soil) (3x5" rock)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	3	30	-	-	-	0			Topsoil; organic	
								1			Silty SAND; black; fine grained; well sorted	Boring cleared for utilities prior to drilling
								2				Black soil from 0.5 to 17' represents incinerated soil deposited in the 1990s.
								3			No recovery 3'-10' bls	
								4				
								5				
								6				
								7				
								8				
								9				
SB	2	10	9	90	-	-	-	10			Silty SAND; black to dark brown; fine grained; well sorted; subangular; moist	
								11				
								12				
								13				
								14				
								15				
								16				
								17			Clayey SAND; yellowish tan with orangish pink laminations; black to gray creosote staining at 17.25' and 17.75' bls; creosote stained lenses occur in loose, medium grained sand; creosote odor; medium dense; well sorted; fine to medium grained	
								18			Silty SAND; orangish brown; creosote odor; loose; well sorted; fine to medium grained	
								19			No recovery 19'-20' bls	
								20				

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Well/Boring No. L19

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473258.88 E 1993439.7 NC State Plane NAD83	237.08 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:51:30 -05'00'

Sonic Tools (4x6" soil) (3x5" rock)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Silty SAND; brown to yellowish tan; creosote saturation throughout; oily; creosote odor; loose; well sorted; medium grained	
								21				
								22				
								23			Black staining	
											Clayey SAND; red, pink, yellow, white laminated; black creosote staining along laminations from 24 to 25' bls; creosote odor; dense; fine grained; moist; higher clay content in top 0.3'	
								24				
								25			SAND; black, creosote saturation; loose; medium grained; wet	
											Silty SAND; pink, yellowish tan, orange laminated and yellowish tan at base; creosote odor throughout; dark gray creosote staining along band at 25.8' bls; loose; well sorted	
								26				
								27			Silty CLAY; tan, white, orangish brown laminated; creosote odor throughout; soft; low plasticity	
								28			CLAY; pink, brown, orange laminated; firm; medium plasticity; with some sand	
								29			Sandy CLAY; pink and light brown; low plasticity	
SB	4	10	8	80	-	-	-	30			Silty SAND; blackish brown; creosote staining and odor; well sorted; very fine grained; moist	
								31			Grading medium grained; saturated with creosote NAPL; visible sheen and odor; well sorted	
								32				Collected soil sample from 31.5' to 32' bls - SVOC and SPLP analysis
								33			Sandy CLAY; white to light brown; creosote odor; black staining in stringer at 33.3' bls; low plasticity; sand is fine grained	
								34			Grading to white and light brown; creosote odor; stiff; medium plasticity	
								35			with increasing sand	
								36			SAND; loose; well sorted; fine grained; with some silt and clay	
								37			Sandy CLAY; orangish brown to gray with light brown laminations; firm; plastic	
								38			SAND; reddish brown; loose; well sorted; very fine grained; with some silt	
								39			No recovery from 38'-40' bls	Boring terminated at 40' bls
								40				

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Well/Boring No. L57

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - outside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473445.79 E 1993410.13 NC State Plane NAD83	237.05 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:51:52 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	3.5	35	-	-	-	0			Silty SAND; dark brown; well sorted; moist	Boring cleared for utilities prior to drilling
								1			Grading light brown	
								2			Grading brown and red laminated	
								3				
								4			No recovery 3.5'-10' bls	
								5				
								6				
								7				
								8				
								9				
SB	2	10	7	70	-	-	-	10			Silty SAND; well sorted; fine grained; moist	
								11			Grading with some clay	
								12			Clayey SAND; brown and red; well sorted; with some silt	
								13				
								14			Grading to red, gray, brown laminated; creosote odor; dense; fine grained	
								15				
								16			SAND; creosote staining 16.5'-16.8' bls; creosote odor; well sorted; with some clay	Collected soil sample from 16.5' to 17' bls - SVOC and SPLP analysis
								17			No recovery 17'-20' bls	
								18				
								19				
								20				

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Well/Boring No. L57

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - outside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473445.79 E 1993410.13 NC State Plane NAD83	237.05 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:52:09 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Clayey SAND; reddish brown; faint creosote odor; well sorted; moist; with some silt	
								21			Silty SAND; grayish light brown; well sorted; fine grained; moist; with some clay	
								22			Creosote odor at 21.5'; grading pink	Collected soil sample from 21.5' to 22.5' bls - SVOC, SPLP, and residual saturation analysis
								23			Grading to pink, gray, brown laminated; creosote odor and NAPL sheen; moist	
								24			Clayey SAND; light brown; fine grained; moist; increasing clay with depth; with some silt	
								25			Sandy CLAY; gray; stiff; medium plasticity	
								26				
								27			Silty SAND; gray, brown laminated; dense; well sorted; fine grained; with some clay	
								28				
								29				
SB	4	8	6	75	-	-	-	30			SAND; gray; creosote saturation with sheen from to 30' to 30.5' bls; creosote odor throughout; coarse grained	
								31			Silty SAND: gray; creosote odor; fine grained	Collected soil sample from 30.5' to 31.5' bls - SVOC and SPLP analysis
								32			Clayey SAND; brown; dense	
								33			CLAY; gray to brown; very stiff; high plasticity	
								34				
								35			Sandy CLAY; gray; creosote odor; low plasticity	
								36			No recovery 36'-38' bls	
								37				
								38				Boring terminated at 38' bls
								39				
								40				

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Well/Boring No. L72

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - east ROW Reilly Rd	28'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473347.64 E 1993339.42 NC State Plane NAD83	237.6 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:52:30 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	4	4	100	-	-	-	0			SAND; gray to brown; loose; well sorted; fine grained; moist	Boring cleared for utilities prior to drilling
								1				
								2				Two adjacent borings advanced because of poor recovery in first boring.
								3				
SB	2	6	2	33	-	-	-	4			Grading to gray to yellowish brown; mottled with red to gray clay; fine to medium grained	
								5				
								6			No recovery 6'-10' bls; driller believed formation is loose sand	
								7				
								8				
								9				
SB	3	10	10	100	-	-	-	10			SAND; yellowish brown; well sorted; moist; with trace clay	
								11				
								12			With increasing gray clay	Collected soil sample from 12' to 12.5' bls - SVOC and SPLP analysis
								13			Silty CLAY; red and pink mottled; soft then stiff; non-plastic to low plasticity; moist	
								14				Collected soil sample from 13.5' to 14' bls - SVOC and SPLP analysis
								15				
								16				Collected soil sample from 15.5' to 16' bls - SVOC and SPLP analysis
								17				
								18				Collected soil sample from 19' to 20' bls - SVOC and SPLP analysis
								19				
								20				

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Well/Boring No. L72

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - east ROW Reilly Rd	28'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473347.64 E 1993339.42 NC State Plane NAD83	237.6 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:52:47 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	4	8	8	100	-	-	-	20			Clayey SAND: red; creosote staining and odor; moist	
								21			Grading increasing clay	
								22				
								23			Silty CLAY; red, pink mottled; stiff; medium to high plasticity; with trace fine grained sand	
								24				
								25				
								26			SAND; brown; creosote NAPL sheen; strong odor; moist	Collected soil sample from 26' to 27' bls - SVOC, SPLP, and NAPL mobility analysis
								27			Silty CLAY; brown, tan, red; stiff; medium to high plasticity; moist	
								28				Boring terminated at 28' bls
								29				
								30				
								31				
								32				
								33				
								34				
								35				
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L76

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473224.77 E 1993359.63 NC State Plane NAD83	236.7 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:53:03 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	4	40	-	-	-	0			Topsoil with medium grained sand; light brown; creosote odor; well sorted	Boring cleared for utilities prior to drilling
								1			SAND; orangish brown; loose; well sorted; low moisture; with some clay and silt	
								2			Clayey SAND; well sorted; low moisture; with some silt	TarGOST® L76 advanced alongside fenceline, whereas sonic bore L76 advanced 21' SE and 9' SSW of TarGOST® L76 because of OH and UG utilities
								3				
								4			No recovery 4'-10' bls	
								5				
								6				
								7				
								8				
								9				
SB	2	10	10	100	-	-	-	10			Sandy CLAY; orangish brown; creosote odor; medium plasticity; moist	
								11			Silty SAND; light brown and orangish brown laminations; creosote odor; well sorted; with some clay	
								12				
								13			With gray and pink laminations	
								14			Grading to light brown and gray; creosote odor; moist	
								15				
								16				
								17			Grading to orangish brown; creosote saturation with sheen and odor; no clay	Collected soil sample from 16.7' to 17.3' bls - SVOC and SPLP analysis
								18			Grading to light brown, black, brown laminated; creosote staining at 18'; sheen and odor	
								19			Clayey SAND; brown to gray; creosote odor; well sorted	
								20			CLAY; pink; creosote odor; plastic; with some sand	

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Well/Boring No. L76

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473224.77 E 1993359.63 NC State Plane NAD83	236.7 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:53:26 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Sandy CLAY; white to gray, pink, brown laminated; creosote odor from 20'-22' bls; medium plasticity	
								21				
								22			Clayey SAND; brown and pink; well sorted; fine grained; moist; with some silt	
								23				
								24			SAND; pinkish brown; dense; well sorted; with some clay and silt	
								25				
								26			Sandy CLAY; light brown; firm; medium plasticity	
								27				
								28			CLAY; light brown; stiff; medium plasticity; with some sand	
								29				
SB	4	8	8	100	-	-	-	30			Sandy CLAY; pink and brown; creosote odor; medium plasticity	
								31			Silty SAND; brown; well sorted; medium grained; wet (drilling water)	
								32				
								33			Clayey SAND; creosote odor; well sorted; moist; with some silt	Collected soil sample from 33' to 34' bls - SVOC and SPLP analysis
								34			Sandy CLAY; brown; stiff; medium plasticity	
								35			CLAY; brown; very stiff; high plasticity; with some sand	
								36				
								37				
								38				Boring terminated at 38' bls
								39				
								40				

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Well/Boring No. L77

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473027.91 E 1993460.04 NC State Plane NAD83	238.0 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:53:45 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	8.5	85	-	-	-	0			SAND; gray to brown; well sorted; fine to medium grained; moist; with trace organics and trace gravel	Boring cleared for utilities prior to drilling
								1				
								2				
								3				
								4				
								5				
								6				
								7				
								8			Sandy CLAY; gray; stiff to very stiff; medium to high plasticity; moist	
								9			No recovery 8.5'-10' bls	
SB	2	10	8.5	85	-	-	-	10			Sandy CLAY; gray; slight creosote odor; stiff to very stiff; medium to high plasticity; moist; with some silt	
								11				
								12				
								13			Increasing silt	
								14				
								15			Silty CLAY; yellow-brown; slight odor; stiff; low to medium plasticity; moist	
								16				
								17				
								18				
								19			No recovery 18.5'-20' bls	
								20				

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Well/Boring No. L77

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473027.91 E 1993460.04 NC State Plane NAD83	238.0 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	5	5	100	-	-	-	20			Silty SAND; yellow-brown; strong creosote odor to 21' bls; moist	
								21				
								22			trace gray sand	
											Silty CLAY; gray to brown; slight creosote odor; non-plastic to low plasticity; moist	
								23			Sandy CLAY; reddish brown to yellow with red laminations; low to medium plasticity; moist; sand is fine grained	
								24				
SB	4	10	10	100	-	-	-	25			Clayey SAND; yellowish brown with red mottling; medium grained; moist	
								26				
								27				
								28			Silty CLAY; red, yellowish brown with yellow laminations; very stiff; high plasticity; moist; silt increases with depth	
								29				
								30			Sandy CLAY; yellowish brown; stiff; low to medium plasticity; moist; increasing clay and silt with depth	
								31			grading to very stiff; high plasticity	
											Silty CLAY; yellowish brown; low to medium plasticity; silt increases with depth	
								32				Collected soil sample from 32' to 33' bls - SVOC and SPLP analysis
								33				
								34				
								35				Boring terminated at 35' bls
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L79

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	26'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473096.51 E 1993421.87 NC State Plane NAD83	237.6 NAVD88	12/9/15	12/9/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	6	60	-	-	-	0			Silty SAND; black to brown; fine to medium grained; trace organics; moist; fill material	Boring cleared for utilities prior to drilling
								1				
								2				
								3				
								4				
								5			Black staining from 5' to 5.5' bls	
								6			Sandy CLAY; gray; very stiff; high plasticity; moist	
								7			No recovery 6'-10' bls	
								8				
								9				
SB	2	5	5	100	-	-	-	10			SAND; black to gray; NAPL sheen top 4"; creosote odor; medium grained; wet (drill water); with some clay	
								11			Grading to gray; red staining throughout; moist	
								12				
								13			Sandy CLAY; dark gray; stiff; low to medium plasticity; moist to wet	
								14			Increasing fine grained sand	
SB	3	11	10	91	-	-	-	15			Clayey SAND; black; medium stiff to soft; low plasticity to non-plastic; moist to wet	
								16			Creosote staining	
								17				
								18			Creosote staining	Collected soil sample from 18' to 19' bls - SVOC and SPLP analysis
								19			SAND; gray; creosote NAPL sheen and strong odor; fine to medium grained; with trace low to nonplastic clay	
								20				

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Well/Boring No. L79

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	26'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473096.51 E 1993421.87 NC State Plane NAD83	237.6 NAVD88	12/9/15	12/9/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
								20			SAND; gray; creosote NAPL sheen and strong odor; fine to medium grained; moist	
								21				
								22				Collected soil sample from 20' to 21' bls - SVOC, SPLP, and residual saturation analysis
								23			black creosote saturation from 23' to 24' bls	
								24			Sandy CLAY; red to pink to yellowish brown; medium stiff to stiff; low to medium plasticity; moist	
								25				Boring terminated at 26' bls
								26				
								27				
								28				
								29				
								30				
								31				
								32				
								33				
								34				
								35				
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L79A

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473096.51 E 1993421.87 NC State Plane NAD83	237.6 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler

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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	4	4	100	-	-	-	20			No core collected from 0-24' bls; logging commenced at 24' bls	
								21				
								22				
								23				
SB	4	6	6	100	-	-	-	24			Silty SAND; gray; creosote sheen and odor; well sorted; medium grained	
								25			Sandy CLAY; red, light brown, white laminated; creosote odor; low plasticity	
								26			creosote stain	
								27			SAND; medium grained; creosote odor; loose; moist; with some silt and clay	
								28			Silty SAND; light brown; creosote odor; loose; well sorted; fine grained	
								29			Grading to light brown, white, pink laminated; creosote odor; moist	
SB	5	5	5	100	-	-	-	30			Grading to gray and brown; creosote sheen and odor; loose; well sorted; medium grained	Collected soil sample from 30.5' to 31' bls - SVOC and SPLP analysis
								31			Sandy CLAY; light brown; creosote odor; stiff; medium plasticity	
								32			Lacking odor	
								33				
								34			Grading to light brown	
SB	6	5	5	100	-	-	-	35				
								36				
								37			CLAY; pink, brown, white laminated; very stiff; high plasticity	
								38				Boring terminated at 40' bls
								39				
								40				

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Well/Boring No. L80

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473303.73 E 1993478.96 NC State Plane NAD83	237.1 NAVD88	12/9/15	12/9/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:55:06 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	5.5	55	-	-	-	0			Silty SAND; black to brown; fine to medium grained; trace organics; fill material	Boring cleared for utilities prior to drilling
								1				
								2				
								3				
								4				
								5				
								6			No recovery 5.5'-10' bls	
								7				
								8				
								9				
SB	2	10	9.5	95	-	-	-	10			Silty SAND; black to brown; fine to medium grained; fill material	
								11				
								12				
								13			creosote staining at 13' bls	
								14			Sandy CLAY; yellowish brown with red laminations; moist; sand is fine to medium grained	
								15			SAND; yellowish brown, red layering; well sorted; fine to medium grained; moist	
								16			Creosote staining 15.7'-15.9' bls; strong odor	Collected soil sample from 16.3' to 16.9' bls - SVOC and SPLP analysis
								17				
								18				
								19			Sandy CLAY; yellowish brown; red laminations; medium stiff to stiff; low to medium plasticity; moist	Collected soil sample from 18.3' to 18.9' bls - SVOC and SPLP analysis
								20			No recovery 19.5'-20' bls	

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Well/Boring No. L80

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473303.73 E 1993478.96 NC State Plane NAD83	237.1 NAVD88	12/9/15	12/9/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	9	90	-	-	-	20			Sandy CLAY; yellowish brown; red laminations; medium stiff to stiff; low to medium plasticity; moist	
								21				
								22				
								23			Layer of red clay 23'-23.5' bls; very stiff; high plasticity	
								24			Silty CLAY; yellowish brown; laminations of brown clay; very stiff; high plasticity; moist	
								25				
								26				
								27				
								28			Grading medium stiff; low to medium plasticity	Collected soil sample from 28.5' to 29.3' bls - SVOC and SPLP analysis
								29			Sandy CLAY; yellowish brown; strong creosote odor; moist; medium stiff; low plasticity; sand is fine to medium grained sand	
SB	4	5	5	100	-	-	-	30				
								31			~2" creosote staining at 31' bls	
								32			Clay layer 32'-33' bls; yellow with red staining; high plasticity	
								33			Increasing fine to medium grained sand 33'-34' bls	
								34				
								35				Boring terminated at 35' bls
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L81

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473179.93 E 1993477.59 NC State Plane NAD83	238.0 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	5	5	100	-	-	-	0			Silty SAND; black to brown; well sorted; fine to medium grained; moist; trace organics in top 0.5'; fill material	Boring cleared for utilities prior to drililng
								1				
								2				
								3				
								4				
SB	2	10	10	100	-	-	-	5			SAND; yellowish brown; well sorted; fine to medium grained; moist	
								6				
								7			Sandy CLAY; yellowish brown; medium stiff to stiff; low to medium plasticity; moist; sand is fine grained	
								8			SAND: reddish brown; slight creosote odor; well sorted; moist	Collected soil sample from 8' to 9' bls - SVOC and SPLP analysis
								9			Sandy CLAY; yellowish brown; medium stiff to stiff; low to medium plasticity; moist; sand is fine grained; trace gray clay	
								10			Silty CLAY; yellowish brown with laminated gray to red clay; medium stiff to stiff; low to medium plasticity; moist	
								11				
								12				
								13				
								14				
SB	3	10	10	100	-	-	-	15			Sandy CLAY; yellowish brown; soft to stiff; low to medium plasticity; wet; trace red sand throughout	
								16				
								17			1" creosote stained band at 17' bls; slight creosote odor	
								18			Silty SAND; yellowish brown; medium stiff to stiff; low to non-plastic; moist; trace mottled gray clay	
								19				
								20			Red laminations at 19.5' bls	

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Well/Boring No. L81

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473179.93 E 1993477.59 NC State Plane NAD83	238.0 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
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Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
								20			SAND; yellowish gray to red to gray; strong creosote odor; well sorted; fine to medium grained; moist	
								21			Black creosote staining 20.5'-22.5' bls	Collected soil sample from 21.5' to 22.5' bls - SVOC and SPLP analysis
								22				
								23			Grading gray; no staining; slight creosote odor	
								24			Grading yellow with red/gray laminations	
SB	4	10	10	100	-	-	-	25			SAND; gray to black; creosote staining throughout with strong odor; well sorted; fine to medium grained	
								26			Brown clay layer from 26'-26.5' bls with no staining	
								27				
								28				
								29			With red/gray clay laminations; creosote staining and strong odor	
								30			Grading to yellow; no staining; strong odor; moist	Collected soil sample from 29.5' to 31.5' bls - SVOC and SPLP analysis
								31			Sandy CLAY; yellow; layered red/yellow clay; slight creosote odor; medium stiff to stiff; low to medium plasticity; with some fine to medium grained sand	
								32				
								33				
								34			Silty CLAY; yellowish brown; mottled yellow; slight creosote odor; medium stiff to stiff;low to medium plasticity; moist	
								35				Boring terminated at 35' bls
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L82

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.49 E 1993481.20 NC State Plane NAD83	237.6 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:56:18 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	6	60	-	-	-	0			Topsoil; organic	
								1			Silty SAND; black; well sorted; fill material	Boring cleared for utilities prior to drilling
								2				
								3				
								4				
								5			Silty CLAY; light brown to gray; stiff; medium plasticity; moist	
								6			Grading creosote odor; with occasional sand	
								7				
								8				Collected soil sample from 7.3' to 7.9' bls - SVOC, SPLP, and residual saturation analysis
								9				
SB	2	10	10	100	-	-	-	10			Grading light brown to gray; stiff; medium plasticity; moist; with occasional sand	Bored second time from 0 to 10' bls for full recovery and to collect shallow soil sample
								11				
								12				
								13			Clayey SAND; gray; well sorted	
								14			Silty SAND; orangish brown; creosote sheen at 15' bls; well sorted; medium to coarse grained; moist	
								15				
								16				
								17				
								18				
								19				
								20				

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Well/Boring No. L82

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.49 E 1993481.20 NC State Plane NAD83	237.6 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:56:34 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Silty SAND; orangish brown; well sorted; medium to coarse grained; moist	
								21				
								22			Grading light brown to orangish brown; creosote sheen; poorly sorted; with some pink/light red clayey sand with silt	
								23			Grading to light brown, gray, light red/pink; laminated; with some clay	
								24				
								25				
								26				
								27			CLAY; light brown; stiff; medium plasticity	
								28				
								29				
SB	4	8	6	75	-	-	-	30			Silty SAND; light brown and pink; well sorted; medium grained; moist	
								31				
								32			CLAY; light brown; very stiff; high plasticity	
								33				
								34				
								35			Clayey SAND; light brown; dense; well sorted	
								36			No recovery 36'-38' bls	
								37				
								38				Boring terminated at 38' bls
								39				
								40				

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Well/Boring No. L83

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grassy - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler

butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:56:48 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	5	50	-	-	-	0–5			Silty SAND; black; well sorted; fine grained; moist; fill material	Boring cleared for utilities prior to drilling
								5–10			No recovery 5' to 10' bls	
SB	2	10	5	50	-	-	-	10–15			Silty SAND; black; well sorted; fine grained; fill material Grading to pink and brown; creosote odor	
								15–18			No recovery 15' to 18' bls	
								18–20			Silty SAND; brown to black; creosote sheen and odor; loose; well sorted; fine to medium grained	

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Well/Boring No. L83

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grassy - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:57:03 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Silty SAND; brown to black; creosote sheen and odor; loose; well sorted; fine to medium grained	Collected soil sample from 20.5' to 21.5' bls - SVOC and SPLP analysis
								21				
								22			Grading to brown, orange, black, laminated	Collected soil sample from 21.8' to 22.2' bls - SVOC and SPLP analysis
								23			Clayey SAND; orange, pink, white, light brown, laminated; creosote odor; well sorted	
								24				Collected soil sample from 21' to 22' bls - residual saturation analysis
								25			Sandy CLAY; pink, white, brown laminated; stiff; medium plasticity	
								26				
								27			Grading no laminations; pinkish brown	
								28			Clayey SAND; light brown; dense; well sorted	
								29				
SB	4	5	5	100	-	-	-	30			Silty SAND; creosote saturation with sheen and odors from 30' to 30.5' bls; well sorted; medium grained	
								31			Grading to orangish brown; creosote odor; black staining from 31.5'-31.6' bls; dense to very dense; fine grained; moist	
								32				
								33				
								34			Sandy CLAY; orangish brown; creosote odor; stiff; medium plasticity	Collected soil samples from 36.5' to 37.5' and 37' to 38' bls - residual saturation analysis
SB	5	5	5	100	-	-	-	35			Silty SAND; orangish brown to yellowish brown; creosote odor; loose; moist	
								36			Grading to black; creosote saturation and strong odor; well sorted; with clay lenses 35'-37' bls; brown; soft	Collected soil sample from 38' to 39' bls - SVOC, SPLP, and sieve analysis
								37			Sandy CLAY; orangish brown; creosote odor; fine grained	
								38			Silty SAND; black; creosote saturation with strong odor; well sorted; medium grained	
								39			SAND; orangish brown; slight creosote odor; loose; well sorted; fine grained; with some silt	Boring terminated at 40' bls
								40				

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Well/Boring No. L83A

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	70'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6x7	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:57:23 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	4	4	100	-	-	-	0			Topsoil; black; organic	Boring cleared for utilities prior to drilling
								1			Silty SAND; black; well sorted; fine grained; moist; fill material	
								2				
								3				
SB	2	10	8	80	-	-	-	4				
								5				
								6				
								7				
								8			Grading wet	
								9				
								10				
								11				
								12			No recovery 12'-14' bls	
								13				
SB	3	6	6	100	-	-	-	14			Silty SAND; black; creosote odor; well sorted; fine grained	
								15			Grading to pink, brown, white laminated; black, oily creosote NAPL stringer at 15' bls; odor; subrounded to rounded; with some clay	
								16				
								17			Grading to brown and black; saturated with creosote NAPL; oily sheen; strong odor; well sorted; fine to medium grained Creosote NAPL zone from 16.75'-17.75' bls	
								18			Lens of pink, brown silty clay from 17.75'-18.25' bls Creosote NAPL zone from 18.25'-19' bls	
								19			Black creosote NAPL at 19.5' bls	
								20				

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Well/Boring No. L83A

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	70'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6x7	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:57:41 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	4	10	10	100	-	-	-	20			Silty SAND; brown; oily sheen; odor; saturated with creosote NAPL; well sorted; fine grained; rounded	
								21				
								22			Grading to black; visible creosote; strong odor; medium grained; saturated	
								23			Grading to black with orange laminations; strong odor; visible creosote; stringer at 23.75' bls; fine grained	
								24			Grading to light brown with pink and brown laminations; saturated with creosote; odor; medium grained; subangular	
								25			Grading to pink brown laminated; no visible creosote NAPL; slight odor; loose; well sorted; medium grained	
								26			Silty CLAY; pink, light brown, white laminated; medium stiff to stiff; low to medium plasticity; with some sand	
								27				
								28			Sandy CLAY; pink, brown; stiff; medium plasticity	
								29				
SB	5	10	10	100	-	-	-	30			Black creosote NAPL stringer at 29.5' bls	
								31			Silty SAND; brown; saturated with creosote; well sorted; medium grained; subangular	
								32				
								33			Sandy clay lens at 32.5'-33' bls; light brown to orange	
								34			Sandy CLAY; light orangish brown to light gray, mottled; creosote odor; stiff; plastic	
								35			Silty SAND; orangish brown; creosote staining and odor 35.5'-35.8' bls; dense; well sorted; medium grained	
								36				Clay layer from 38' to 39' bls comparable to the thicker confining unit seen throughout the site
								37			Clayey SAND; orangish tan; creosote odor; dense; medium grained	
								38			CLAY; very stiff; high plasticity; with some sand	Collected soil sample from 39.5' to 40' bls - SVOC and SPLP analysis
								39			Grading light brown, white, orange, gray; laminated; soft; with some silt	
								40				

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Well/Boring No. L83A

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	70'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6x7	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:57:56 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	6	10	10	100	-	-	-	40			SAND; reddish orange; loose; well sorted; fine grained	
								41			Silty SAND; light brown; loose; well sorted; very fine grained; with trace clay Grading to red	
								42			Grading to light brown; medium dense; well sorted; medium grained	Collected soil sample from 42' to 43' bls - SVOC and SPLP analysis
								43			Grading to reddish brown; loose; well sorted; medium grained; subangular	
								44			SAND; gray; well sorted; medium grained; subangular; with some silt	
								45			Clayey SAND: gray and orangish brown; well sorted; fine grained	
								46				
								47			Silty SAND; light brown; loose; well sorted; medium grained	Collected soil sample from 47' to 48' bls - SVOC and SPLP analysis
								48				
								49			Grading to orange, fine grained Grading to dark gray	
SB	7	10	0	0	-	-	-	50			No recovery 50'-60'	Collected soil sample from 49.5' to 50' bls - SVOC and SPLP analysis
								51			Likely heaving/saturated sands per driller	
								52				
								53				
								54				
								55				
								56				
								57				
								58				
								59				
								60				

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Well/Boring No. L83A

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	70'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473239.41 E 1993433.77 NC State Plane NAD83	237.2 NAVD88	12/13/15	12/13/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6x7	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:58:12 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	8	10	10	100	-	-	-	60			SAND; light gray; loose; well sorted; coarse grained; angular	
								61				Used flapper bit for better recovery
								62				
								63			Grading to medium to coarse grained; with some silt	
								64				
								65			Grading to fine grained; medium dense	
								66			Grading to dark gray; loose; coarse grained	
								67			Grading to light gray; medium dense; fine grained	
								68				
								69				Collected soil sample from 69' to 70' bls - SVOC and SPLP analysis
								70				Boring terminated at 70' bls
								71				
								72				
								73				
								74				
								75				
								76				
								77				
								78				
								79				
								80				

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Well/Boring No. L86

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	31'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473417.03 E 1993318.73 NC State Plane NAD83	236.1 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:58:27 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	6	60	-	-	-	0			SAND; black; moist; trace organics; fill material	Boring cleared for utilities prior to drilling
								1				
								2			Grading to yellow brown	
								3				
								4				
								5				Collected soil sample from 5' to 6' bls - SVOC and SPLP analysis
								6			No recovery 6'-14' bls	
								7				
								8				
								9				
SB	2	10	6	60	-	-	-	10				
								11				
								12				
								13				
								14			Sandy CLAY; reddish brown; mottled; medium stiff; low plasticity; moist	
								15				
								16				
								17				
								18			Silty SAND; light brown; fine grained	Collected soil sample from 18.9' to 19.8' bls - SVOC and SPLP analysis
								19			SAND; black to brown; creosote sheen and odor; loose; medium grained	
								20				

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Well/Boring No. L86

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	31'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473417.03 E 1993318.73 NC State Plane NAD83	236.1 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:58:46 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	11	11	100	-	-	-	20			Sandy CLAY; reddish brown; 1" thick NAPL stringer at 20' bls; low to medium plasticity; moist	
								21				
								22				
								23				
								24				
								25			SAND; reddish brown; visible creosote stringers; strong odor; moist	
								26			Silty CLAY; yellowish brown; stiff to very stiff; medium to high plasticity; moist	
								27				
								28			Silty SAND: yellowish brown; strong odor; visible creosote ~2" thick NAPL stringer at 28.2' bls; fine grained Trace gray clay; medium stiff; low plasticity	Collected soil sample from 29.5' to 30.3' bls - SVOC and SPLP analysis
								29				
								30				
								31				Boring terminated at 31' bls
								32				
								33				
								34				
								35				
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L89

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - West ROW Reilly Road	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473509.31 E 1993440.31 NC State Plane NAD83	237.3 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler

DPT or Sonic SAMPLING												
SAMPL TYPE	SAMPLE NUMBER	RUN LENGTH	RUN RECOVERY	% Recovery				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	5	50	-	-	-	0			Topsoil; organic	Boring cleared for utilities prior to drilling
								1			Silty SAND; brown; well sorted; fine grained; moist	
								2				
								3				
								4			Grading to light brown; with some clay	
								5			Grading to red	
								6			No recovery from 5'-10' bls	
								7				
								8				
								9				
SB	2	10	10	100	-	-	-	10			Silty SAND; brown; well sorted; fine grained; moist	
								11				
								12			Grading with some clay	
								13			Clayey SAND; brown to red; well sorted; moist; with some silt	Collected soil sample from 12.5' to 13.5' bls - SVOC and SPLP analysis
								14			Grading to brown and grayish red; clay content increases with depth	
								15				
								16				Collected soil sample from 15.5' to 16.5' bls - SVOC and SPLP analysis
								17				
								18				
								19			Sandy CLAY; gray and red laminated; medium stiff; medium plasticity	Collected soil sample from 19.5' to 20.5' bls - SVOC and SPLP analysis
								20				

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Well/Boring No. L89

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - West ROW Reilly Road	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473509.31 E 1993440.31 NC State Plane NAD83	237.3 NAVD88	12/12/15	12/12/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler

DPT or Sonic SAMPLING												
SAMPL TYPE	SAMPLE NUMBER	RUN LENGTH	RUN RECOVERY	% Recovery				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
								20				
SB	3	10	8	80	-	-	-				Silty SAND; brown and pink; well sorted; moist; with some clay	
								21			Creosote odor 21' to 22' bls	
								22			Grading to brown and gray laminated	
								23				
								24				
								25			Sandy CLAY; gray; medium stiff; medium plasticity	
								26				
								27				
								28			No recovery 28'-30' bls	
								29				
SB	4	8	8	100	-	-	-	30			Clayey SAND; pink and gray; low plasticity; well sorted	
								31				
								32			SAND; brown; fine grained; well sorted; with some clay	
								33			CLAY; gray; very stiff; high plasticity	
								34				
								35				
								36				
								37				
								38				Boring terminated at 38' bls
								39				
								40				

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Well/Boring No. L94

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	pine needles/soil; south region	4.5'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 472766.30 E 1993317.77 NC State Plane NAD83	235.5 NAVD88	12/9/15	12/9/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 13:59:57 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
HA	1	4.5	4.5	100	-	-	-	0			Sandy SILT; dark grayish brown; soft; moist; fill material	Boring hand augered; utilities avoided
								1				
								2			Silty CLAY; dark grayish brown; soft; wet	Encountered water table at 2' bls
								3				Collected soil sample from 3.5' to 4.5' bls - SVOC and SPLP analysis
								4				
								5				Boring terminated at 4.5' bls
								6				
								7				
								8				
								9				
								10				
								11				
								12				
								13				
								14				
								15				
								16				
								17				
								18				
								19				
								20				

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Well/Boring No. L95

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - West ROW Reilly Road	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473441.85 E 1993303.06 NC State Plane NAD83	239.6 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:00:15 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	4	40	-	-	-	0			SAND; brown; very loose; well sorted; moist; organics in top 0.5'	Boring cleared for utilities prior to drilling
								1				
								2				
								3				
								4			No recovery 4'-10' bls	
								5				
								6				
								7				
								8				
								9				
SB	2	10	5	50	-	-	-	10			SAND; light brown; well sorted	
								11				
								12			Silty CLAY; brown to red; low plasticity to non-plastic; trace gravel in bottom 4"	
								13				
								14				
								15			No recovery 15'-20' bls	
								16				
								17				
								18				
								19				
								20				

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Well/Boring No. L95

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - West ROW Reilly Road	35'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473441.85 E 1993303.06 NC State Plane NAD83	239.6 NAVD88	12/10/15	12/10/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:00:31 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Silty CLAY; mottled red/brown/gray; very stiff; high plasticity; moist	
								21				
								22				
								23				
								24				
								25				
								26				
								27				Collected soil sample from 29.5' to 30.5' bls - SVOC and SPLP analysis
								28				
								29				
SB	4	5	5	100	-	-	-	30				Collected soil sample from 30.5' to 31.5' bls - SVOC and SPLP analysis
								31				
								32				
								33				
								34			Trace gray sand from 34'-35' bls; fine grained	
								35				Boring terminated at 35' bls
								36				
								37				
								38				
								39				
								40				

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Well/Boring No. L97

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473248.5 E 1993405.04 NC State Plane NAD83	236.91 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:00:47 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	7	70	-	-	-	0			Topsoil; organic	
								1			SAND; black to brown; well sorted; fine grained; fill material	Boring cleared for utilities prior to drilling
								2				
								3				
								4				
								5				
								6				
								7			No recovery 7'-10' bls	
								8				
								9				
SB	2	10	8.5	85	-	-	-	10			SAND; black to brown; well sorted; fine grained; fill material	
								11				
								12				
								13			Clayey SAND; yellowish brown; laminated; <1" thick creosote stain and strong odor @14' bls; fine to medium grained	
								14				
								15			SAND; brownish red; well sorted; fine to medium grained	
								16			Creosote staining and strong odor 16' to 17' bls	
								17				
								18			Grading to SAND with some silt	
								19			No recovery 18.5'-20' bls	
								20				

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Well/Boring No. L97

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	40'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473248.5 E 1993405.04 NC State Plane NAD83	236.91 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
R. Warrier, H. Yost	A. Callaway	C. Butler butlerc@bv.com Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:01:11 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	9.5	95	-	-	-	20			SAND; yellowish brown; creosote staining 20'-21' bls; strong odor; well sorted; medium grained	Collected soil sample from 20.5' to 21.5' bls - SVOC, SPLP and residual saturation analysis
								21				
								22				
								23				
								24				
								25				
								26			Silty CLAY; pink to red; laminated; medium stiff to soft; low plasticity to non-plastic; fine grained	Collected soil sample from 26.5' to 27.5' bls - residual saturation analysis
								27			SAND; yellowish brown with red mottling; creosote staining and strong odor 27'-27.5' bls and 27.5'-28' bls; well sorted	Collected soil sample from 27.5' to 28.5' bls - SVOC, SPLP and residual saturation analysis
								28				
								29			Creosote saturation 28'-29' bls; black	Collected soil sample for analysis from 28' to 29' bls for NAPL mobility & grain size analysis
SB	4	10	8	80	-	-	-	30			Clayey SAND; brown with gray and pink mottling; fine to medium grained	
								31				
								32				
								33				
								34			Silty SAND; brown to black; visible NAPL sheen; strong odor; fine grained; with trace clay	Collected soil sample from 34.5' to 35.5' bls - SVOC, SPLP, and residual saturation analysis
								35				
								36			SILT; yellowish brown with red, yellow, brown laminations; stiff; with trace clay	
								37				
								38			No recovery 38'-40' bls	
								39				Boring terminated at 40' bls
								40				

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Well/Boring No. L101

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473169.4 E 1993431.5 NC State Plane NAD83	237.62 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:01:30 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	1	10	4	40	-	-	-	0			Topsoil; organic	
								1			Silty SAND; black; well sorted; fine grained; moist; fill material	Boring cleared for utilities prior to drilling
								2				
								3				
								4			No recovery 4'-10' bls	
								5				
								6				
								7				
								8				
								9				
SB	2	10	10	100	-	-	-	10			Silty SAND: black; creosote odor; well sorted; fine to medium grained; moist; fill material	
								11				
								12			Silty CLAY; orangish brown with orange and gray laminations; creosote odor; medium stiff; medium plasticity; moist	
								13			Silty SAND; black; creosote odor; well sorted; fine grained	
								14			Clayey SAND; pink with gray and brown laminations; creosote odor; medium grained	
								15				
								16				
								17				
								18				Collected soil sample from 17.5' to 18.5' bls - residual saturation analysis
								19			Silty SAND; brown and pink; creosote odor throughout; well sorted; medium grained; moist	
								20				

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Well/Boring No. L101

LOG OF BORING

CLIENT	PROJECT	PROJECT NO.
USEPA Region 4	Cape Fear	049066

PROJECT LOCATION	SURFACE CONDITIONS	TOTAL DEPTH (FEET BGS)
Fayetteville, NC	grass - inside perimeter fence	38'

COORDINATES (DATUM)	GROUND ELEV. (FEET AMSL)	START DATE	END DATE
N 473169.4 E 1993431.5 NC State Plane NAD83	237.62 NAVD88	12/11/15	12/11/15

DRILLING CONTRACTOR	DRILLING METHOD	DRILL RIG DESIGNATION	DRILLER
Cascade	Sonic 4x6	TS 150 CC	A. Gloege

INSPECTOR	CHECKED BY	APPROVED BY
M. Jenny, H. Yost	A. Callaway	C. Butler butlerc@bv.com

Digitally signed by butlerc@bv.com DN: cn=butlerc@bv.com Date: 2016.03.08 14:01:50 -05'00'

Sonic (4x6 samples) (3x5 rock coring)

SAMPLE TYPE	RUN NUMBER	RUN LENGTH	RUN RECOVERY	% RECOVERY				DEPTH (FEET)	PID (ppm)	LITHOLOGY	CLASSIFICATION OF MATERIALS	Remarks
SB	3	10	10	100	-	-	-	20			Silty SAND; brown; well sorted; medium to fine grained	
								21			Creosote staining at 21'-21.5' bls (black-gray)	
								22				
								23			Clayey SAND; dark red and light red laminations (23'-24' bls); creosote odor; moist; with some silt	
								24				
								25			Silty SAND; light brown; creosote odor; well sorted; medium grained; moist	
								26				
								27			Grading to light red and dark red laminations; loose	
								28				
								29			Grading light brown	Collected soil sample from 28.5' to 29.5' bls - SVOC, SPLP and residual saturation analysis
SB	4	8	8	100	-	-	-	30			Grading to brown-gray; strong creosote odor; fine to medium grained	
								31				
								32				
								33				
								34			Clayey SAND; light brown; creosote staining and odor from 35' to 35.5' bls; dense; firm	Collected soil sample from 33.5' to 34' bls - SVOC, SPLP and residual saturation analysis
								35				
								36			CLAY; light gray/white with light brown and gray laminations; very stiff; high plasticity	
								37				
								38				Boring terminated at 38' bls
								39				
								40				

Attachment D. Sonic Photo Logs

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PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L19**
TarGOST Date: 10/19/09

TarGOST bore L19 advanced in 2009, whereas sonic bore L19 advanced in 2015.

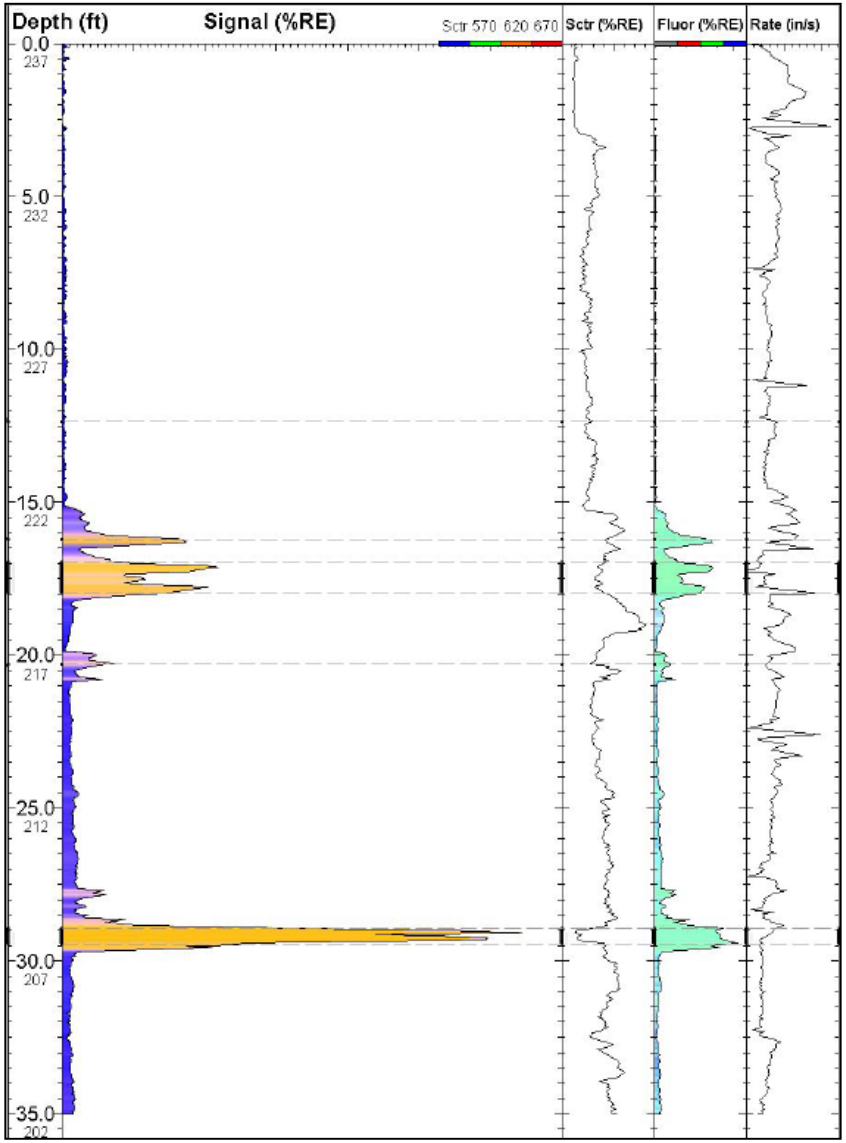
Plate L19a: ~16.5 to 18.5 ft bls

Plate L19b: ~22.5 to 26 ft bls

Plate L19c: ~25.5 to 27.5 ft bls

Plate L19d: ~27 to 30 ft bls
& ~30 to 33 ft bls

Plate L19c: ~35.5 to 39 ft bls



SVOC including SPLP
31.5 to 32.0 ft bls

Max TG signal = 322% RE @ 29 ft.

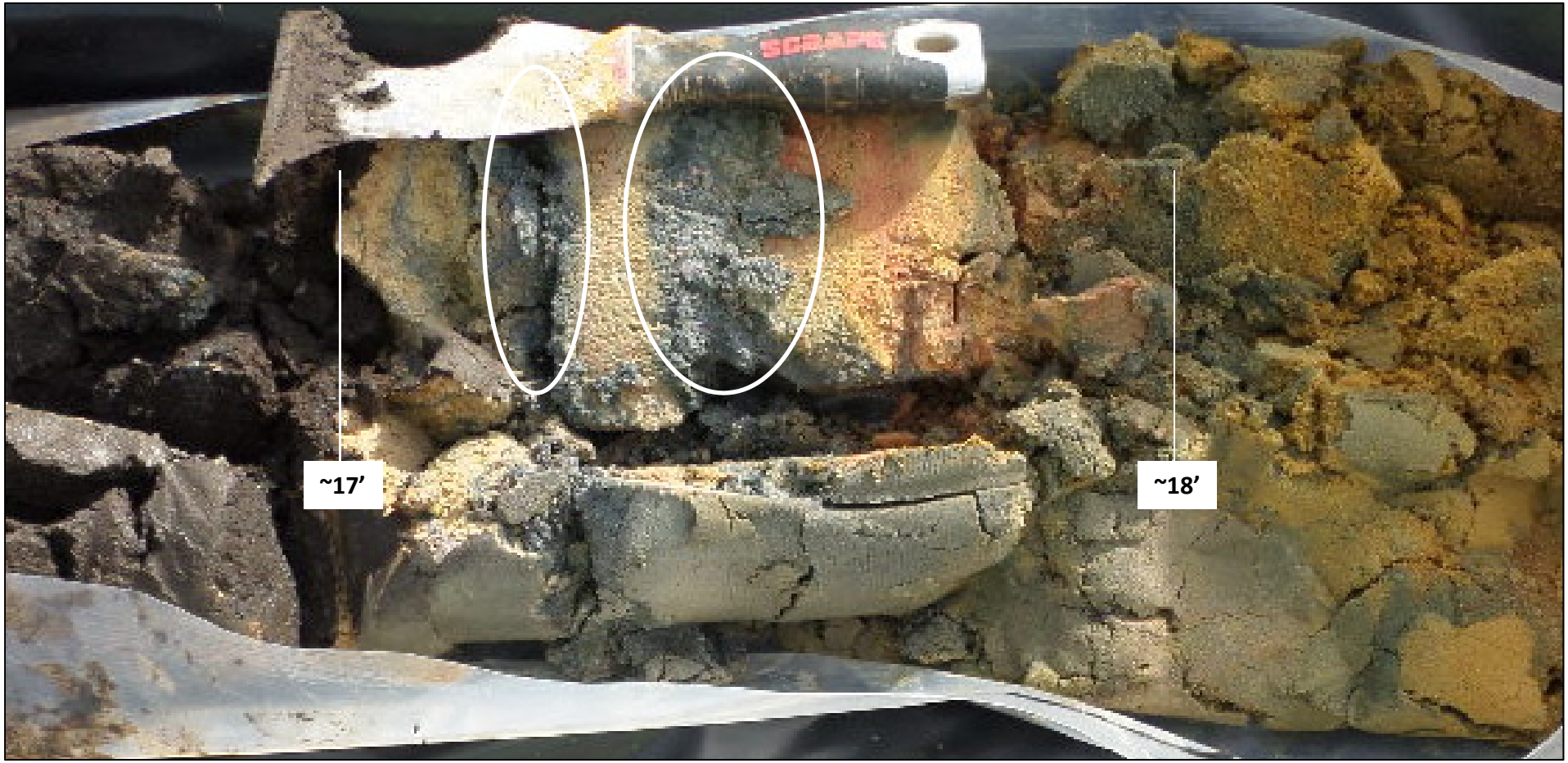
Notes: L19 TarGOST plot from 2009, with photolog intervals of the following plates listed above (left), and the sampling interval (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L19a**
Photo Date: 12/13/15



Notes: L19 core run from 10 to 20 ft bls. Photo is near bottom of run; paint scraper for scale.
From 17 to 18 ft, yellowish tan clayey fine grained sand includes black creosote staining (oxidized gray in the photo) along two medium grained sand layers (circled). Overlying dark brown to black silty fine grained sand represents incinerated soil deposited in the late 1990s. Below 18 ft, silty fine to medium grained sand exists. As logged in the field, soil with creosote staining did not indicate evidence of NAPL (e.g., no oily feel or residue on gloves), although had a strong creosote odor in addition to dark gray to black discoloration. However, the TarGOST log on the previous plate indicates NAPL is present in this interval. File photo number SAM_1028

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L19b
Photo Date: 12/13/15

Notes: L19 core run from 20 to 30 ft bls. Photo is middle of run; razor knife and paint scraper for scale.
From 20 to 23 ft, brown to yellowish tan silty sand is saturated with creosote NAPL, with interfingering black staining from 22.5 to 23 ft (depicted above). The TarGOST log did not recognize this interval, possibly because (a) the sonic boring was not in the exact location as the 2009 TarGOST boring, or (b) DNAPL migrated through this region since 2009 in response to nearby recovery at the MPE wells.
Starting at 23 ft, clayey medium grained sand with color laminations include black creosote discoloration (i.e., staining) along laminations from ~24 to 25 ft (circled). Starting at 25 ft, underlying zone is loose silty sand, which also exhibits a dark band of creosote staining just above ~26 ft (white rectangle).

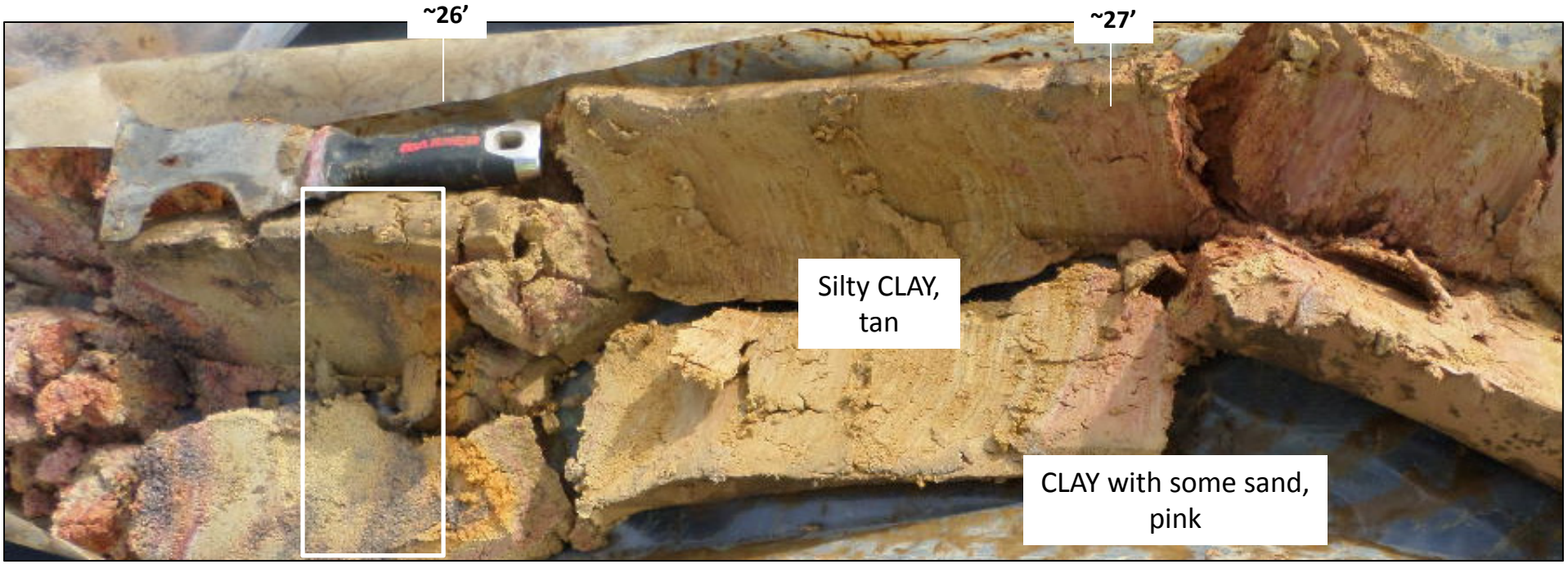
File photo number SAM_1031

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L19c
Photo Date: 12/13/15



Notes: L19 core run from 20 to 30 ft bls. Photo is middle of run; paint scraper for scale.
Overlap with previous plate displaying the same dark band of creosote staining within yellowish tan silty sand at just above 26 ft (white rectangle). The underlying tan soft low plasticity silty clay exhibits a creosote odor but lacks any visible staining. As shown, the tan silty clay makes contact with a pink clay with some sand void of observable odors.

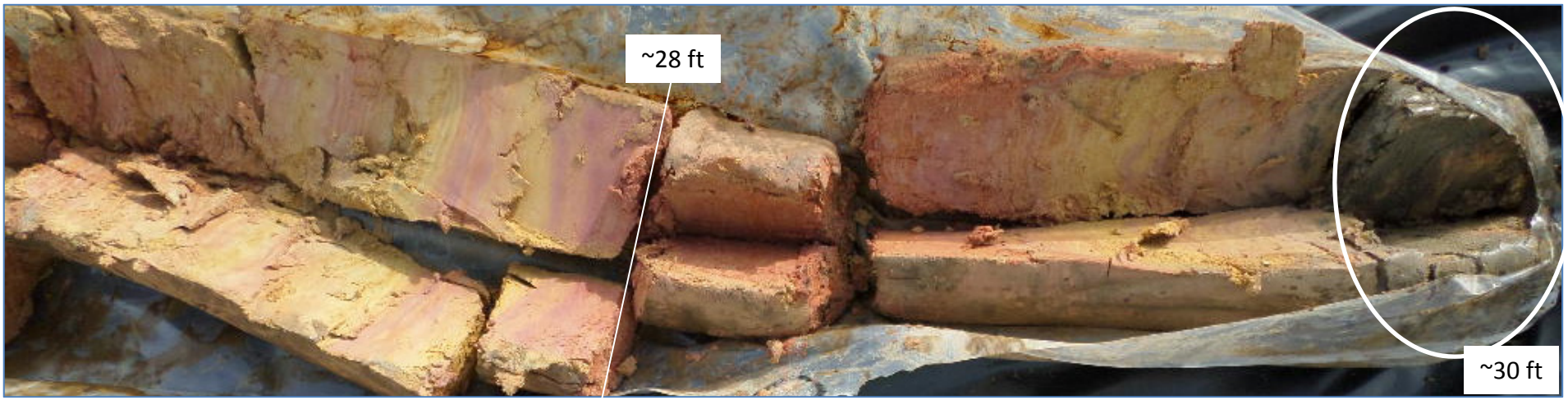
File photo number SAM_1032

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L19d**
Photo Date: 12/13/15



Notes: L19 core run from 20 to 30 ft bls. Photo is bottom of run.
Un-impacted clay up to ~28 ft and sandy clay up to ~29.5 ft . Silty very fine grained sand exists at the bottom of the run from ~29.5 to 30 ft (circled), which is heavily stained by creosote, although without observable NAPL (i.e., no oily feel or residue on gloves). However, the TarGOST log indicates NAPL is present in this interval.

Notes: L19 core run from 30 to 40 ft bls. Photo is top of run.
From 30 to 33' well sorted silty medium grained sand with a creosote sheen/NAPL (visible in the field) and odor.
Inserted box displays Laboratory results in soil posted for total and SPLP naphthalene.

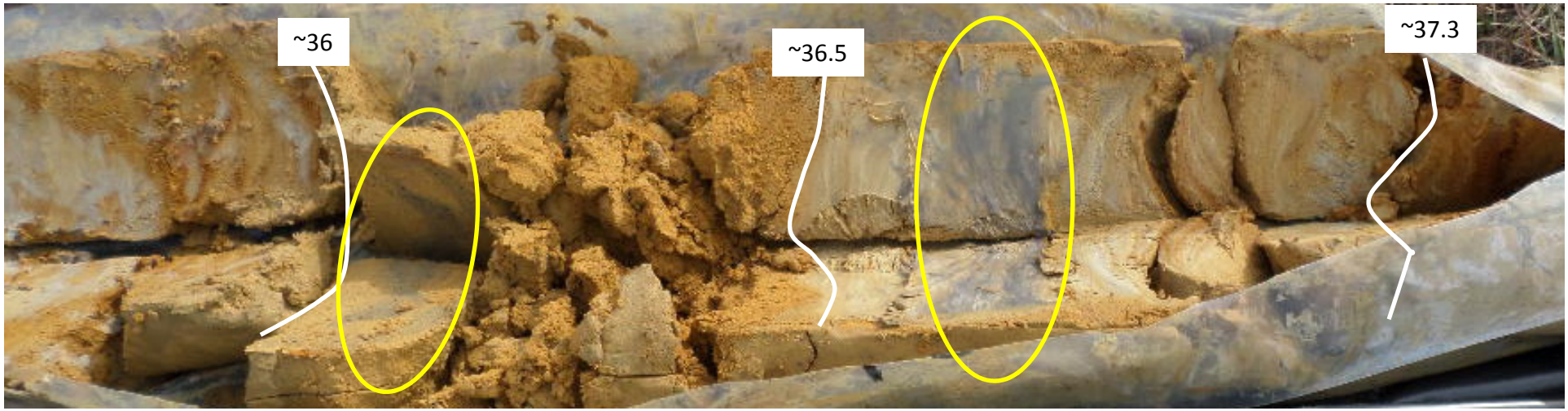
File photo numbers SAM_1033 and 1034

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L19e**
Photo Date: 12/13/15



Notes: L19 core run from 30 to 40 ft bls. Photo is bottom of run. No recovery from 38 to 40 ft.
Sandy clay up to ~36 ft followed by fine grained sand with some silt (~36 to 36.5 ft).
Firm plastic sandy clay exists from ~36.5 to37.3 ft, followed by very fine grained sand with silt to the bottom of the run.
Gray discoloration occurs in the fine grained sand layer and the sandy clay (yellow circles), although both locations lacked odors or sheens. Therefore, the above segment of the run was considered void of NAPL.

File photo numbers SAM_1037

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

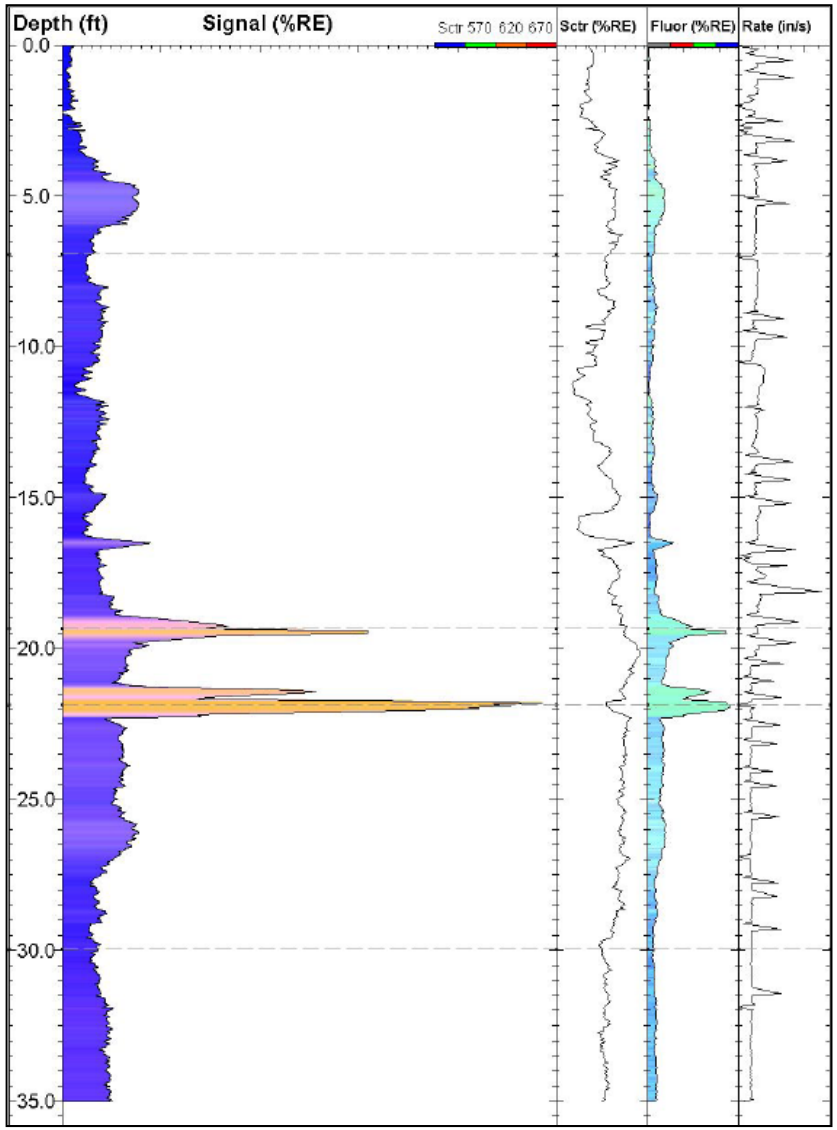
Plate Number: L57
TarGOST Date: 10/26/09

TarGOST bore L57 advanced in 2009, whereas sonic bore advanced in 2015.

Plate L57a: ~14 to 17 ft bls

Plate L57b: ~20 to 25 ft bls

Plate L57a: ~30 to 33.5 ft bls



SVOC including SPLP
16.5 to 17.0 ft bls

SVOC including SPLP
21.5 to 22.5 ft bls

SVOC including SPLP
30.5 to 31.5 ft bls

Max TG signal = 98% RE @ 22 ft.

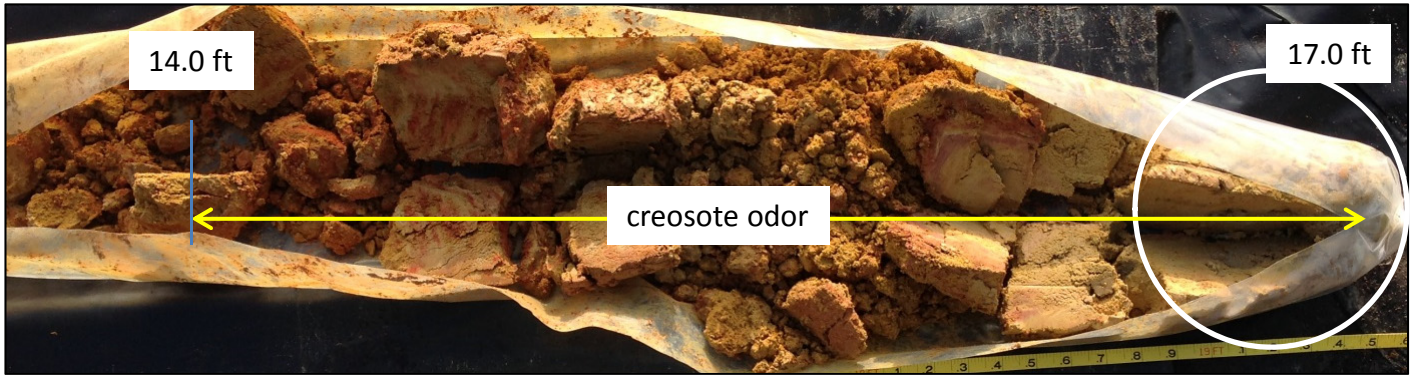
Notes: L57 TarGOST plot from 2009, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

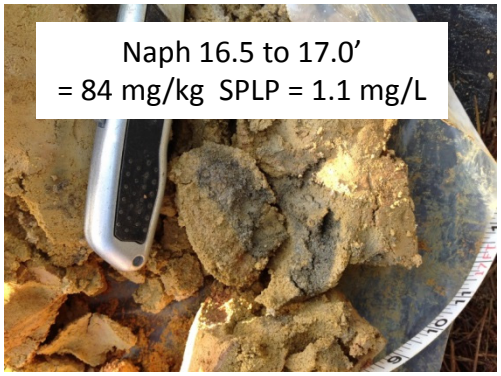
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L57a**
Photo Date: 12/12/15





Notes: L57 core run from 10 to 20 ft bls. Photos are from bottom of run; no recovery from 17 to 20 ft. Razor knife in right photo for scale. Strong creosote odors were noted from ~14 to 16.5 ft in clayey sand, followed by creosote staining from ~16.5 to 17 ft in sand with some clay (circled and enlarged in right photo). Naphthalene results from ~16.5 to 17 ft posted.
The lithology from 17 to 20 ft is unknown due to a lack of recovery.

Notes: L57 core run from 30 to 38 ft bls. Photo is top of run. Disseminated creosote NAPL from ~30 to 31.5 ft with an oily sheen and strong odor in sand discolored gray. The top one-foot of the impacted zone is coarse grained sand followed by silty fine grained sand to 31.5 ft. The underlying soil is dense clayey sand (31.5 to 33 ft). The TarGOST log did not recognize this interval, possibly because (a) the 2015 sonic boring was not in the exact location as the 2009 TarGOST boring, or (b) DNAPL migrated/dissipated through this region since 2009.

File photo numbers IMG_0704, 0706, and 0954

PHOTOGRAPHIC RECORD

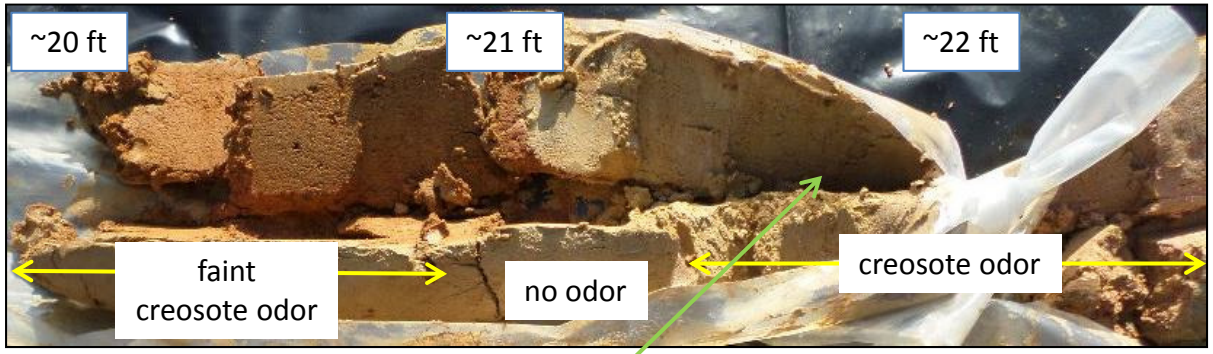
Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L57b**
Photo Date: 12/12/15

20 ft

30 ft



Naphthalene 21.5 to 22' = 0.450 mg/kg
SPLP = 1.8 mg/L

Residual Saturation 21.5 to 22.5':
Pore fluid saturation = 1.8% DNAPL
Pore fluid saturation = 76.5% water

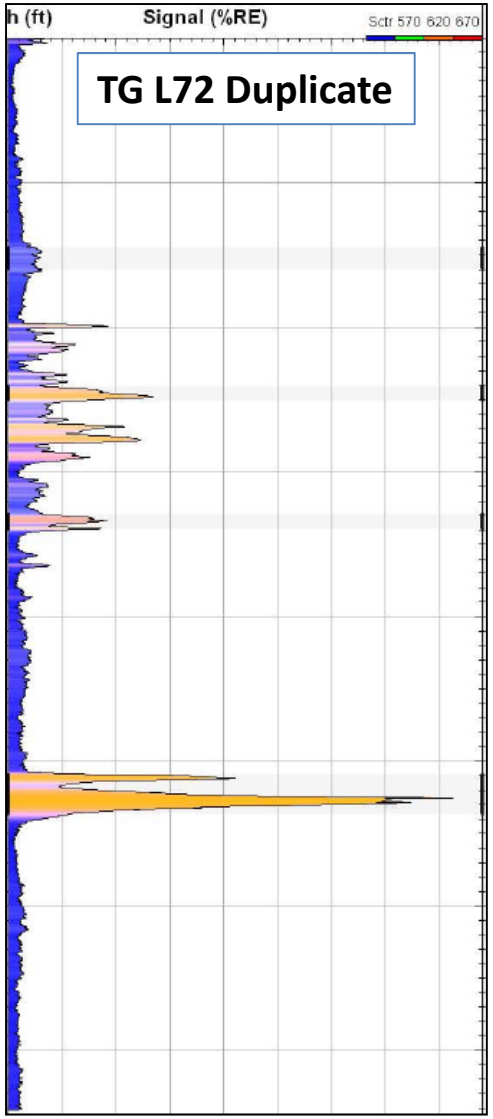
Notes: L57 core run from 20 to 30 ft bls.
Photos along top illustrate the three sonic core bags that included the complete 20 to 30 ft run.
Two photos in middle illustrate enlarged 20 to 25 ft run. Clayey sand from 20 to 21 ft, silty sand from 21 to 24 ft, and clayey sand from 24 to 25 ft. Creosote odor present from 20 to 21 ft, and from 21.5 to 24 ft. DNAPL was indicated from a sheen in the silty sand from 22 to 23 ft. Sample collected for SVOC above the sheen from 21.5 to 22 ft, and sample for residual saturation included the sheen from 21.5 to 22.5 ft. Results posted above for naphthalene and residual saturation.

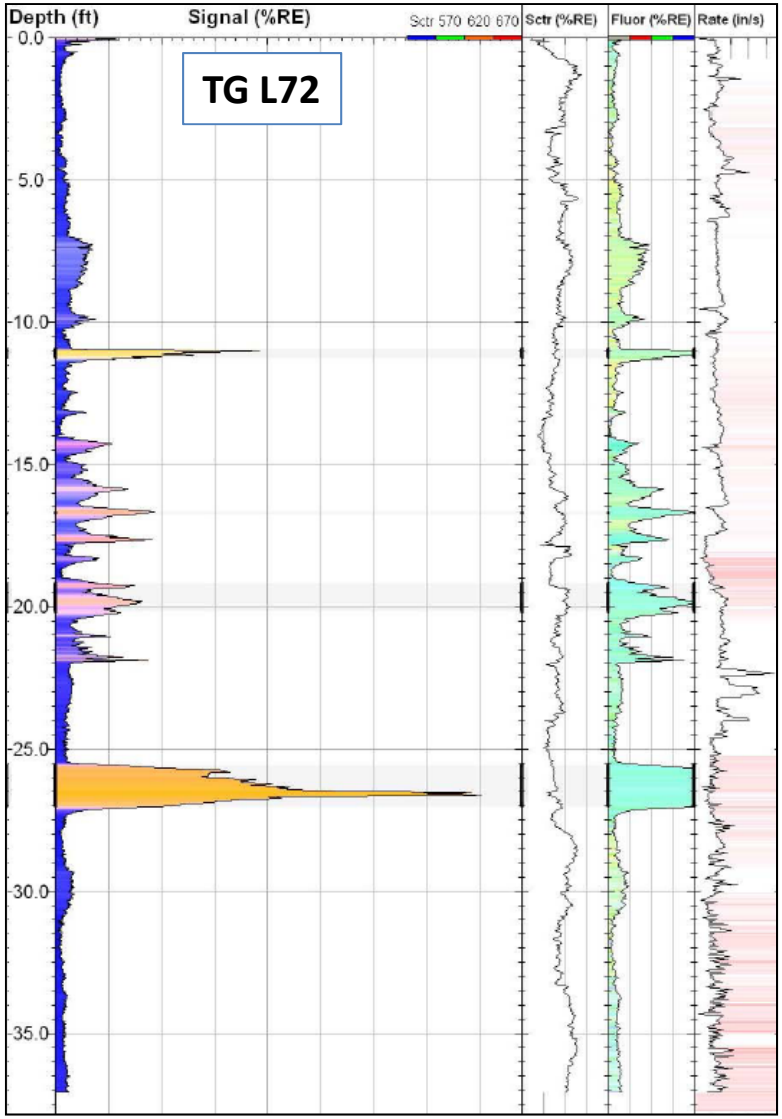
File photo numbers IMG_0951, 0952, and 0953

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4
Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)
Plate Number: L72
TarGOST Date: 12/09/15

Plate L72a:
~26 to 28.5 ft bls





SVOC w SPLP
12 to 12.5 ft bls

SVOC w SPLP
13.5 to 14 ft bls

SVOC w SPLP
15.5 to 16 ft bls

SVOC w SPLP
19 to 20 ft bls

SVOC w SPLP &
NAPL Mobility
26 to 27 ft bls

Max TG signal =
202% RE @ 26.6 ft.
Dup (butterfly) =
207% RE @ 26.3 ft.

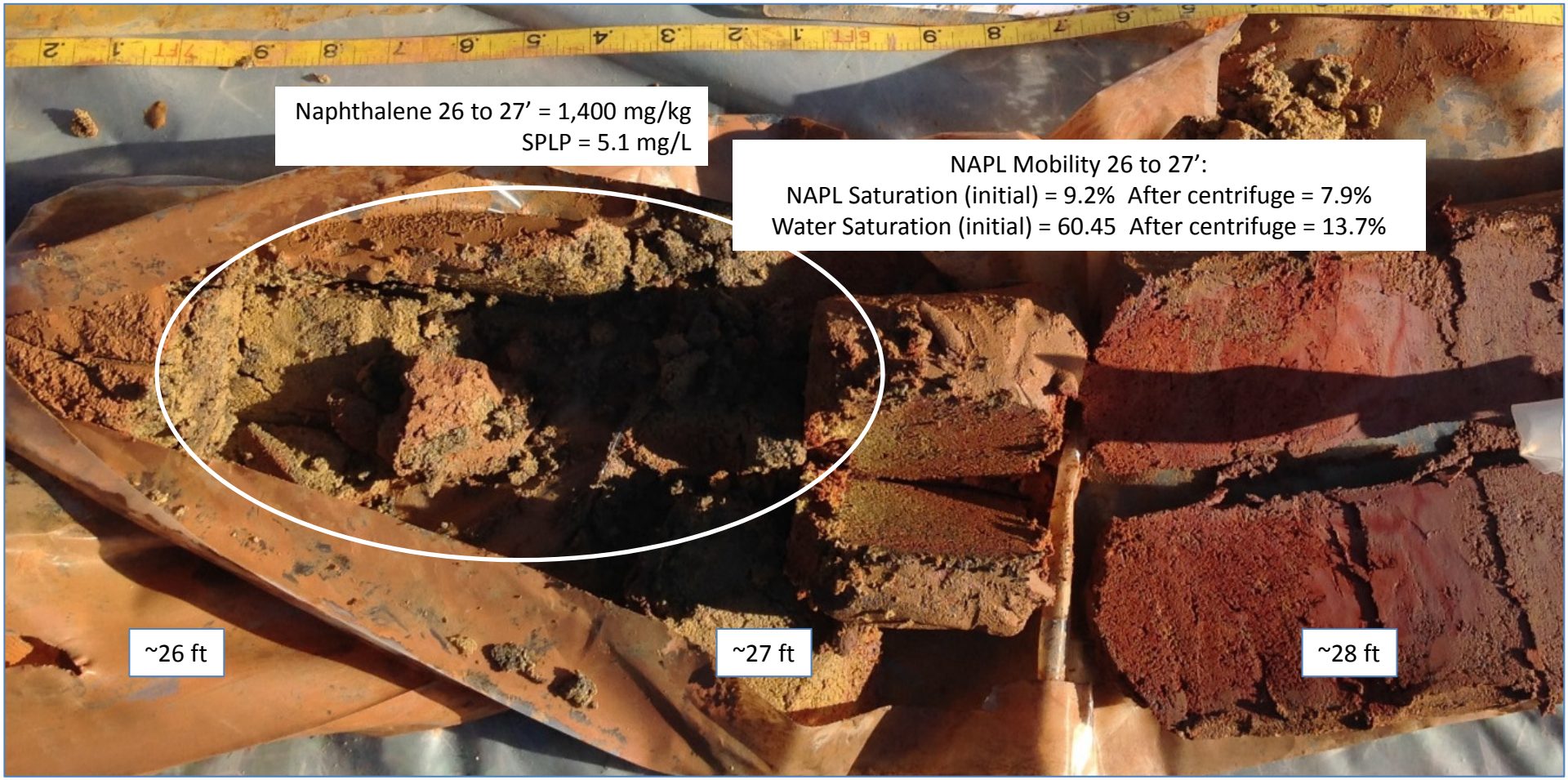
Notes: L72 TarGOST plot with duplicate from 2015, with photolog intervals of the following plates listed (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L72a
Photo Date: 12/10/15



Notes: L72 core run from 20 to 30 ft bls. Photo is middle of run.
The location of L27 is on the west side of the railroad tracks along the east side/ROW of Reilly Road. The creosote zone from 26' to 27' bls exhibited a NAPL sheen and strong odor. This interval consists of brown sand sandwiched between silty clay layers above and below. The DNAPL in the sand layer yielded the one of the highest TarGOST response out of all 2015 TarGOST borings (zones from L76 and L103 exceeded 200% RE). One of the two NAPL Mobility results analyzed at PTS lab is also posted above.

File photo numbers IMG_0617

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

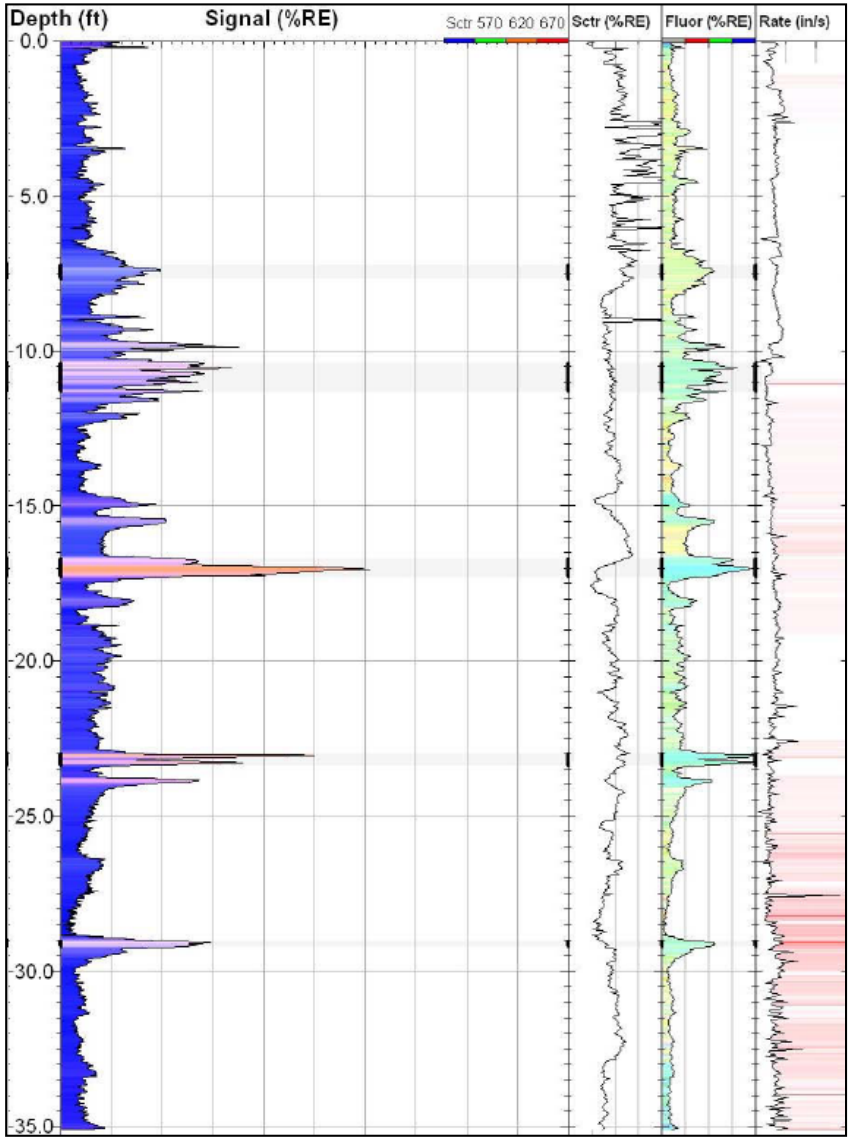
Plate Number: **L76**
TarGOST Date: 12/08/15

TarGOST bore L76 along fenceline, whereas sonic bore L76 advanced 21 ft SE and 9 ft SSW of TarGOST L76 because of overhead and underground utilities.

Plate L76a: ~15.2 to 17.2 ft bls

Plate L76b: ~16.5 to 18.5 ft bls

Plate L76c: ~35 to 38 ft bls



SVOC including SPLP
16.7 to 17.3 ft bls

SVOC including SPLP
33 to 34 ft bls
Max TG signal = 61% RE @ 17 ft.

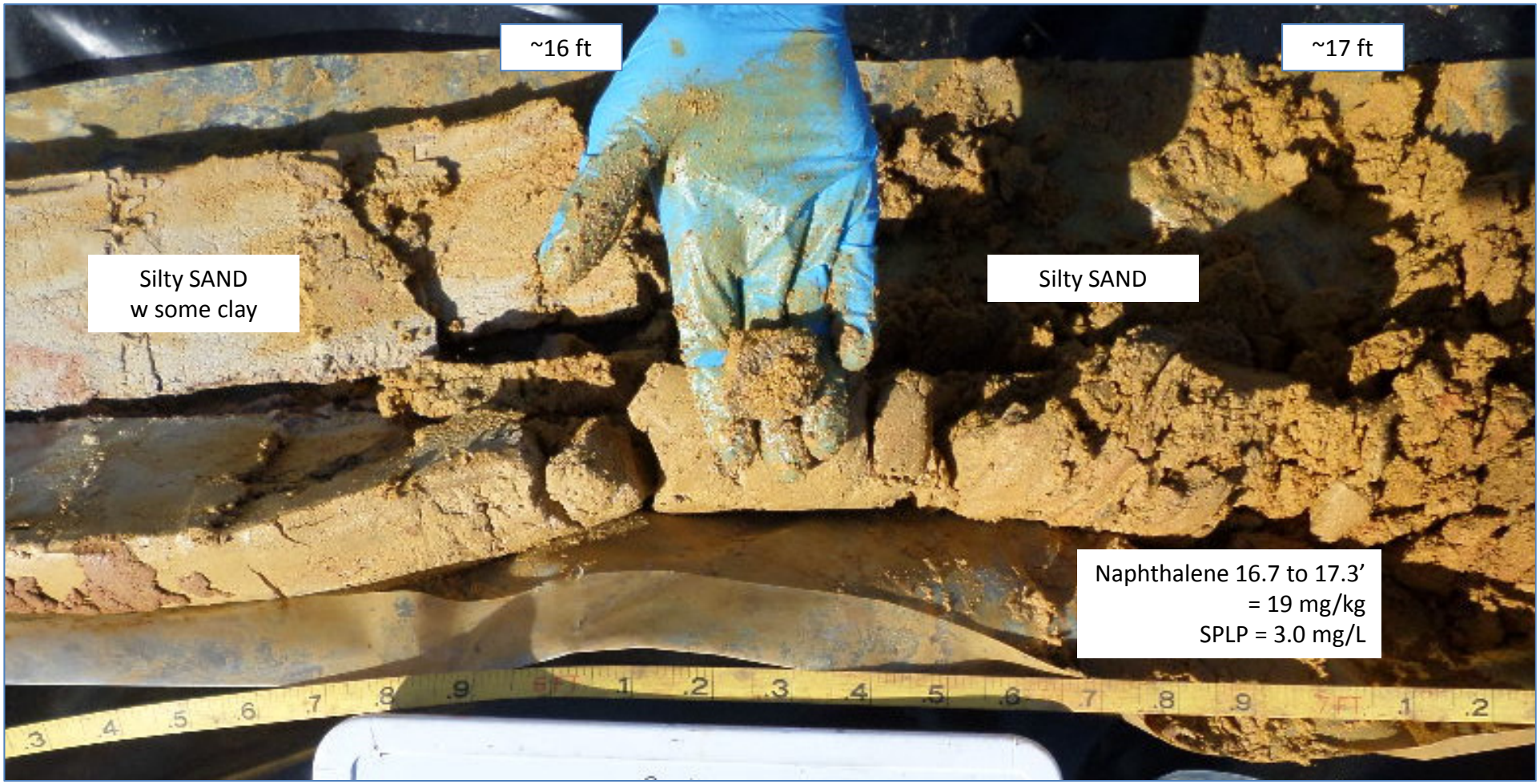
Notes: L76 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L76a**
Photo Date: 12/12/15



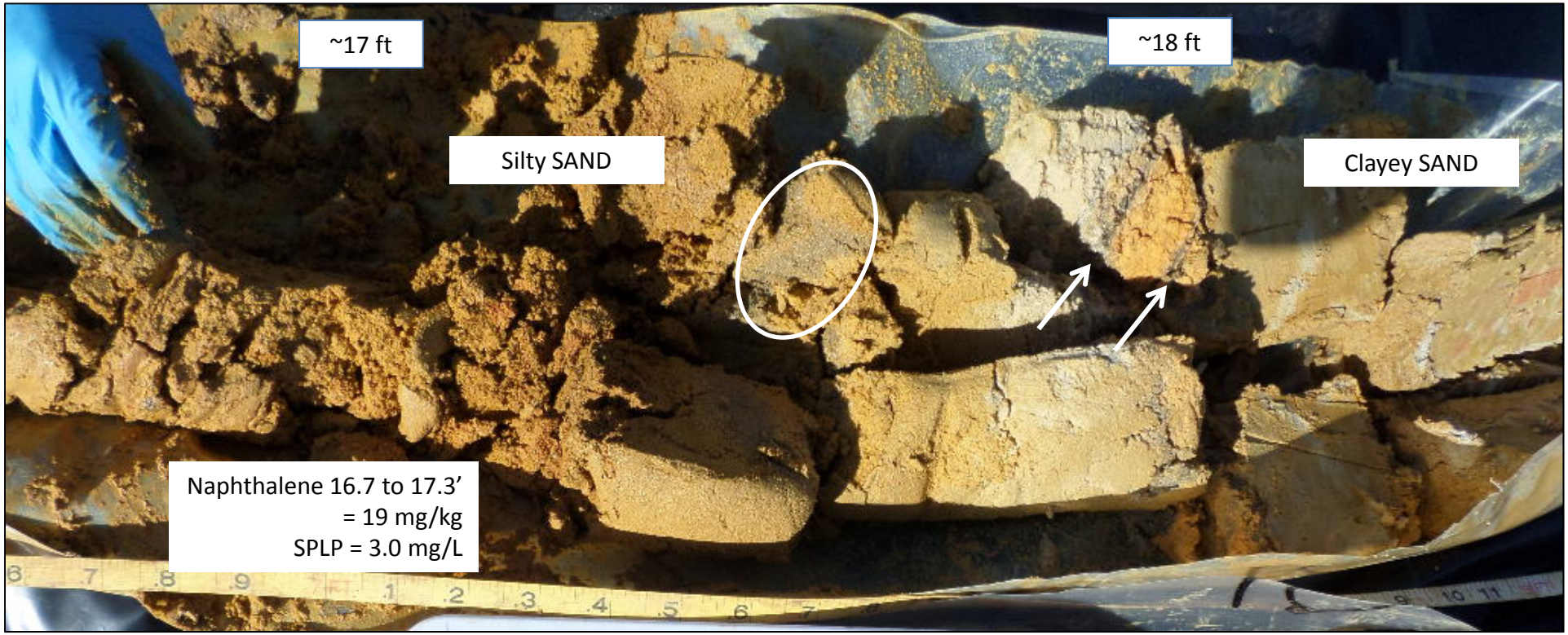
Notes: L76 core run from 10 to 20 ft bls. Photo is middle of run.
Oily NAPL sheen with a band of creosote (dark gray) within the clump of soil in the glove from ~16.5 ft. The lower half of the glove also exhibits a NAPL sheen. The core from ~11 to 18 ft was logged as silty sand, with the section from ~11 to 16.5 ft containing some clay. The portion from ~16.5 to 18 ft was saturated with creosote NAPL. Naphthalene result posted above. File photo number SAM_0957

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L76b**
Photo Date: 12/12/15



Notes: L76 core run from 10 to 20 ft bls. Photo is towards bottom of run.
Overlap with previous plate. The core from ~16.5 to 18 was saturated with NAPL along stringers throughout. The circled region and two arrows exhibit stringers / thin layers of NAPL manifest by dark bands. The NAPL stringers are located within silty sand from ~16.5 to 18 ft.
Naphthalene results posted above (same as previous plate).

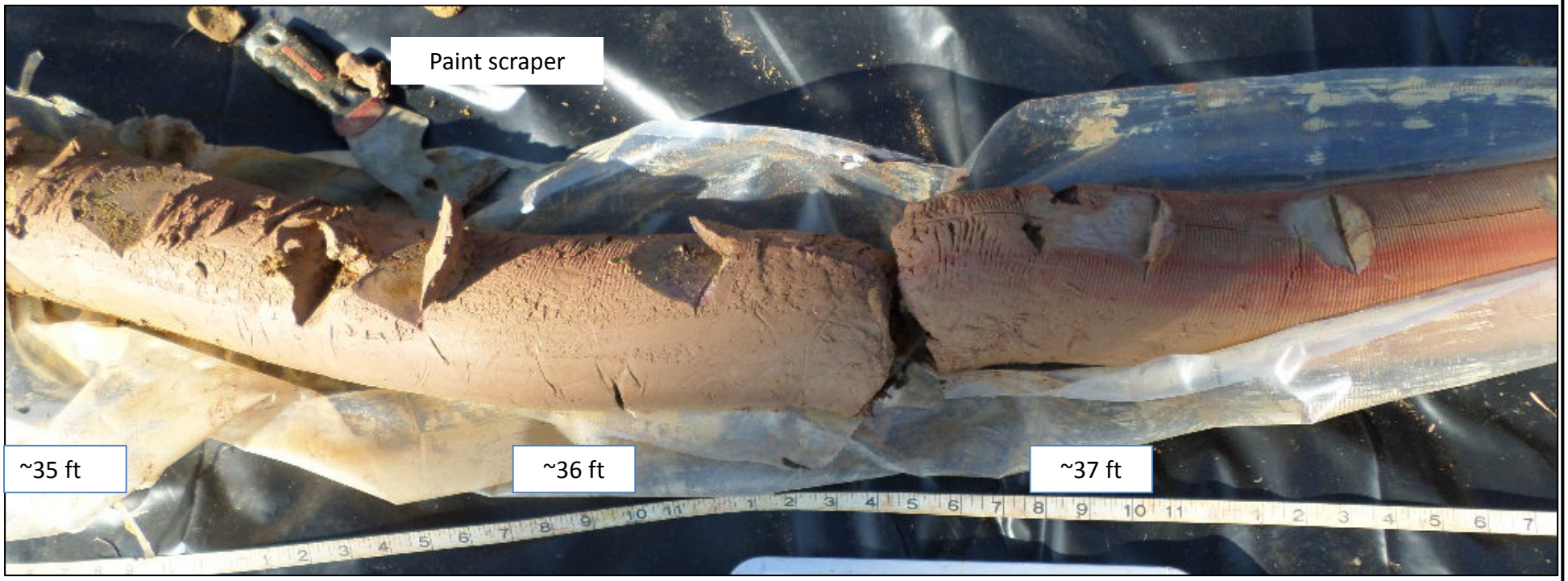
File photo number SAM_0958

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L76c
Photo Date: 12/12/15



Notes: L76 core run from 30 to 38 ft bls. Photo shows lower portion of core. Paint scraper for scale.
Clay semi-confining marker bed located from 35 to at least 38 ft (total boring depth) that underlies much of the site. The clay has a firm/medium stiff consistency with high plasticity. The stiff nature of the clay is indicated above from the cuts along the surface made by the paint scraper.

File photo number SAM_0974

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

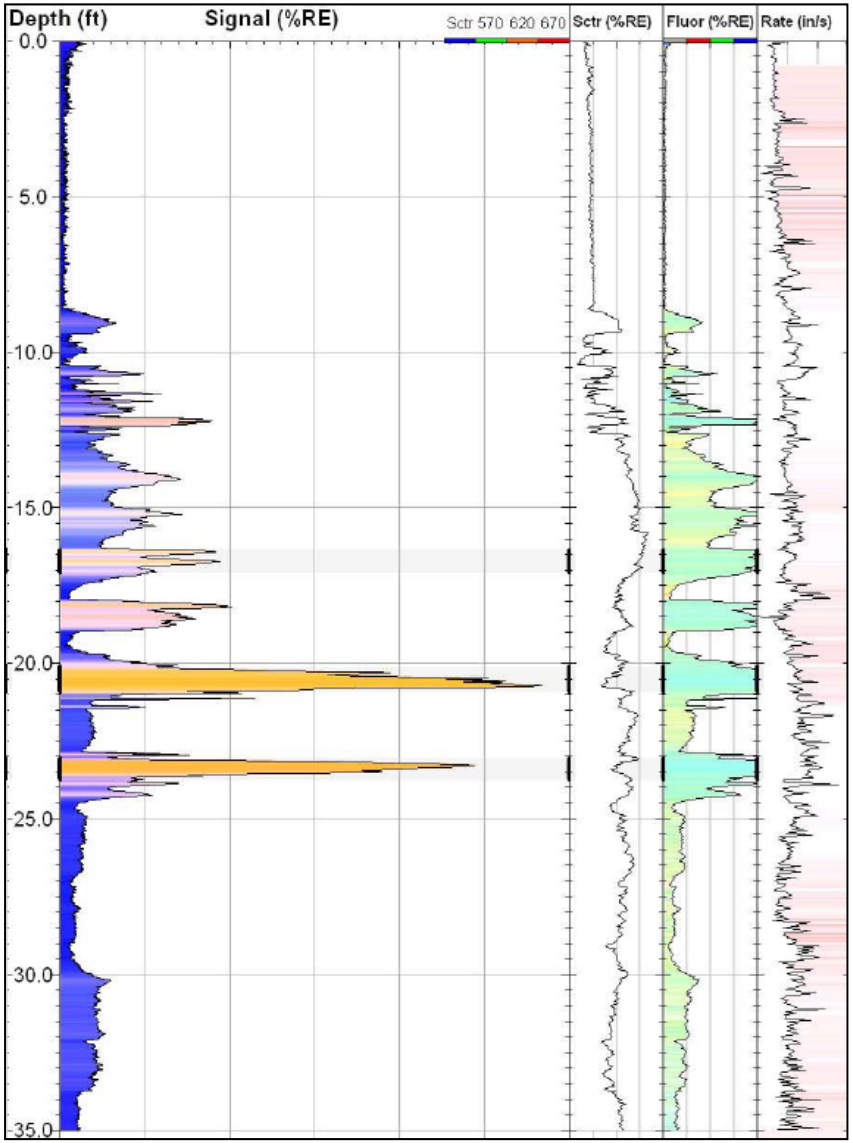
Plate Number: L79
TarGOST Date: 12/07/15

Two sonic bores named L79 and L79A were installed at TarGOST bore L79. Sonic bore L79 was advanced to 26 ft on the first day of drilling, and L79A was installed on the last day to 40 ft to examine soil at depth.

Plate L79a: ~10 to 10.5 ft bls

Plate L79b: ~22.5 to 26 ft bls

Plate L79A-c: ~30 to 32 ft bls



SVOC including SPLP
18 to 19 ft bls

SVOC including SPLP
20 to 21 ft bls

Residual Saturation
21 to 22 ft bls

SVOC including SPLP
30.5 to 31 ft bls

Max TG signal = 142% RE @ 20.7 ft.

Notes: L79 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L79a**
Photo Date: 12/09/15

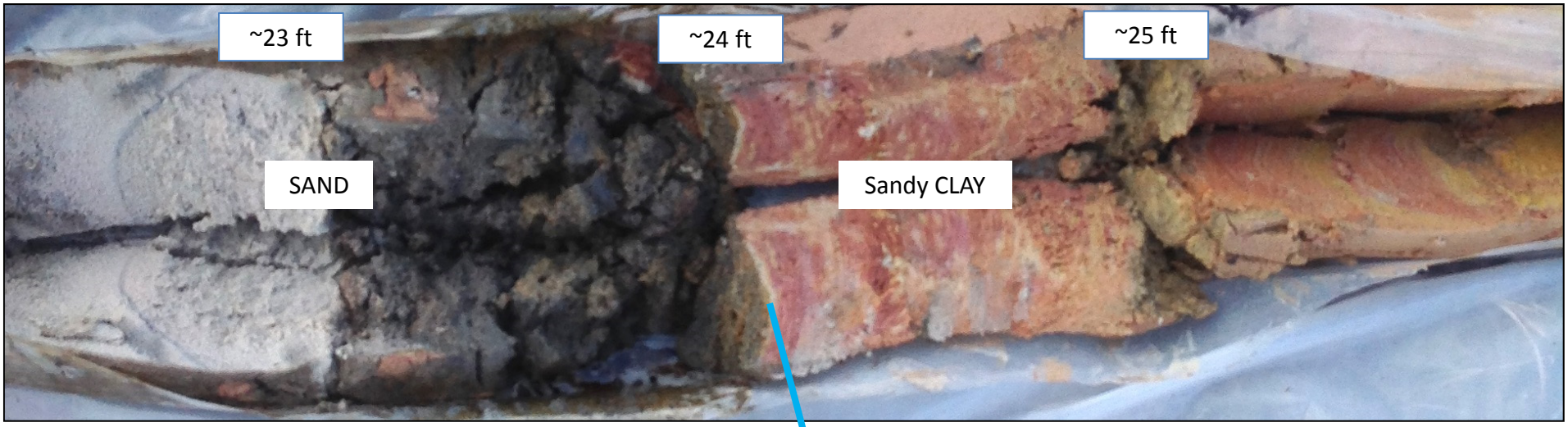
Notes: L79 soil core from 10 to 20 ft bls. Photos are from top of run. Right photo is a magnification of white box in left photo.
The above core is saturated from creosote NAPL based on the sheen, oily feel, and strong odor. The soil is a sand with some clay, and the NAPL was only observed in the top ~4-inches of the core.
The top of the run is wet from drilling water, which is used to push the core out of the barrel into the core bags/sleeves.
The dark color of the soil from 0 to ~19 ft bls reflects incinerated soil that was deposited in the late 1990s File photo s IMG_0526 & 0527

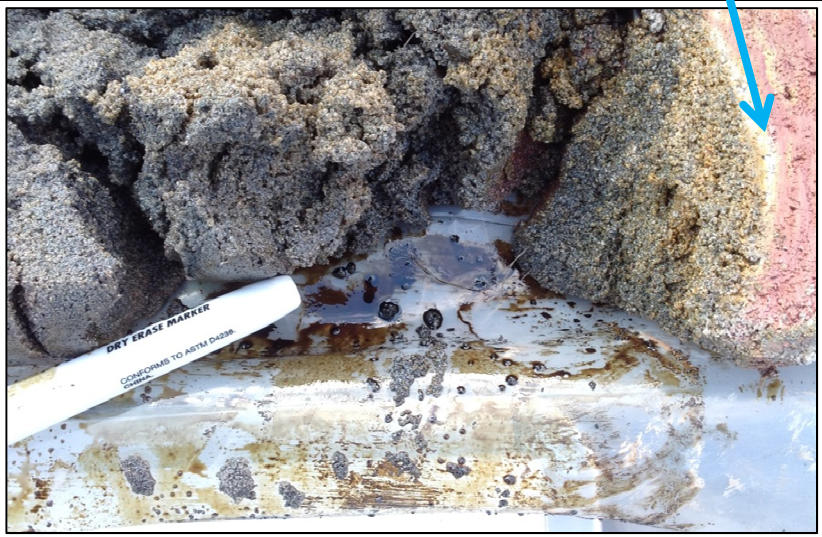
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L79b
Photo Date: 12/09/15





Creosote DNAPL that flowed through the soil and onto the inside of the sonic core sleeve/bag.

Notes: L79 core run from 20 to 26 ft bls. Photo is middle of run. Pen for scale in bottom photo.
Creosote NAPL saturation from 23 to 24 ft. The NAPL resides in the base of gray sand, which discolored the sand to a black color. The red/pink sandy clay at 24 ft inhibited vertical migration of NAPL at this location.

File photo numbers IMG_0540 & 0548

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L79Ac**
Photo Date: 12/13/15

Notes: L79A core run from 30 to 35 ft bls. Photo is top of run.
Creosote sheen and discoloration from 30 to 31 ft (circled). The creosote interval occurs within medium grained, loose silty sand, underlain by plastic sandy clay. Naphthalene results posted above.

File photo number SAM_1041

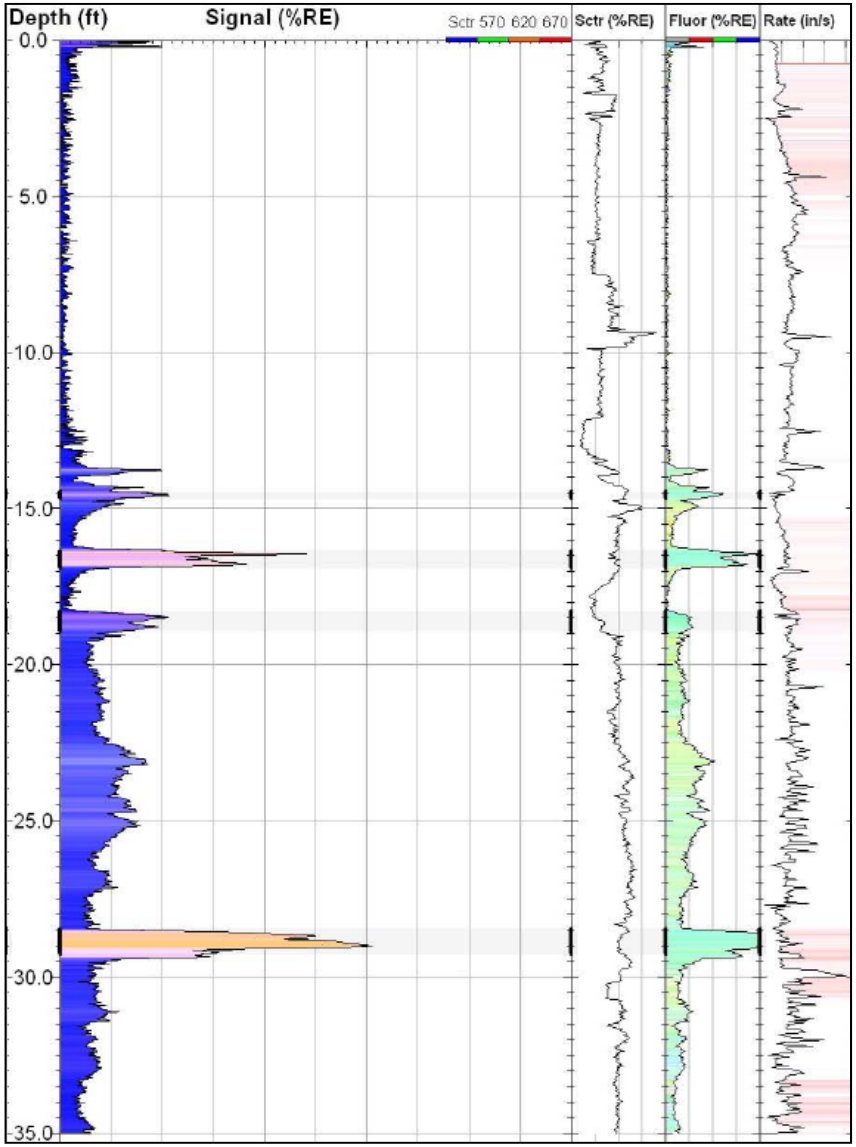
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L80
TarGOST Date: 12/08/15

Plate L80a: 0 to 20 ft bls
&
~15.5 to 17 ft bls



SVOC including SPLP
16.3 to 16.9 ft bls

SVOC including SPLP
18.3 to 18.9 ft bls

SVOC including SPLP
28.5 to 29.3 ft bls

Max TG signal = 61% RE @ 29 ft.

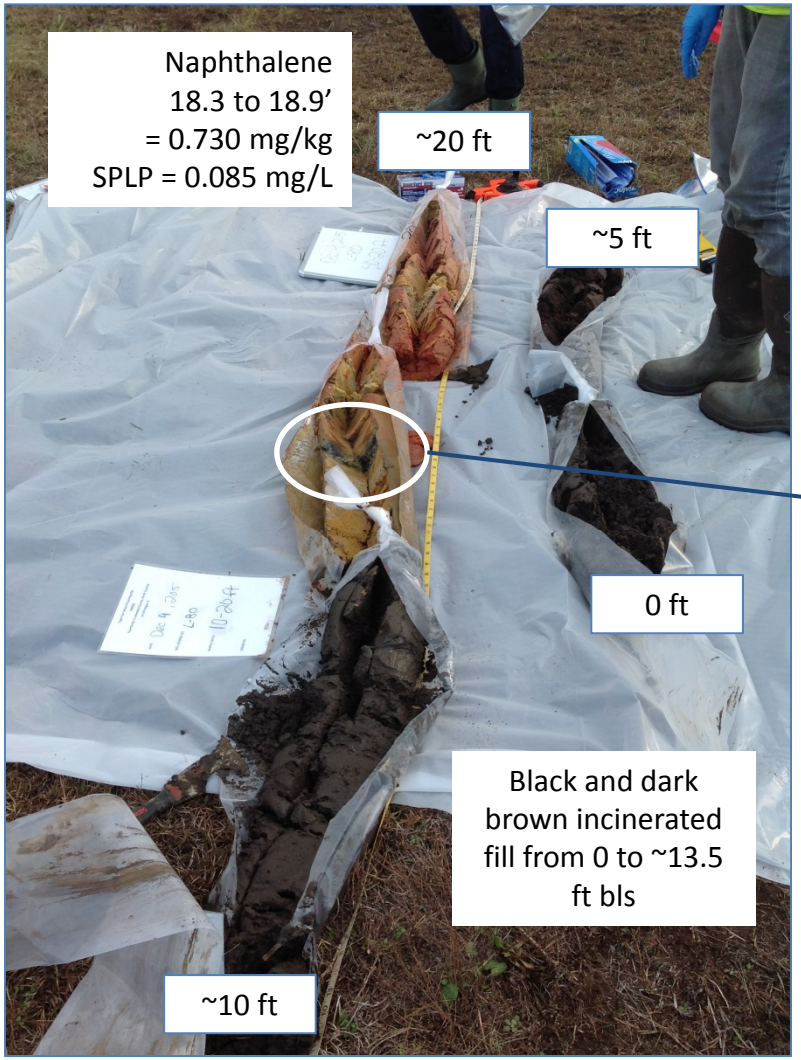
Notes: L80 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

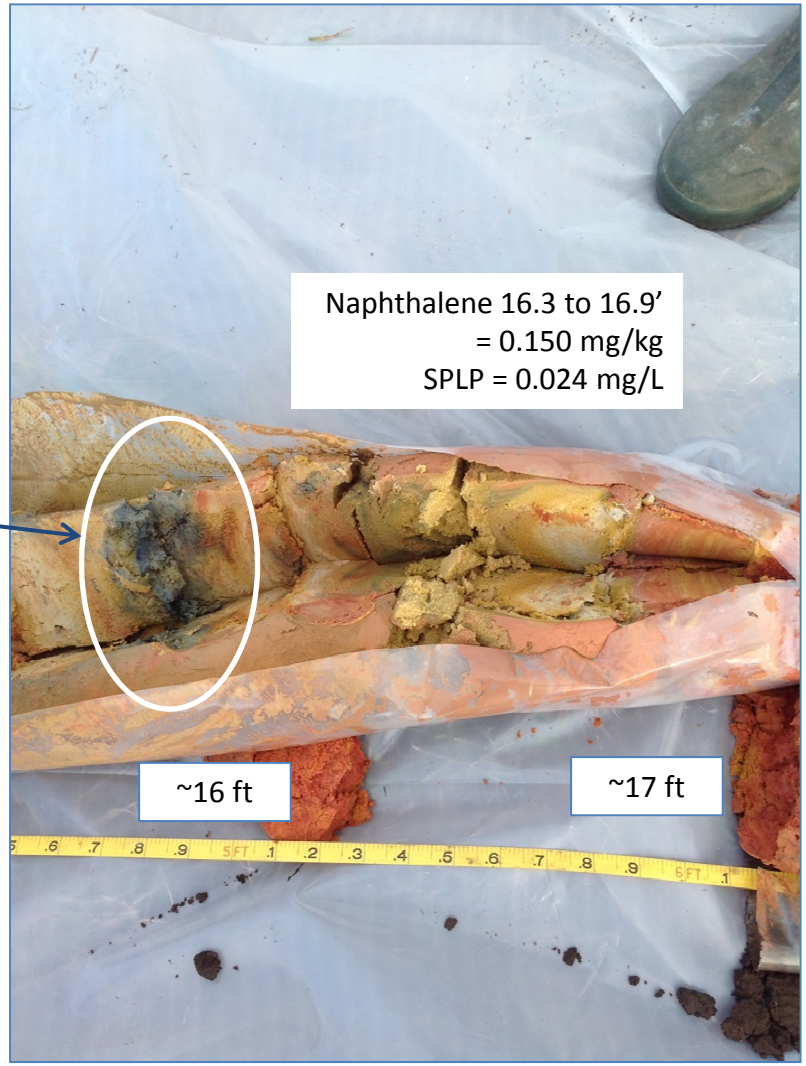
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L80a**
Photo Date: 12/09/15





Notes: L80 core run from 10 to 20 ft bls. Left photo includes entire run. Right photo is middle of run. Visually-impacted soil exhibits creosote staining from 15.7 to 15.9 ft (circled), where the sand is discolored dark gray with a strong odor. SVOC samples were beneath the gray layer and another deeper interval, with naphthalene results posted on both photos. File photo numbers IMG_0556 & 0558

PHOTOGRAPHIC RECORD

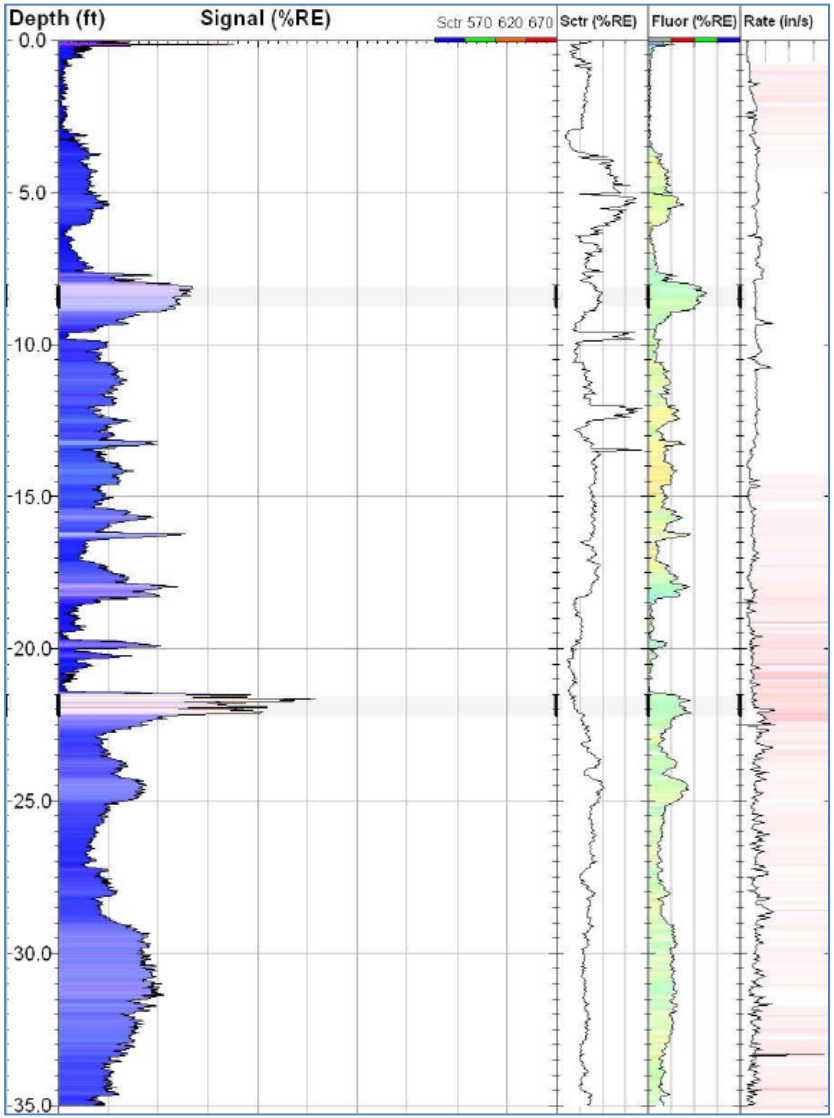
Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L81
TarGOST Date: 12/07/15

Plate L81a: ~18.5 to 25 ft bls

Plate L81a: ~25 to 33 ft bls



SVOC including SPLP
8 to 9 ft bls

SVOC including SPLP
21.5 to 22.5 ft bls

SVOC including SPLP
29.5 to 31.5 ft bls

Max TG signal = 52% RE @ 21.7 ft.

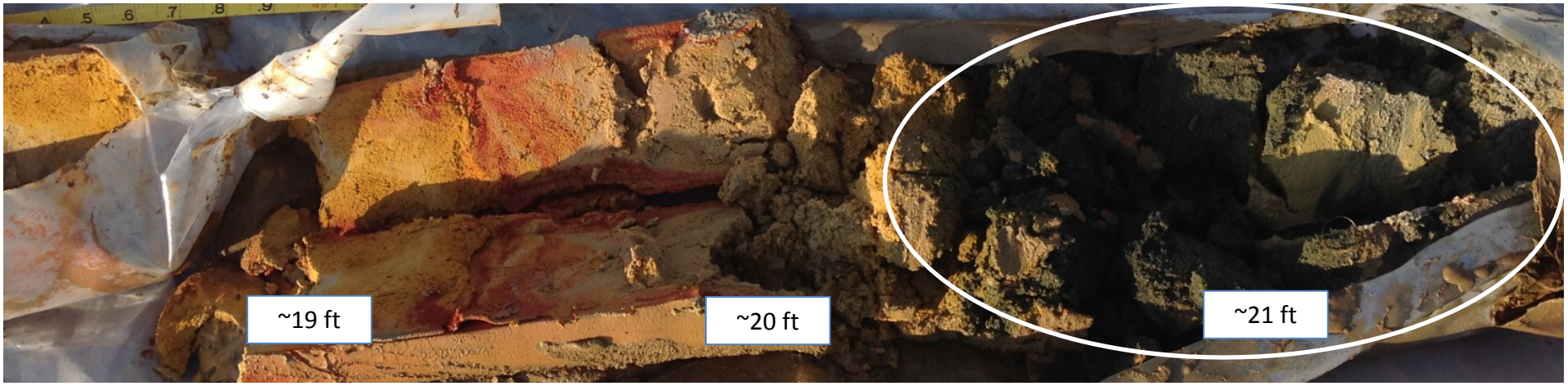
Notes: L81 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L81a**
Photo Date: 12/10/15



Notes: L81 core run from 15 to 25 ft bls. Photo is middle of run.
Black creosote staining within fine to medium grained sand from 20.5 to22.5 ft bls (circled).

Notes: L81 core run from 15 to 25 ft bls. Photo is bottom of run.
Black creosote staining from 20.5 to 22.5 ft bls continued from above core bag. SVOC sample collected from 21.5 to 22.5 ft bls, with naphthalene results posted above.

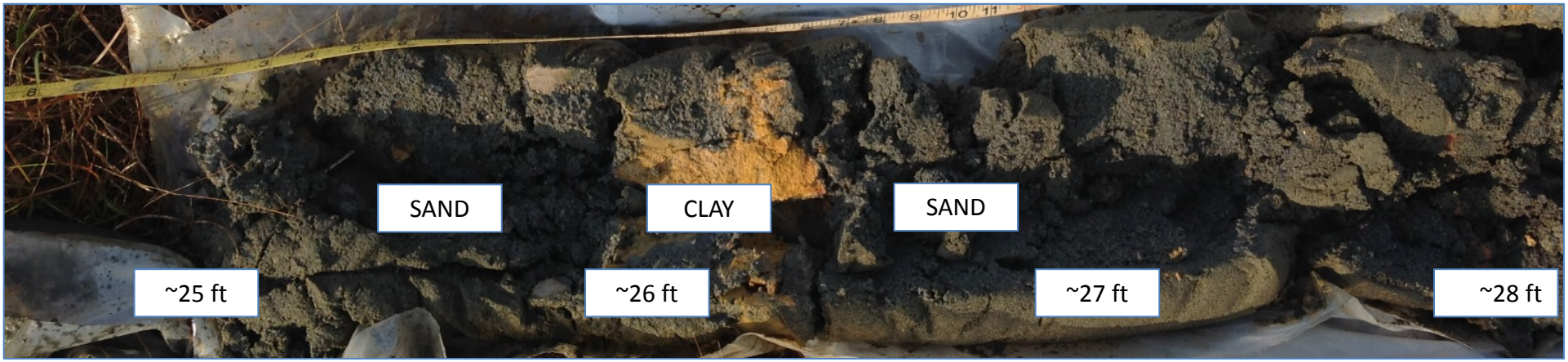
File photo numbers IMG_0585 and 0586

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L81b**
Photo Date: 12/10/15



Notes: L81 core run from 25 to 35 ft bls. Photo is top of run.
Photo showing heavy creosote staining in sand in the bulk of the above core, with the exception of the light brown clay from ~26 to 26.5 ft. The black creosote staining occurred in the sand from 25 to 31 ft (see below).

Notes: L81 core run from 25 to 35 ft bls. Photo is almost at bottom of run.
Stained core continued from above photo. The stained sand ends at 31 ft where it rests on top of sandy clay. SVOC sample collected from 29.5 to 31.5 ft bls, with naphthalene results posted above.

File photo numbers IMG_0591 and 0594

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4
Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)
Plate Number: L83
TarGOST Date: 12/09/15

Plate L83a:
~20 to 23 ft bls

Plate L83b:
~30 to 32.5 ft bls
&
~35 to 37 ft bls

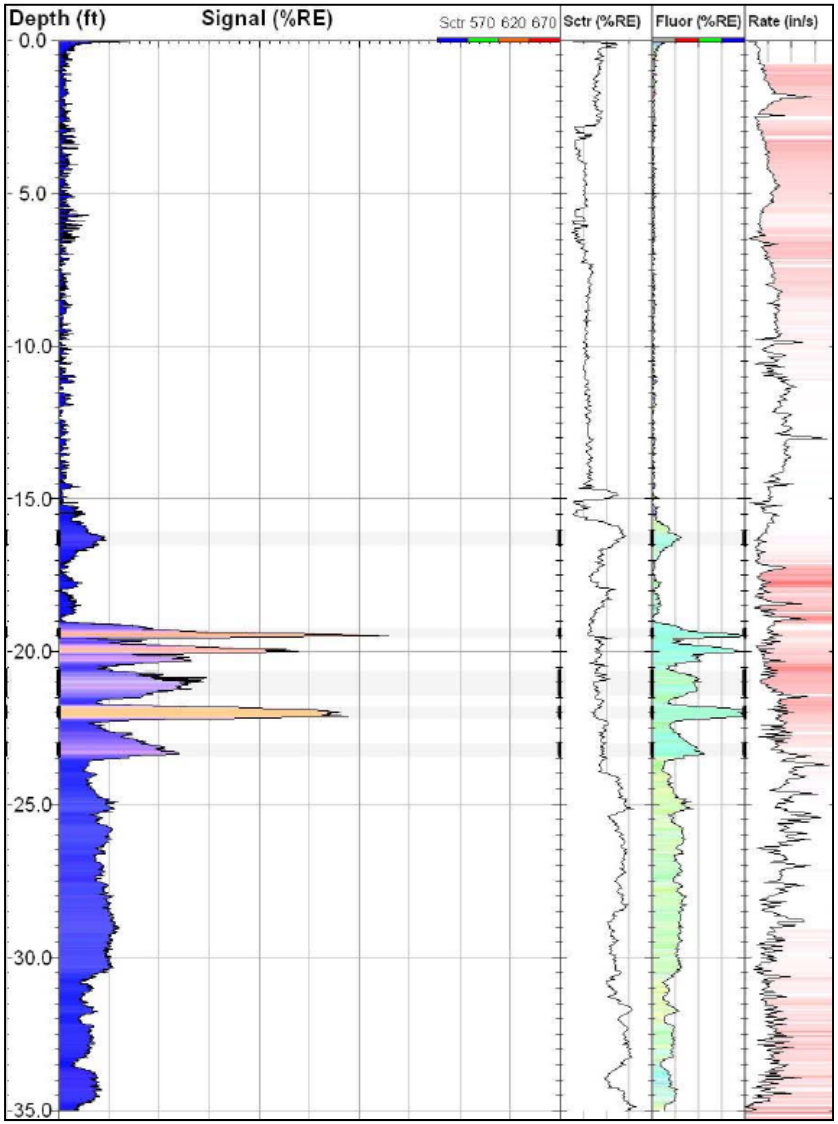
Plate L83c:
~37 to 40 ft bls

Plate L83d:
Sieve analyses

Plate L83A-d:
~30 to 35 ft bls

Plate L83A-e:
~34.5 to 39.5 ft bls

Plate L83A-f:
~48 to 50 ft bls
&
~68 to 70 ft bls



Because of the absence of the stiff clay marker bed at +/- 35 ft bls in the initial sonic boring (L83), a second boring was advanced within 5 ft of this location (L83A).

L83	L83A
SVOC w SPLP 20.5 to 21.5 ft bls	
SVOC w SPLP 21.8 to 22.2 ft bls	**SVOC w SPLP 39.5 to 40 ft bls & 42 to 43 ft bls & 47 to 48 bls & 49.5 to 50 ft bls & 69 to 70 ft bls**
Residual Saturation 21 to 22 ft bls	
Residual Saturation 36.5 to 37.5 ft bls & 37 to 38 ft bls	
SVOC w SPLP 38 to 39 ft bls	

Max TG signal = 66% RE @ 19.5 ft.

Notes: L83 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

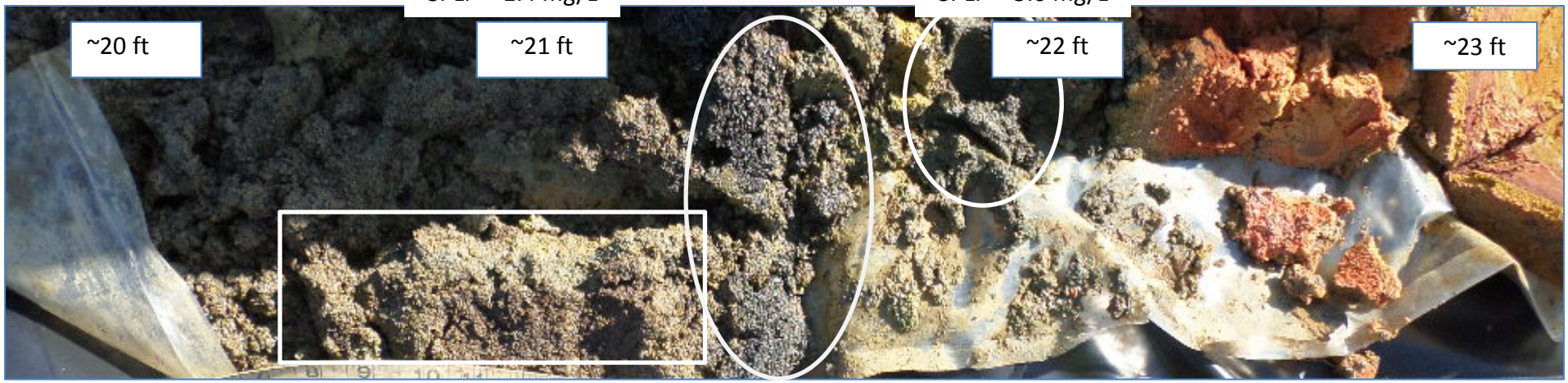
Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L83a
Photo Date: 12/12/15

Naphthalene
20.5 to 21.5'
= 140 mg/kg
SPLP = 1.4 mg/L

Naphthalene
21.8 to 22.2'
= 83 mg/kg
SPLP = 5.0 mg/L



Residual Saturation
21 to 22'
NAPL Saturation = 5.2%
Water Saturation = 61%

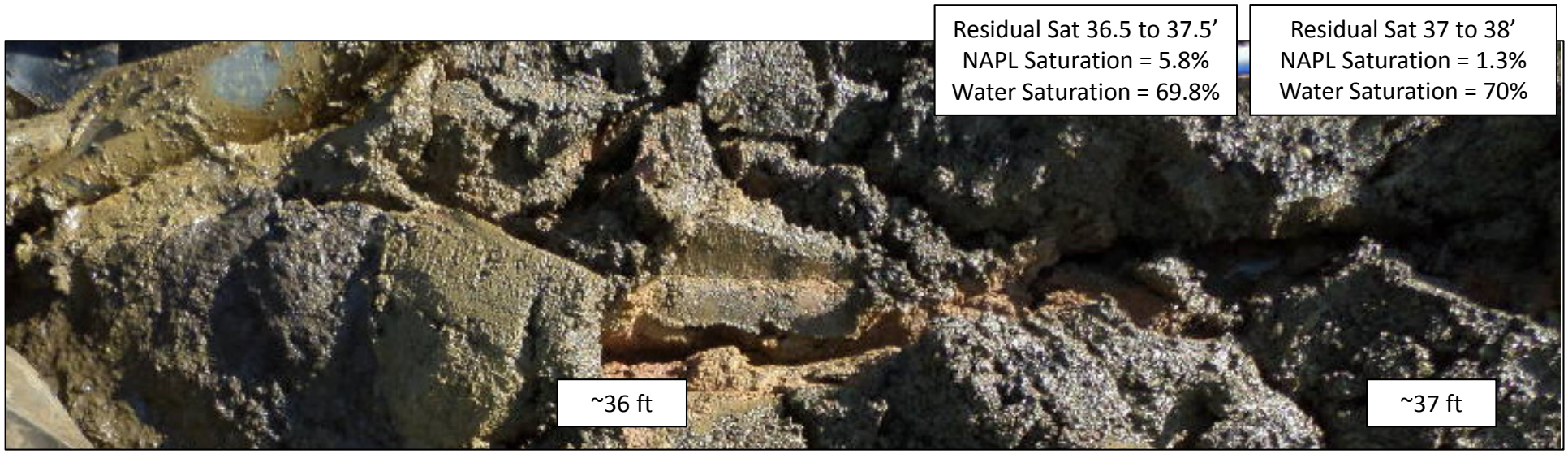
Notes: L83 core run from 20 to 30 ft bls. Photo is top of run.
Creosote NAPL saturation within fine to medium silty sand, which occurs from ~18 to23 ft. The NAPL saturation is light (brown region in box) to heavy (black region in circles). The pink-orange-light brown laminated layer at ~23 ft is the top of clayey sand.
Naphthalene results from two intervals, and residual saturation analysis from ~21 to 22 ft are posted above.

File photo number SAM_0979

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4
Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)
Plate Number: L83b
Photo Date: 12/12/15

Notes: L83 core run from 30 to 35 ft bls. Photo is near top of run. Black oily NAPL saturation from ~30 to30.5 (circled). Other creosote stringers and staining are visible just below 31 ft, and at the black tip of the Sharpie pen.



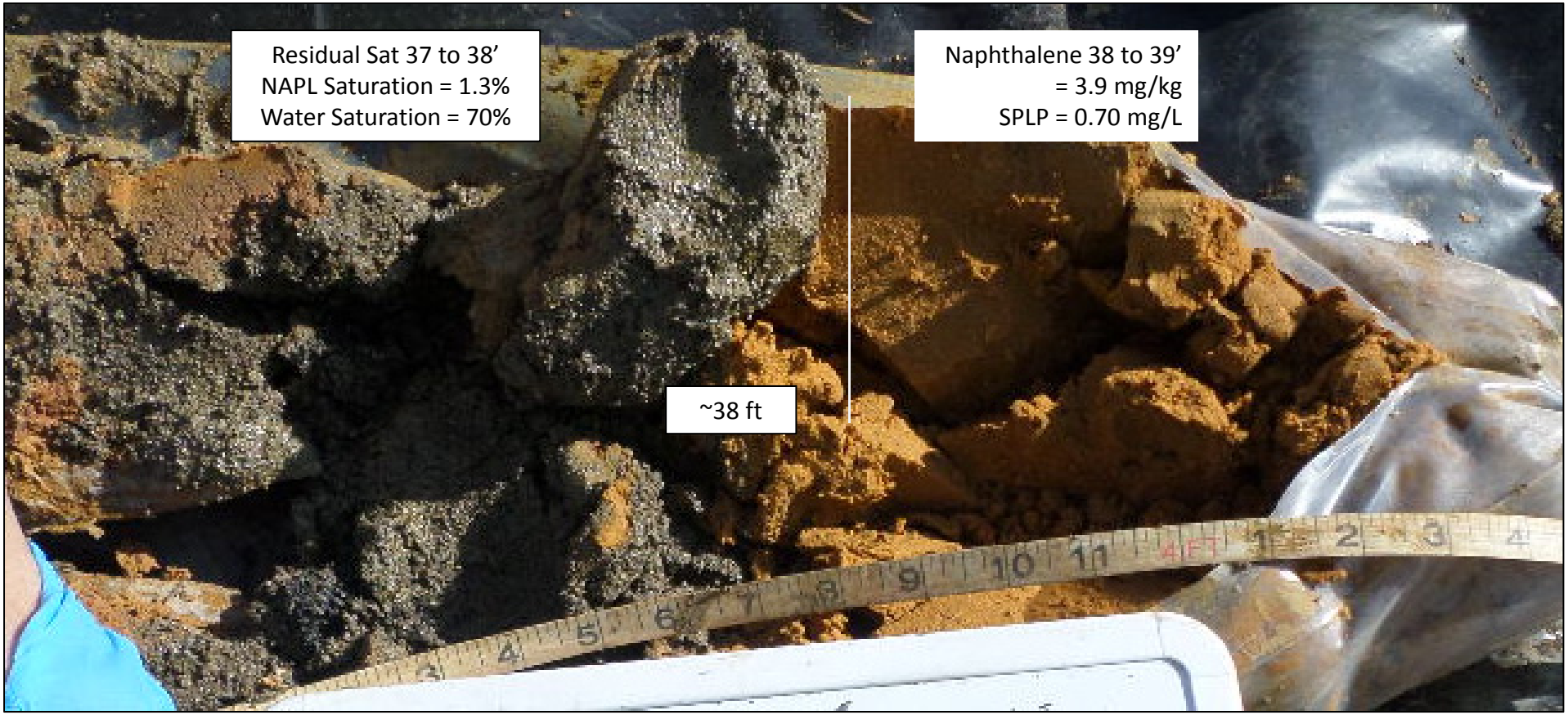
Notes: L83 core run from 35 to 40 ft bls. Photo is near top of run. The confining clay unit that occurs at ~35 ft at most other locations was missing at L83. On the contrary, heavy oily creosote saturation was encountered in fine to medium grain silty sand beginning at `36 ft bls Two residual saturation results posted. File photo numbers SAM_0983 and 0985

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L83c
Photo Date: 12/12/15



Notes: L83 core run from 35 to 40 ft bls. Photo is bottom of run.
As displayed, heavy creosote NAPL contamination continues from previous plate to 38 ft bgs, which is supported by orangish-brown fine-grained sand with some silt. Naphthalene results from a sample collected in the orangish-brown sand is posted above. Residual saturation from NAPL interval is also posted (same as previous plate).
This boring was advanced towards the end of the day and, given the absence of the clay confining unit, there was a concern for vertical migration of NAPL through the drilling process. Therefore, the boring was tremmie-abandoned with high solids bentonite grout. The drillers arrived the next morning to drill an adjacent boring (L83A) deeper. Seven-inch diameter over-ride tools were employed to isolate the NAPL zone, and drill to deeper regimes with the 4 by 6-inch tools (next plates).

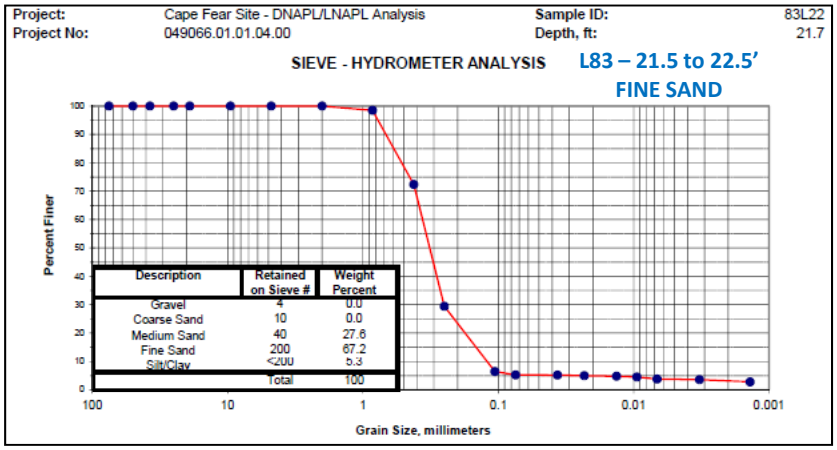
File photo number SAM_0987

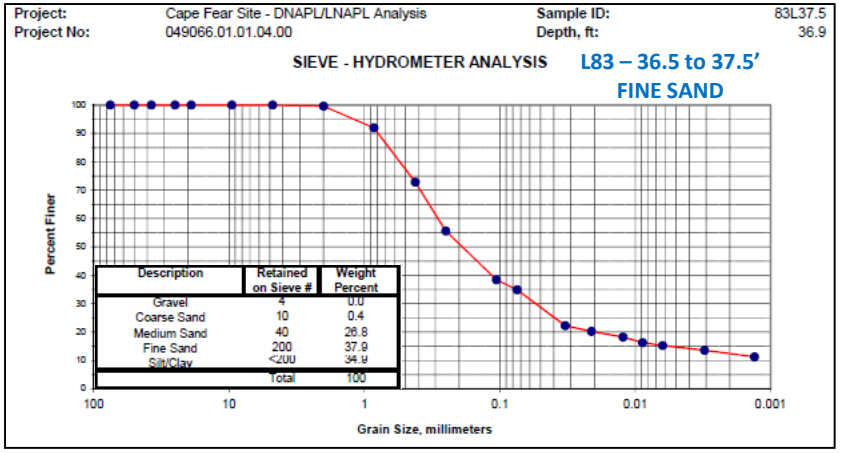
PHOTOGRAPHIC RECORD

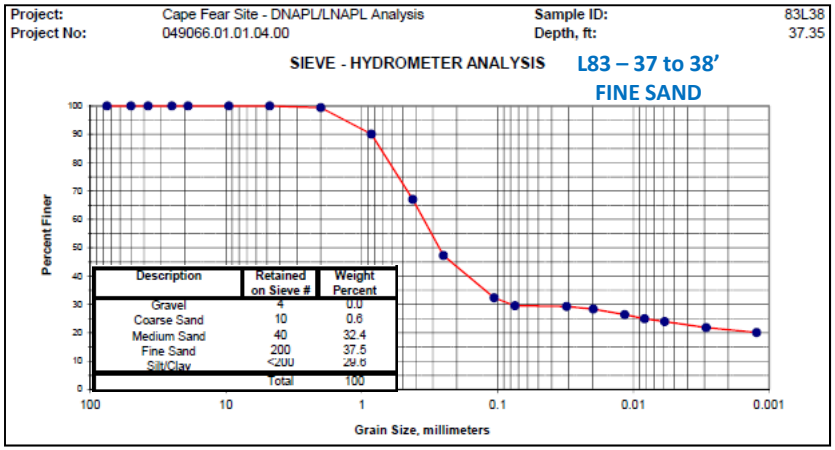
Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

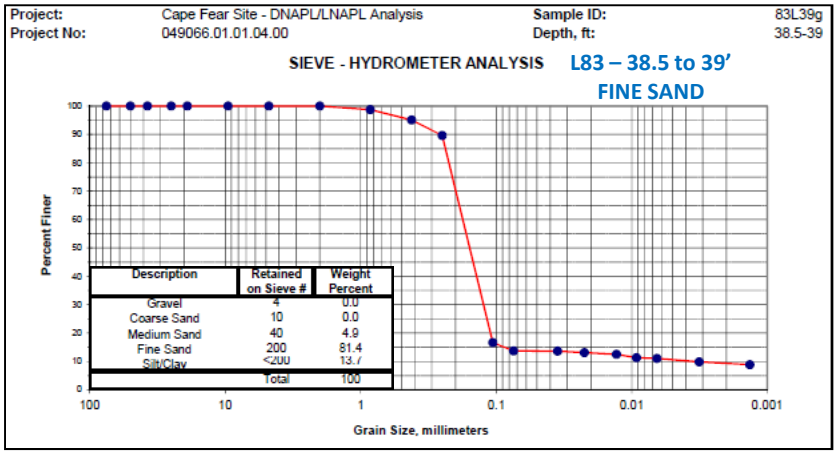
Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: L83d
Sample Date: 12/12/15









Notes: L83 particle size distribution (grain sieve analyses) from four depths per ASTM 422D (see previous plates for soil in matching intervals). All four samples were categorized as fine sand. For the sample of orangish-brown sand that supports/underlies DNAPL at 38 ft in the previous plates (lower right graph), 81% of the sand falls in the 'fine sand' range (0.07 to 0.42 mm). This sample also contained very little silt/clay (14%). Although the geotechnical analyses do not provide grain shape, another consideration for properties of capillary barriers (i.e., support layers for DNAPL) includes the packing arrangement in undisturbed soil. Specifically, for a given size, angular grains can form the tightest packing arrangement, and round grains yield the most pore space.

Full sieve reports in PTS appendix

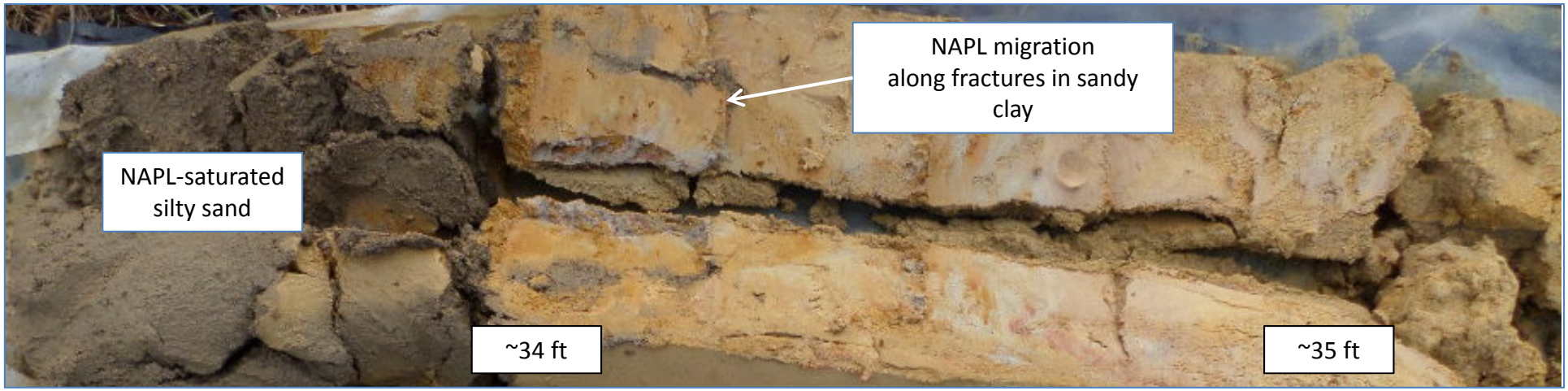
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L83A-e**
Photo Date: 12/13/15

Notes: L83A core run from 30 to 40 ft bls. Photo is top of run.
This section of core consists of medium grained silty sand, and contained light creosote NAPL saturation with an oily feel and strong odor.



Notes: L83A core run from 30 to 40 ft bls. Photo is middle of run.
Contrary to the initial boring at L83, stiff plastic sandy clay was encountered from ~34 to 35 ft, which is the approximately site-wide depth of the marker clay confining unit. However, the clay is only about one-ft thick. The clay supports overlying silty sand, which is saturated with NAPL. Orangish brown silty sand underlies the clay.

File photo numbers SAM_1008 and 1009

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L83A-f**
Photo Date: 12/13/15

Notes: L83A core run from 30 to 40 ft bls. Photo is middle of run.
Medium grained silty sand was logged from ~35 to 37 ft, with overlying sandy clay (34 to 35 ft) and underlying clayey sand (37 to 38 ft. A band of creosote staining exists above at ~35.5 ft.

Notes: L83A core run from 30 to 40 ft bls. Photo is near bottom of run.
Stiff high plasticity clay exists from ~38 to 39 ft, and is underlain by soft clay from 39 to 39.5 ft. The consistency of the stiff clay presented difficulty when attempting to cut the core, as indicated by the indentation made by the paint scraper (circled). The base of the run included sand from 39.5 to 40 ft, with no visual impacts or observable odor. The naphthalene result for the base of the core in this run from 39.5 to 40 ft is posted above.

File photo numbers SAM_1010 and 1011

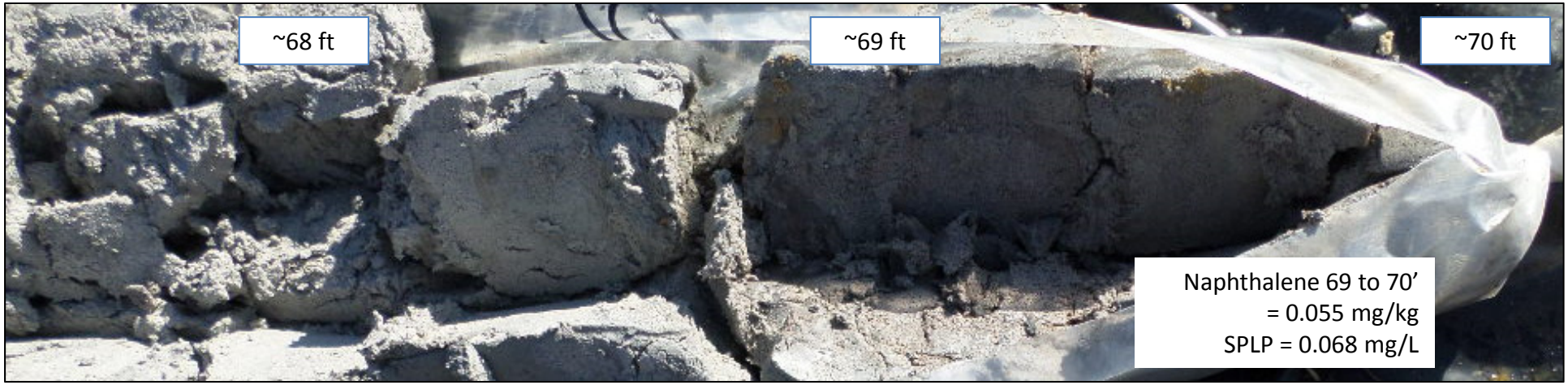
PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L83A-g**
Photo Date: 12/13/15

Notes: L83A core run from 40 to 50 ft bls. Photo is bottom of run. Silty sand from 47 to 50 ft, consisting of light gray to orange to dark gray sand, as displayed above. The black sand appears natural given there was no evidence of sheens or odors, or darker colored bands or stringers seen elsewhere. Naphthalene results posted above for two depths.



Notes: L83A core run from 60 to 70 ft bls. Photo is bottom of run.
The coarse to fine grained light gray sand was present through the entire run from 60 to70 ft, with no apparent impacts. Note there was no recovery from the 50 to 60 ft run, although the driller reported the material was likely all sand based on down pressure.
Naphthalene results from the bottom of the 60 to 70 ft run posted above. File photo numbers SAM_1017 and 1022

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

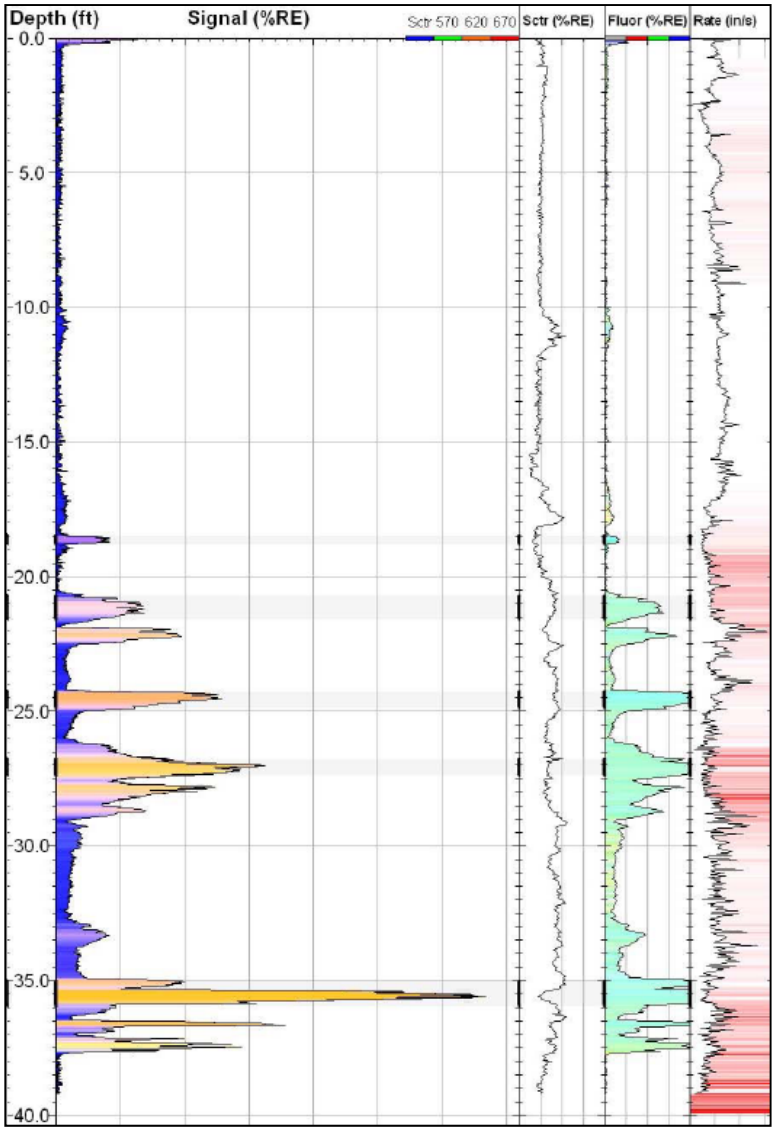
Plate Number: L97
TarGOST Date: 12/11/15

Similar to the TarGOST study in 2009, the scope in 2015 called for the advancement of all borings to 35 ft bls based on site-wide data that indicated the confining clay marker bed at this approximate depth. However, during the field effort, scrutiny of the 2013 DPT study indicated otherwise. Therefore, TarGOST bore L97 was advanced to 38 ft bls, followed by similar depths from L98 to L103.

Plate L97a: ~27 to 30 ft bls

&

~33.5 to 38 ft bls



SVOC including SPLP & Residual Saturation
20.5 to 21.5 ft bls

Residual Saturation
26.5 to 27.5 ft bls

SVOC including SPLP & Residual Saturation
27.5 to 28.5 ft bls

NAPL Mobility
28 to 29 ft bls

SVOC including SPLP & Residual Saturation
34.5 to 35 ft bls

Max TG signal = 168% RE @ 35.6 ft.

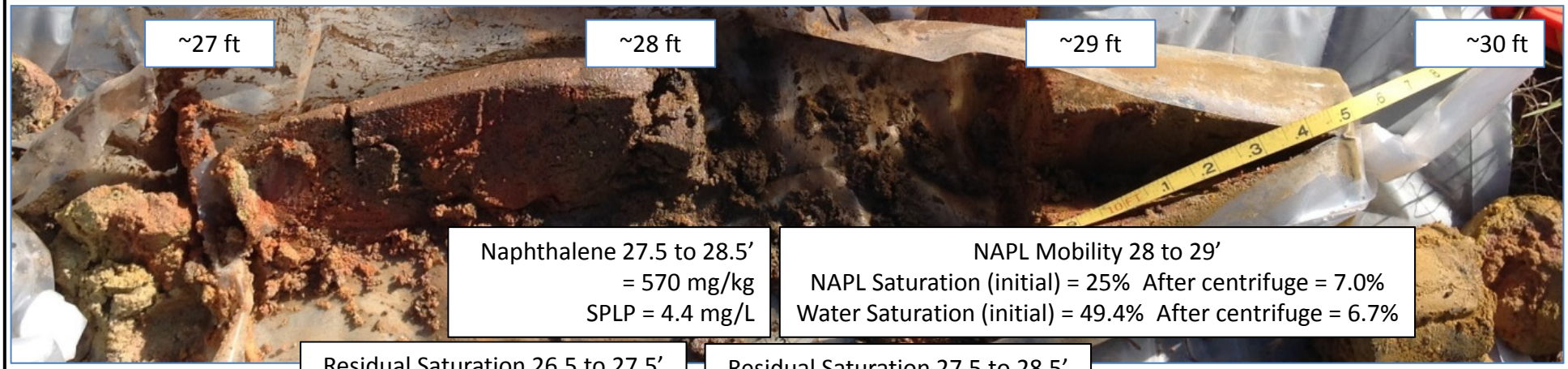
Notes: L97 TarGOST plot from 2015, with photolog intervals of the following plates listed above (left), and sampling intervals (right).

PHOTOGRAPHIC RECORD

Project: Cape Fear Wood Preserving, Fayetteville, NC
Client: US Environmental Protection Agency Region 4

Geologists: Hannah Yost (B&V) & Rohit Warrier / Matt Jenny (GS)
Driller: Andrew Gloege (Cascade – Sonic Track Rig)

Plate Number: **L97a**
Photo Date: 12/11/15



Naphthalene 27.5 to 28.5'
= 570 mg/kg
SPLP = 4.4 mg/L

NAPL Mobility 28 to 29'
NAPL Saturation (initial) = 25% After centrifuge = 7.0%
Water Saturation (initial) = 49.4% After centrifuge = 6.7%

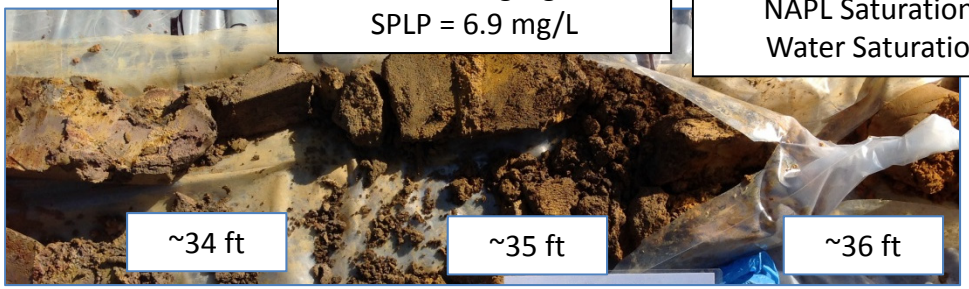
Residual Saturation 26.5 to 27.5'
NAPL Saturation = 6.6%
Water Saturation = 73.5%

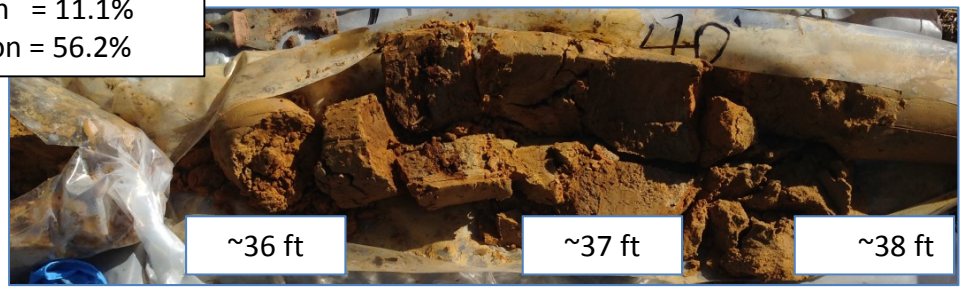
Residual Saturation 27.5 to 28.5'
NAPL Saturation = 5.0%
Water Saturation = 66.2%

Notes: L97 core run from 20 to 30 ft bls. Photo is bottom of run.
Oily creosote NAPL saturation ~28 to 29.5 ft in sand (photo taken after samples collected). In addition to NAPL mobility (27 to 28 ft), residual saturation was collected in L97 from four intervals (20.5 to 21.5 ft, 26.5 to 27.5 ft, 27.5 to 28.5, and 34.5 to 35.5 ft).

Naphthalene 34.5 to 35.5'
1,600 mg/kg
SPLP = 6.9 mg/L

Residual Saturation 34.5 to 35.5'
NAPL Saturation = 11.1%
Water Saturation = 56.2%





Notes: L97 core run from 30 to 40 ft bls. Photos are bottom of run, with an overlap between the two photos.
Creosote NAPL with sheen in silty sand from 34 to 35 ft, underlain by silt from ~35 to 38 ft. Naphthalene and Residual Saturation results posted above.

File photo numbers IMG_0662, 0664, and 0665

Attachment E. Soil Laboratory Data (on CD only)

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DATA USABILITY REPORT

DATE: February 24, 2016

SUBJECT: Cape Fear Wood Preserving
Fayetteville, Cumberland County, North Carolina

FROM: Darci Scherbak, Task Order Manager
Black & Veatch Special Projects Corp.

TO: Hilary Thornton, Remedial Project Manager
U.S. Environmental Protection Agency

PROJECT NUMBER: 16-0114

SAMPLE EVENT: December 9 – 13, 2016

DCN: 49066-0105-08-A-02193R0A1

SAMPLES:

EBL94	79L21	83AL70
101L29.5	79AL31	86L06
101L34	80L16.9	86L19.8
19L32	80L18.9	86L30.3
57L17	80L29.3	986L30.3
57L22.5	81L09	89L13.5
57L31.5	81L22.5	89L16.5
72L12.5	81L31.5	89L20.5
72L14	82L7.9	989L20.5
72L16	83L21.5	94L4.5
72L20	83L22.5	95L30.5
72L27	83L39	95L31.5
76AL17.3	83AL40	97L21.5
76AL34	83AL43	97L28.5
77L33	83AL48	97L35.5
79L19	83AL50	997L21.5

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 *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014, 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 2014.*

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 16-0114 containing the qualified analytical results for 47 soil samples collected at the Cape Fear Wood Preserving Site. The samples were analyzed for the following: semivolatile organic compounds (SVOCs) and SPLP SVOCs.

MAJOR ISSUES

Semivolatile Organic Compounds

The percent recoveries for DMC 4-chloroaniline-d4 was zero % in sample 83L21.5. Results for 4-chloroaniline were non-detect and qualified "UR". The data are rejected and should be considered unusable.

Percent recoveries for DMC 4,6-dinitro-2-methylphenol-2 were less than ten percent (%) in the following samples: 101L34, 57L17, 72L12.5, 72L14, 79L21, 83L21.5, 86L19.8, 97L28.5 and 97L35.5, and for dimethylphthalate-d6 in sample 97L35.5. The results for 4,6-dinitro-2-methyphenol, caprolactam, diethylphthalate, di-n-butylphthalate, butylbenzylphthalate, bis(2-ethylhexyl)phthalate, di-n-octylphthalate and dimethylphthalate in the affected samples were non-detect and qualified "UR". The data are rejected and should be considered unusable.

SPLP Semi-Volatile Organic Compounds

The laboratory scored within warning limits for all spiked analytes in the PES except for 2-nitroaniline, which scored action low. All results for 2-nitroaniline was non-detect and qualified "UR". The data are rejected and should be considered unusable.

The percent recovery for DMC 1,4-dioxane-d8 was less than ten percent (%) in samples 19L32 and 94L4.5 and for 4-nitrophenol-d4 in sample 83AL43. The associated results for 1,4-dioxane, 2-nitroaniline, 3-nitroaniline, 2,4-dinitrophenol, 4-nitroaniline, and 4-nitrophenol were non-detect and qualified "UR". The data are rejected and should be considered unusable.

The percent recoveries for DMC 4-chloroaniline-d4 was zero % in the following samples: 76AL34, 77L33, 83AL43, 83AL48, 83AL70, 86L06, 89L13.5, 89L20.5, 989L20.5 and 94L4.5, and zero % for 4,6-dinitro-2-methylphenol-d2 in samples: 76AL17.3 and 83L22.2. All results for 4-chloroaniline and 4,6-dinitro-2-methylphenol were non-detect and qualified "UR". The data are rejected and should be considered unusable.

MINOR ISSUES

Semi-Volatile Organic Compounds

Some sample results for 2,4-dinitrophenol were qualified "UJ" because the initial calibration response was erratic. The sample results should be considered estimated at the MRL.

Some sample results for acetophenone, phenol, 2-methylphenol, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, indeno (1,2,3-cd) pyrene, 1,1-biphenyl, carbazole, dibenzofuran, fluorene, phenanthrene, (3-and/or 4-)methylphenol, benzo(k)fluoranthene, 2,4-dimethylphenol, benzo(b)fluoranthene, acenaphthylene, fluoranthene, 2-

methylnaphthalene, benzo(a)anthracene, acenaphthene, anthracene, benzo(a)pyrene, chrysene, naphthalene and pyrene had an analyte concentration low in the continuing calibration verification standard and were qualified "UJ", estimated at the MRL.

Some sample results for benzo(a)anthracene, fluoranthene, phenanthrene, and pyrene had an analyte concentration high in the continuing calibration verification standard and were qualified "J", estimated at the MRL.

The continuing calibration relative response was outside method control limits for pentachlorophenol in samples 89L20.5 and 989L20.5 and were qualified "J", estimated.

In some sample results for 2,4-dinitrophenol, hexachlorocyclopentadiene and pentachlorophenol, the initial calibration response was erratic. The sample results were detect and qualified "J".

In sample 97L35.5, the internal standard was outside method control limits for the following compounds: atrazine, 4-bromophenyl phenyl ether, hexachlorobenzene, n-nitrosodiphenylamine and pentachlorophenol. The associated sample results were non-detect and qualified "UJ".

In all samples, the surrogate recovery for 1,4-dioxane was lower than established control limits. The sample results for 1,4-dioxane was non-detect and qualified "UJ".

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." In some samples, tentatively identified compound results were reported as identified by the lab but their IDs were not verified.

SPLP Semi-Volatile Organic Compounds

In some sample results for 2,4-dinitrophenol, hexachlorocyclopentadiene and pentachlorophenol, the initial calibration response was erratic. The sample results were detect and qualified "J," estimated.

Some sample results for 1,1-biphenyl and 2,4-dimethylphenol had an analyte concentration high in the continuing calibration verification standard and were qualified "J", estimated.

Some sample results for 2,4-dinitrophenol, hexachlorocyclopentadiene and pentachlorophenol had an analyte concentration low in the continuing calibration verification. The sample results were detect and qualified "J," estimated.

The matrix precision was outside method control limits for acenaphthalene in sample 83AL50 and less than method control limits in sample 83AL48. The compound was detect in both samples and qualified "J". The results should be considered estimated, and may be of poor precision.

In all samples, the surrogate recovery for 1,4-dioxane was lower than established control limits. The sample results for 1,4-dioxane was non-detect and qualified "UJ," estimated 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 Duplicates

Field duplicate sets 86L30.3 / 986L30.3, 89L20.5 / 989L20.5 and 97L21.5 / 997L21.5 were submitted and RPDs were calculated for all analytes with concentrations greater than the reporting limit in the parent and duplicate sample. Results are represented below:

86L30.3 / 986L30.3 (SVOA)

Compound	RPD
1,1-Biphenyl	38.7
2-Methylnaphthalene	29.9
Acenaphthene	42.4
Anthracene	44.1
Benzo(a)anthracene	49.2
Benzo(a)pyrene	**50.0**
Benzo(b)fluoranthene	**53.3**
Carbazole	34.0
Chrysene	49.1
Dibenzofuran	42.9
Dimethyl phthalate	23.2
Fluoranthene	45.5
Fluorene	48.3
Naphthalene	12.5
Phenanthrene	**63.5**
Pyrene	46.2

86L30.3 / 986L30.3 (SPLP SVOA)

1,1-Biphenyl	**54.2**
2-Methylnaphthalene	**83.7**
Acenaphthene	**146.2**
Anthracene	40.0
Carbazole	30.0
Dibenzofuran	49.3
Fluoranthene	47.6
Fluorene	43.9
Naphthalene	21.8
Phenanthrene	**57.3**
Pyrene	36.6

89L20.5 / 989L20.5 (SVOA)

Compound	RPD
2-Methylnaphthalene	41.0
Acenaphthene	47.8
Anthracene	**55.8**

Benzo(a)anthracene	45.7
Chrysene	49.1
Dimethyl phthalate	4.1
Fluoranthene	44.7
Fluorene	50.0
Naphthalene	39.0
Pentachlorophenol	**73.5**
Phenanthrene	**60.4**
Pyrene	42.0

89L20.5 / 989L20.5 SPLP SVOA)

1,1-Biphenyl	38.1
2-Methylnaphthalene	**80.0**
Acenaphthene	22.2
Acenaphthalene	**101.4**
Anthracene	50.0
Carbazole	5.9
Dibenzofuran	28.6
Fluoranthene	46.2
Flourene	31.1
Naphthalene	**105.9**
Phenanthrene	**173.7**

97L21.5 / 997L21.5 (SVOA)

Compound	RPD
1,1-Biphenyl	2.3
2-Methylnaphthalene	**161.3**
Acenaphthene	4.4
Acenaphthalene	19.7
Anthracene	40.0
Benzo(a)anthracene	33.3
Benzo(a)pyrene	28.0
Benzo(b)fluoranthene	35.3
Benzo(ghi)perylene	42.1
Benzo(k)fluoranthene	11.4
Carbazole	35.3
Chrysene	33.3
Dibenzofuran	**198.0**
Dimethyl phthalate	13.3
Fluoranthene	10.5
Fluorene	5.1
Indeno	34.8
Naphthalene	8.0
Phenanthrene	9.2
Pyrene	6.5

97L21.5 / 997L21.5 (SPLP SVOA)	
1,1-Biphenyl	43.7
2-Methylnaphthalene	43.8
Acenaphthene	25.4
Acenaphthalene	**152.6**
Anthracene	**155.1**
Carbazole	43.8
Dibenzofuran	26.9
Fluoranthene	**163.6**
Fluorene	29.4
Naphthalene	**66.7**
Phenanthrene	31.8
Pyrene	0.0

Based on the *Region I, EPA-New England Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996*, the RPDs for soil/sediment samples must be less than or equal to 50%. Although the SPLP SVOA samples are analyzed as water, the initial matrix is soil and those samples were also compared to the soil/sediment limits. The bolded compounds in each sample set were detected at concentrations greater than the MRL and were qualified "J".

NOTES

The analytical data included for project numbers 16-0114 are of sufficient quality and are deemed acceptable for their intended use, except those qualified "R," rejected and unusable.

Attachments

Attachment I: Sample Data with Additional Qualifiers Based on Blank Samples

ATTACHMENT I: QUALIFIED DATA SHEETS

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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4300	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U, J, QC-1	ug/kg dry	79	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	15000	J	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	23000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	950		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	3900	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4200	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	2000		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	230		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	650		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	3000		ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	3500	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	82	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	16000	J	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	400		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	30000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	20000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	270		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	39000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	57000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	16000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
29338-49-6	1,1-Diphenyl-2-propanol	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2131-42-2	Naphthalene, 1,4,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.12	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.64		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.71		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.043	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.024	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.39	J, CLP01	mg/L	1.0	12/21/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.38	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.044	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.39	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	5.0	J	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.51		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.025		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
148-86-7	[1,1-Biphenyl]-4-ol, acetate	0.008	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
132-75-2	1-Naphthaleneacetonitrile	0.005	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
63621-15-8	2,4-Nonadiyne	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2523-37-7	9H-Fluorene, 9-methyl-	0.009	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
85-02-9	Benzo[f]quinoline	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.09	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.3	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	0.007	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.04	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
1127-76-0	Naphthalene, 1-ethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.05	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
612-60-2	Quinoline, 7-methyl-	0.007	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		12/16/15	12/20/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4400	J, CLP01	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	77	U, J, QC-1, QS-3	ug/kg dry	77	12/16/15	12/20/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	14000	J	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	22000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	780		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
120-12-7	Anthracene	2600		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3000		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	830		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1400		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	150	J, CLP01	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	580		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
86-74-8	Carbazole	2100		ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
218-01-9	Chrysene	2500		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	69	J, CLP01	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	16000	J	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	350		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
206-44-0	Fluoranthene	27000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	19000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U, J, QC-1	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-20-3	Naphthalene	36000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
85-01-8	Phenanthrene	52000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
129-00-0	Pyrene	15000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
243-17-4	11H-Benzo[b]fluorene	300	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
33543-31-6	Fluoranthene, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	9000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	900	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.077		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.41		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.55		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.032	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.019	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0023	J, CLP01	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.25	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0019	J, CLP01	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.29		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.044	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.29		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	2.5	J	mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.37		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.025		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
644-08-6	1,1-Biphenyl, 4-methyl-	0.008	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
132-75-2	1-Naphthaleneacetonitrile	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.08	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
526-73-8	Benzene, 1,2,3-trimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U, J, QC-1	ug/kg dry	79	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	9.4		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	14		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	11	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	8.6		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	2.4	J, CLP01	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	7.1		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	500		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	63	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	20		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	46		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	6.7	~~J, CLP01, CLP32~~ J	ug/kg dry	7.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	110	J	ug/kg dry	19	12/16/15	12/30/15	CLP SOM02.3 BS
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	49	J, QC-2	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0068		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.027	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.036		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID:** C160301-40 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N57 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers		Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0018	~~J, CLP01~~	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0018	J, CLP01		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0035	J, CLP01		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.018			mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0035	J, CLP01		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.019			mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.16	J	mg/L	0.025	12/23/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.026	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
994-05-8	Butane, 2-methoxy-2-methyl-	0.007	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.007	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	78	U, J, QC-1	ug/kg dry	78	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	6.2		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	8.6		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	6.2	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	5.4		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.3		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	480		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	40	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	12		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	31		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	3.1	~~J, CLP01, CLP32~~ J	ug/kg dry	7.8	12/16/15	12/29/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	59	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	32	J, QC-2	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID:** C160301-41 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N58 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.011		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.063	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.045		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID:** C160301-41 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N58 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0055	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0030	J, CLP01	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0033	J, CLP01	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.024		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0056		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.026		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.52	J	mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.037	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0036	J, CLP01	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
270-82-6	2-Benzothiophene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.008	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.04	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	250		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	75	U	ug/kg dry	75	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	710		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1300		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	72	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-86-2	Acetophenone	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	230		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	230		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	66	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	110	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	220	J, CLP01	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	200		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	970		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	420		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	1700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1100		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	1500		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	2900	J	ug/kg dry	380	12/11/15	12/17/15	CLP SOM02.3 B
108-95-2	Phenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	1000		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.015	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.10	~~J, CLP01~~ J	mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.079	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID:** C160301-36 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N38 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0056		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0048	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.023		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.043		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.026		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.050		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.66		mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.11	~~J, CLP01~~ J	mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.011		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
6306-07-6	1-Acenaphthenol	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
3770-48-7	4-Methylcarbazole	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	370		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	76	U	ug/kg dry	76	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	960		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2000		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	110	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	360		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	380		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	110	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	190	J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	60	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	310	J, CLP01	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	330		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	1500		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	530		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	2700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1800		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	1700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	5600	J	ug/kg dry	970	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	38	J, CLP01	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	1600		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
35465-71-5	2-Phenylnaphthalene	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	700	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0086	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.041	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.049	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0036	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0032	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.017		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.026		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.016		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.032		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.53		mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.061	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0076		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

January 25, 2016

Ed Hicks
Black & Veatch Special Projects Corp.
1120 Sanctuary Pkwy., Ste. 200
Alpharetta, CA 30009

Re: PTS File No: 45712
Physical Properties Data
Cape Fear Site - DNAPL/LNAPL Analysis; 049066.01.01.04.00

Dear Mr. Hicks:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Cape Fear Site - DNAPL/LNAPL Analysis; 049066.01.01.04.00 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The cores remain in frozen storage and will be held indefinitely. Please note that core storage will be billed monthly beginning March 1, 2016.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

PTS Laboratories

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project Number: 049066.01.01.04.00

PTS File No: 45712
Client: Black & Veatch Special Projects Corp.

TEST PROGRAM - 20151223

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis w/ hydrometer	Free Product Mobility	Pore Fluid Saturation Package	Residual Saturation by Water Drive				Comments
		Plugs:	Grab	Vert. 1.5"	Vert. 1.5"	Vert. 1.5"				
Date Received: 20151211										
72L27M	**26-27**	**0.90**		**X**						
79L21	**20-21**	**0.75**	**X**		**X**					
86L19.8	**18.9-19.8**	**0.70**	**X**		**X**					
TOTALS:	**3 cores**	**2.35**	**2**	**1**	**2**					**3**

Laboratory Test Program Notes

Contaminant identification: _____

Standard TAT for basic analysis is 10 business days.

Samples received cryogenically preserved will be stored frozen at standard core storage rates from sample date of receipt. Core storage charges will be billed monthly or quarterly depending upon project.

Free Product Mobility Package: Applied centrifugal force demonstrates product mobility; includes residual saturations by Dean-Stark, total porosity, grain and dry bulk density.

Pore Fluid Saturation Package: API RP40 Dean-Stark Method: Includes initial pore fluid saturations, total porosity, air-filled porosity, grain density, dry bulk density and moisture content.

Soil from areas under California Exterior Quarantine will be handled as regulated domestic quarantine soil.

Geologic samples are exempt from quarantine; soil lower boundary is set at 91 cm (3 ft depth).

OPTIONAL

Residual Saturation by Water Drive: Sample driven to residual saturation by water/NAPL displacement. Residual saturations by Dean-Stark extraction, total porosity, bulk and grain density.

PTS Laboratories

PTS File No: 45712
Client: Black & Veatch Special Projects Corp.
Report Date: 01/25/16

PHYSICAL PROPERTIES DATA - PORE FLUID SATURATIONS

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project No: 049066.01.01.04.00

		METHODS:	API RP 40 / ASTM D2216	API RP 40		API RP 40		API RP 40	
				DENSITY		POROSITY, %Vb (2)		PORE FLUID SATURATIONS, % Pv (3)	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	DRY BULK, g/cc	GRAIN, g/cc	TOTAL	AIR FILLED	WATER	NAPL
79L21	20.4	V	18.7	1.57	2.65	40.5	11.3	69.4	2.8
86L19.8	19.3	V	19.1	1.63	2.65	38.5	7.4	78.2	2.6

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS File No: 45712
Client: Black & Veatch Special Projects Corp.
Report Date: 01/25/16

PTS Laboratories

FREE PRODUCT MOBILITY: INITIAL AND RESIDUAL SATURATIONS

(Centrifugal method: samples spun under air)

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project No: 049066.01.01.04.00

			METHODS:	API RP 40		API RP 40	ASTM D425M, DEAN-STARK			
							PORE FLUID SATURATIONS (3), % Pv			
		SAMPLE		DENSITY		TOTAL	Initial Fluid Saturations		After Centrifuge at 1000xG	
SAMPLE ID.	DEPTH, ft.	ORIENTATION (1)	ANALYSIS DATE	DRY BULK, g/cc	GRAIN, g/cc	POROSITY (2), %Vb	WATER (Swi) SATURATION	NAPL (Soi) SATURATION	WATER (Srw) SATURATION	NAPL (Sor) SATURATION
72L27M	26.5	V	20160107	1.67	2.64	36.7	60.4	9.2	13.7	7.9

NOTE: Dark brown DNAPL produced. Produced water clear.

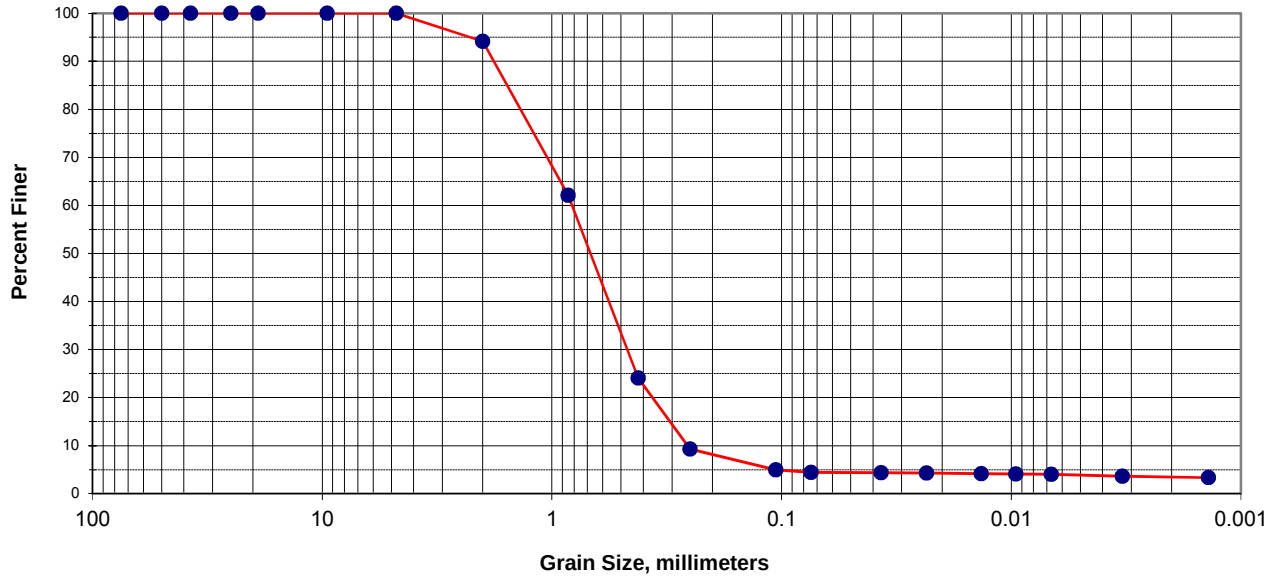
(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.
Swi = Initial Water Saturation as received prior to centrifuging at 1000xG, Soi = Initial NAPL Saturation as received prior to centrifuging at 1000xG.
Srw = Residual Water Saturation after centrifuging at 1000xG, Sor = Residual NAPL Saturation after centrifuging at 1000xG.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS Laboratories, Inc.

Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45712
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	79L21
Project No:	049066.01.01.04.00	**Depth, ft:**	20.4

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	5.8	94.2	5.8
0.0335	0.850	0.23	20	32.0	62.1	37.9
0.0166	0.420	1.25	40	38.0	24.1	75.9
0.0098	0.250	2.00	60	14.8	9.3	90.7
0.0042	0.106	3.24	140	4.3	5.0	95.0
0.0029	0.074	3.75	200	0.5	4.5	95.5
0.0015	0.037	4.76	Hydrometer	0.0	4.4	95.6
0.00092	0.023	5.42	Hydrometer	0.1	4.3	95.7
0.00053	0.013	6.21	Hydrometer	0.1	4.2	95.8
0.00038	0.0095	6.71	Hydrometer	0.1	4.1	95.9
0.00026	0.0067	7.22	Hydrometer	0.1	4.0	96.0
0.00013	0.0033	8.25	Hydrometer	0.4	3.7	96.3
0.00005	0.0014	9.50	Hydrometer	0.3	3.4	96.6
			"PAN"	3.4		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-1.18	0.0889	2.258
10	-0.84	0.0704	1.788
16	-0.61	0.0600	1.524
25	-0.26	0.0472	1.198
40	0.29	0.0322	0.817
50	0.56	0.0267	0.679
60	0.83	0.0222	0.564
75	1.23	0.0168	0.427
84	1.66	0.0124	0.316
90	1.97	0.0101	0.256
95	3.24	0.0042	0.106

Measure	Trask	Inman	Folk-Ward
Median, phi	0.56	0.56	0.56
Median, in.	0.0267	0.0267	0.0267
Median, mm	0.679	0.679	0.679
Mean, phi	0.30	0.53	0.54
Mean, in.	0.0320	0.0273	0.0271
Mean, mm	0.813	0.694	0.689
Sorting	1.674	1.134	1.236
Skewness	1.054	-0.028	0.093
Kurtosis	0.251	0.945	1.217
Grain Size Description (ASTM-USCS Scale)		Medium sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	5.8
Medium Sand	40	70.1
Fine Sand	200	19.6
Silt/Clay	<200	4.5
	Total	100

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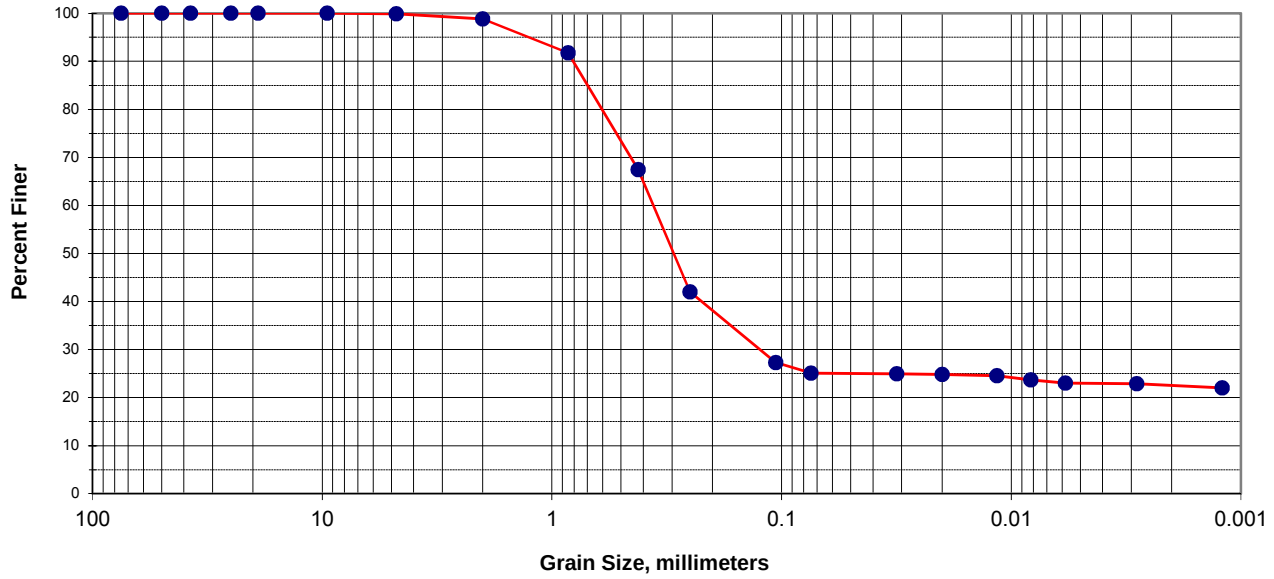
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45712
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	86L19.8
Project No:	049066.01.01.04.00	**Depth, ft:**	19.25

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.1	99.9	0.1
0.0787	2.00	-1.00	10	1.1	98.8	1.2
0.0335	0.850	0.23	20	7.1	91.7	8.3
0.0166	0.420	1.25	40	24.3	67.4	32.6
0.0098	0.250	2.00	60	25.4	42.0	58.0
0.0042	0.106	3.24	140	14.7	27.3	72.7
0.0029	0.074	3.75	200	2.2	25.1	74.9
0.0012	0.031	4.99	Hydrometer	0.1	25.0	75.0
0.00079	0.020	5.65	Hydrometer	0.2	24.8	75.2
0.00045	0.012	6.44	Hydrometer	0.3	24.6	75.4
0.00032	0.0082	6.93	Hydrometer	0.8	23.7	76.3
0.00023	0.0058	7.43	Hydrometer	0.7	23.0	77.0
0.00011	0.0028	8.46	Hydrometer	0.1	22.9	77.1
0.00005	0.0012	9.70	Hydrometer	0.9	22.0	78.0
			"PAN"	22.0		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.34	0.0497	1.263
10	0.31	0.0318	0.808
16	0.56	0.0267	0.679
25	0.93	0.0206	0.523
40	1.47	0.0142	0.361
50	1.76	0.0116	0.294
60	2.17	0.0088	0.222
75	4.65	0.0016	0.040
84			
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.76	1.76	1.76
Median, in.	0.0116	0.0116	0.0116
Median, mm	0.294	0.294	0.294
Mean, phi	1.83		
Mean, in.	0.0111		
Mean, mm	0.282		
Sorting	3.624		
Skewness	0.491		
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.1
Coarse Sand	10	1.1
Medium Sand	40	31.3
Fine Sand	200	42.4
Silt/Clay	<200	25.1
	Total	100

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CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

COMPANY: Black + Veatch

ADDRESS: 1120 Sanctuary Pkwy Alpharetta GA 30009 (CITY / ZIP CODE)

PROJECT MANAGER: Ed Hicks

email: (770)751-7517

PROJECT NAME: Cape Fear

PHONE NUMBER:

PROJECT NUMBER: 249066 -/16-

FAX NUMBER:

SITE LOCATION: Fayetteville, NC

SAMPLER SIGNATURE:

PO#:

TURNAROUND TIME: 24 HOURS ☐ 5 DAYS ☐ 72 HOURS ☐ NORMAL ☒

OTHER:

SAMPLE INTEGRITY (CHECK): INTACT ✓ TEMP(F) 11.4

PTS QUOTE NO.:

PTS FILE: 45712

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	DEPTH, FT	NUMBER OF SAMPLES	SOIL PROPERTIES PACKAGE	HYDRAULIC CONDUCTIVITY PACKAGE	PORE FLUID SATURATIONS PACKAGE	TCEQ/TNRCC PROPERTIES PACKAGE	CAPILLARITY PACKAGE	FLUID PROPERTIES PACKAGE	PHOTOLOG: CORE PHOTOGRAPHY	VAPOR TRANSPORT PACKAGE	POROSITY: TOTAL, AIR FILLED, WATER FILLED	POROSITY: EFFECTIVE, ASTM D425M	SPECIFIC GRAVITY, ASTM D854	BULK DENSITY (DRY), API RP40 or ASTM D2937	AIR PERMEABILITY, API RP40	HYDRAULIC CONDUCTIVITY, EPA9100/API RP40 or D5084	GRAIN SIZE DISTRIBUTION, ASTM D422 or 4464M	TOC: WALKLEY-BLACK	ATTERBERG LIMITS, ASTM D4318	VAPOR INTRUSION PACKAGE	FREE PRODUCT MOBILITY PACKAGE	Residual Saturation/Grain Size		COMMENTS
✓ 72L27M	12/10/15	1430	26-27																				X			
✓ 79L21	12/9/15	1500	20-21																					X		
✓ 86L19.8	12/10/15	1015	18.9-19.8																					X		

1. RELINQUISHED BY	2. RECEIVED BY	3. RELINQUISHED BY	4. RECEIVED BY
COMPANY: Black Veatch	COMPANY: PTS LABS	COMPANY:	COMPANY:
DATE: 12/10/15 TIME: 1730	DATE: 12/11/15 TIME: 10:50	DATE: TIME:	DATE: TIME:

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January 29, 2016

Ed Hicks
Black & Veatch Special Projects Corp.
1120 Sanctuary Pkwy., Ste. 200
Alpharetta, CA 30009

Re: PTS File No: 45735
Physical Properties Data
Cape Fear Site - DNAPL/LNAPL Analysis; 049066.01.01.04.00

Dear Mr. Hicks:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Cape Fear Site - DNAPL/LNAPL Analysis; 049066.01.01.04.00 project. All analyses were performed by applicable ASTM, EPA, or API methodologies. The cores remain in frozen storage and will be held indefinitely. Please note that core storage will be billed monthly beginning March 1, 2016.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please give me a call at (562) 347-2502.

Sincerely,
PTS Laboratories, Inc.

Michael Mark Brady, P.G.
Laboratory Director

Encl.

PTS Laboratories

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project Number: 049066.01.01.04.00

PTS File No: 45735
Client: Black & Veatch Special Projects Corp.

TEST PROGRAM - 20151223

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis w/ hydrometer	Free Product Mobility	Pore Fluid Saturation Package	3-Point Viscosity DNAPL			Residual Saturation by Water Drive	Comments
		Plugs:	Grab	Vert. 1.5"	Vert. 1.5"	ASTM D445, D1481			Vert. 1.5"	
Date Received: 20151216										
97L21.5	20.5-21.5	0.90	X		X					
97L27.5	26.5-27.5	0.65	X		X					
97L28.5	27.5-28.5	0.80	X		X					
97L35.5	34.5-35.5	0.70	X		X					
97L29	28-29	1.10		X						
82L7.9	7.3-7.9	0.60	X		X					
101L18.5	17.5-18.5	0.85	X		X					
101L29.5	28.5-29.5	0.85	X		X					
101L34	33.5-34	1.00	X		X					
57L22.5	21.5-22.5	0.85	X		X					
83L22	21-22	0.90	X		X					
83L38	37-38	0.75	X		X					
83L37.5	36.5-37.5	0.80	X		X					
RW07	N/A	RW				X				
RW08	N/A	RW				X				
83L39g	38.5-39	N/A	X							Jar sample
TOTALS:	13 cores	10.75	13	1	12	2				13

Laboratory Test Program Notes
Contaminant identification: _____

Standard TAT for basic analysis is 10 business days.

Samples received cryogenically preserved will be stored frozen at standard core storage rates from sample date of receipt. Core storage charges will be billed monthly or quarterly depending upon project.

Free Product Mobility Package: Applied centrifugal force demonstrates product mobility; includes residual saturations by Dean-Stark, total porosity, grain and dry bulk density.

Pore Fluid Saturation Package: API RP40 Dean-Stark Method: Includes initial pore fluid saturations, total porosity, air-filled porosity, grain density, dry bulk density and moisture content.

Soil from areas under California Exterior Quarantine will be handled as regulated domestic quarantine soil.

Geologic samples are exempt from quarantine; soil lower boundary is set at 91 cm (3 ft depth).

3-point viscosity includes viscosity and density at three temperatures (70, 100, 130°F).

OPTIONAL

Residual Saturation by Water Drive: Sample driven to residual saturation by water/NAPL displacement. Residual saturations by Dean-Stark extraction, total porosity, bulk and grain density.

PTS File No: 45735
Client: Black & Veatch Special Projects Corp.
Report Date: 01/29/16

PTS Laboratories

PHYSICAL PROPERTIES DATA - PORE FLUID SATURATIONS

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project No: 049066.01.01.04.00

		METHODS:	API RP 40 / ASTM D2216	API RP 40		API RP 40		API RP 40	
				DENSITY		POROSITY, %Vb (2)		PORE FLUID SATURATIONS, % Pv (3)	
SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENTATION (1)	MOISTURE CONTENT, % weight	DRY BULK, g/cc	GRAIN, g/cc	TOTAL	AIR FILLED	WATER	NAPL
97L21.5	21.05	V	18.3	1.56	2.65	41.0	12.5	66.8	2.9
97L27.5	27.0	V	22.8	1.51	2.64	42.8	8.5	73.5	6.6
97L28.5	28.0	V	20.7	1.50	2.64	43.3	12.5	66.2	5.0
97L35.5	34.8	V	15.6	1.65	2.64	37.6	12.3	56.2	11.1
82L7.9	7.65	V	15.3	1.78	2.64	32.8	5.7	80.5	2.2
101L18.5	17.85	V	14.2	1.55	2.65	41.4	19.4	52.1	1.1
101L29.5	29.3	V	14.3	1.71	2.65	35.7	11.5	63.6	4.3
101L34	33.8	V	21.9	1.52	2.64	42.4	9.4	69.1	8.6
57L22.5	22.3	V	17.2	1.67	2.64	36.6	7.9	76.5	1.8
83L22	21.6	V	21.2	1.44	2.65	45.7	15.4	61.0	5.2
83L38	37.35	V	21.9	1.46	2.66	45.0	13.0	70.0	1.3
83L37.5	36.9	V	18.7	1.61	2.65	39.4	9.6	69.8	5.8

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS File No: 45735
Client: Black & Veatch Special Projects Corp.
Report Date: 01/29/16

PTS Laboratories

FREE PRODUCT MOBILITY: INITIAL AND RESIDUAL SATURATIONS

(Centrifugal method: samples spun under air)

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project No: 049066.01.01.04.00

			METHODS:	API RP 40		API RP 40	ASTM D425M, DEAN-STARK			
							PORE FLUID SATURATIONS (3), % Pv			
		SAMPLE		DENSITY		TOTAL	Initial Fluid Saturations		After Centrifuge at 1000xG	
SAMPLE ID.	DEPTH, ft.	ORIENTATION (1)	ANALYSIS DATE	DRY BULK, g/cc	GRAIN, g/cc	POROSITY (2), %Vb	WATER (Swi) SATURATION	NAPL (Soi) SATURATION	WATER (Srw) SATURATION	NAPL (Sor) SATURATION
97L29	28.55	V	20160107	1.45	2.64	45.2	49.4	25.0	6.7	7.0

NOTE: Dark brown DNAPL produced. Produced water clear.

(1) Sample Orientation: H = horizontal; V = vertical; R = remold
(2) Total Porosity = all interconnected pore channels.
(3) Fluid density used to calculate pore fluid saturations: Water = 0.9996 g/cc, NAPL = 1.106 g/cc.
Swi = Initial Water Saturation as received prior to centrifuging at 1000xG, Soi = Initial NAPL Saturation as received prior to centrifuging at 1000xG.
Srw = Residual Water Saturation after centrifuging at 1000xG, Sor = Residual NAPL Saturation after centrifuging at 1000xG.
Vb = Bulk Volume, cc; Pv = Pore Volume, cc; ND = Not Detected

PTS Laboratories, Inc.

Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	97L21.5
Project No:	049066.01.01.04.00	**Depth, ft:**	21.2

SIEVE - HYDROMETER ANALYSIS

Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.7	99.3	0.7
0.187	4.76	-2.25	4	0.5	98.7	1.3
0.0787	2.00	-1.00	10	4.5	94.2	5.8
0.0335	0.850	0.23	20	17.7	76.5	23.5
0.0166	0.420	1.25	40	28.1	48.4	51.6
0.0098	0.250	2.00	60	22.3	26.1	73.9
0.0042	0.106	3.24	140	15.8	10.3	89.7
0.0029	0.074	3.75	200	2.3	7.9	92.1
0.0014	0.036	4.79	Hydrometer	0.5	7.4	92.6
0.00090	0.023	5.44	Hydrometer	0.8	6.6	93.4
0.00053	0.013	6.23	Hydrometer	0.8	5.8	94.2
0.00037	0.0095	6.72	Hydrometer	0.4	5.4	94.6
0.00026	0.0067	7.23	Hydrometer	0.4	4.9	95.1
0.00013	0.0033	8.26	Hydrometer	0.6	4.4	95.6
0.00005	0.0014	9.50	Hydrometer	0.2	4.1	95.9
			"PAN"	4.1		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-1.22	0.0918	2.331
10	-0.71	0.0643	1.633
16	-0.29	0.0481	1.222
25	0.29	0.0322	0.819
40	0.83	0.0221	0.562
50	1.19	0.0172	0.438
60	1.53	0.0136	0.346
75	2.08	0.0093	0.236
84	2.79	0.0057	0.145
90	3.29	0.0040	0.102
95	7.16	0.0003	0.007

Measure	Trask	Inman	Folk-Ward
Median, phi	1.19	1.19	1.19
Median, in.	0.0172	0.0172	0.0172
Median, mm	0.438	0.438	0.438
Mean, phi	0.92	1.25	1.23
Mean, in.	0.0208	0.0166	0.0168
Mean, mm	0.527	0.421	0.426
Sorting	1.863	1.539	2.039
Skewness	1.005	0.037	0.231
Kurtosis	0.190	1.723	1.913
Grain Size Description (ASTM-USCS Scale)		Medium sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	1.3
Coarse Sand	10	4.5
Medium Sand	40	45.8
Fine Sand	200	40.5
Silt/Clay	<200	7.9
	Total	100

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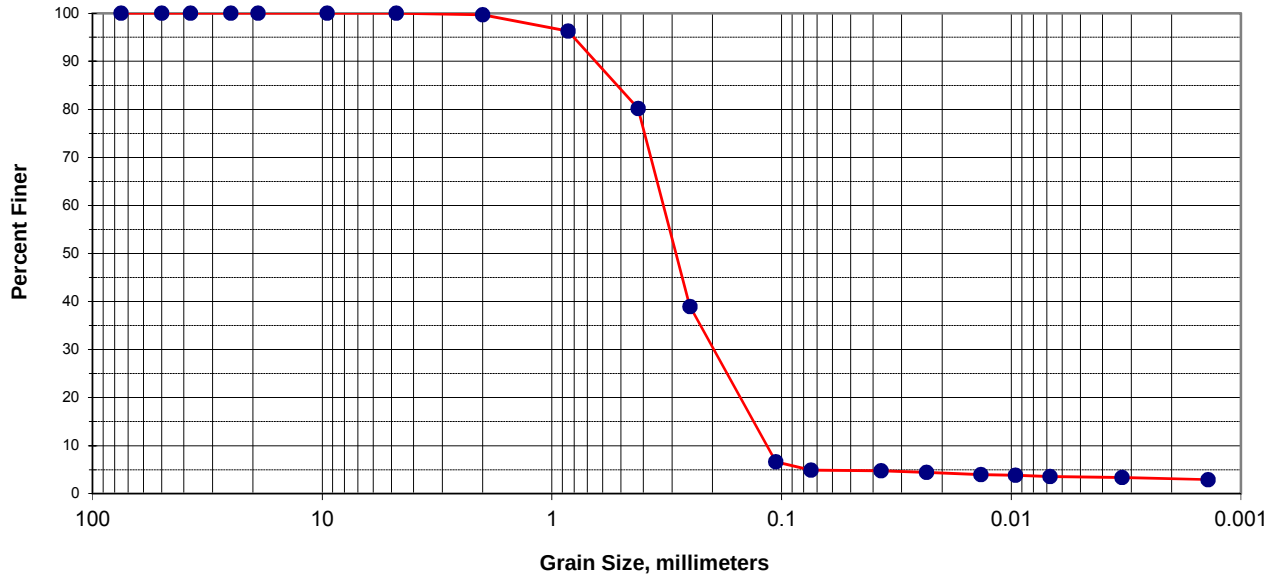
PTS Laboratories, Inc.

Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	97L27.5
Project No:	049066.01.01.04.00	**Depth, ft:**	27.0

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.3	99.7	0.3
0.0335	0.850	0.23	20	3.4	96.3	3.7
0.0166	0.420	1.25	40	16.1	80.2	19.8
0.0098	0.250	2.00	60	41.2	39.0	61.0
0.0042	0.106	3.24	140	32.3	6.6	93.4
0.0029	0.074	3.75	200	1.7	4.9	95.1
0.0015	0.037	4.76	Hydrometer	0.1	4.8	95.2
0.00092	0.023	5.42	Hydrometer	0.4	4.4	95.6
0.00053	0.014	6.21	Hydrometer	0.4	4.0	96.0
0.00038	0.0096	6.71	Hydrometer	0.2	3.8	96.2
0.00027	0.0068	7.20	Hydrometer	0.3	3.5	96.5
0.00013	0.0033	8.25	Hydrometer	0.2	3.4	96.6
0.00005	0.0014	9.49	Hydrometer	0.4	2.9	97.1
			"PAN"	2.9		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.32	0.0316	0.803
10	0.63	0.0254	0.646
16	1.01	0.0196	0.497
25	1.34	0.0155	0.394
40	1.62	0.0128	0.326
50	1.80	0.0113	0.287
60	1.98	0.0100	0.253
75	2.53	0.0068	0.173
84	2.88	0.0054	0.136
90	3.11	0.0046	0.116
95	3.72	0.0030	0.076

Measure	Trask	Inman	Folk-Ward
Median, phi	1.80	1.80	1.80
Median, in.	0.0113	0.0113	0.0113
Median, mm	0.287	0.287	0.287
Mean, phi	1.82	1.94	1.90
Mean, in.	0.0112	0.0102	0.0106
Mean, mm	0.283	0.260	0.269
Sorting	1.511	0.935	0.983
Skewness	0.907	0.154	0.141
Kurtosis	0.209	0.819	1.171
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.3
Medium Sand	40	19.5
Fine Sand	200	75.3
Silt/Clay	<200	4.9
	Total	100

PTS Laboratories, Inc.

Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	97L28.5
Project No:	049066.01.01.04.00	**Depth, ft:**	28.0

SIEVE - HYDROMETER ANALYSIS

Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.1	99.9	0.1
0.0335	0.850	0.23	20	11.3	88.6	11.4
0.0166	0.420	1.25	40	35.4	53.2	46.8
0.0098	0.250	2.00	60	30.5	22.7	77.3
0.0042	0.106	3.24	140	15.0	7.6	92.4
0.0029	0.074	3.75	200	1.0	6.6	93.4
0.0014	0.037	4.77	Hydrometer	0.7	5.9	94.1
0.00092	0.023	5.42	Hydrometer	0.5	5.4	94.6
0.00053	0.013	6.21	Hydrometer	0.5	4.9	95.1
0.00038	0.0096	6.71	Hydrometer	0.2	4.7	95.3
0.00027	0.0068	7.21	Hydrometer	0.3	4.4	95.6
0.00013	0.0033	8.25	Hydrometer	0.2	4.2	95.8
0.00005	0.0014	9.50	Hydrometer	0.3	3.9	96.1
			"PAN"	3.9		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.47	0.0544	1.382
10	0.08	0.0373	0.948
16	0.37	0.0306	0.776
25	0.62	0.0256	0.649
40	1.05	0.0190	0.481
50	1.33	0.0157	0.398
60	1.57	0.0132	0.336
75	1.94	0.0102	0.260
84	2.55	0.0067	0.171
90	3.04	0.0048	0.121
95	6.10	0.0006	0.015

Measure	Trask	Inman	Folk-Ward
Median, phi	1.33	1.33	1.33
Median, in.	0.0157	0.0157	0.0157
Median, mm	0.398	0.398	0.398
Mean, phi	1.14	1.46	1.41
Mean, in.	0.0179	0.0143	0.0148
Mean, mm	0.455	0.364	0.375
Sorting	1.580	1.092	1.541
Skewness	1.032	0.118	0.286
Kurtosis	0.235	2.005	2.039
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.1
Medium Sand	40	46.7
Fine Sand	200	46.6
Silt/Clay	<200	6.6
	Total	100

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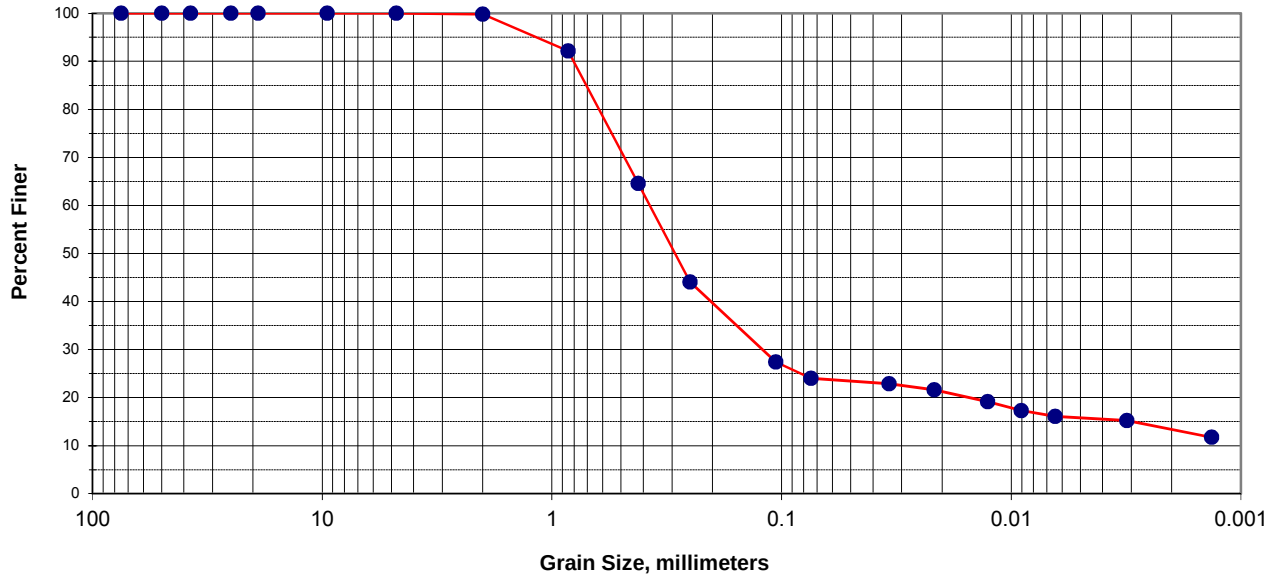
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	97L35.5
Project No:	049066.01.01.04.00	**Depth, ft:**	34.8

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.2	99.8	0.2
0.0335	0.850	0.23	20	7.7	92.1	7.9
0.0166	0.420	1.25	40	27.6	64.6	35.4
0.0098	0.250	2.00	60	20.5	44.1	55.9
0.0042	0.106	3.24	140	16.6	27.4	72.6
0.0029	0.074	3.75	200	3.4	24.0	76.0
0.0013	0.034	4.88	Hydrometer	1.2	22.9	77.1
0.00085	0.022	5.53	Hydrometer	1.2	21.6	78.4
0.00050	0.013	6.30	Hydrometer	2.5	19.2	80.8
0.00036	0.0090	6.79	Hydrometer	1.9	17.3	82.7
0.00025	0.0064	7.28	Hydrometer	1.2	16.1	83.9
0.00012	0.0031	8.32	Hydrometer	0.9	15.2	84.8
0.00005	0.0013	9.54	Hydrometer	3.5	11.7	88.3
			"PAN"	11.7		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.22	0.0460	1.168
10	0.31	0.0317	0.805
16	0.53	0.0272	0.690
25	0.87	0.0216	0.549
40	1.42	0.0147	0.374
50	1.78	0.0114	0.290
60	2.30	0.0080	0.203
75	3.61	0.0032	0.082
84	7.36	0.0002	0.006
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.78	1.78	1.78
Median, in.	0.0114	0.0114	0.0114
Median, mm	0.290	0.290	0.290
Mean, phi	1.66	3.95	3.22
Mean, in.	0.0124	0.0026	0.0042
Mean, mm	0.315	0.065	0.107
Sorting	2.585	3.411	
Skewness	0.731	0.634	
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.2
Medium Sand	40	35.2
Fine Sand	200	40.5
Silt/Clay	<200	24.0
	Total	100

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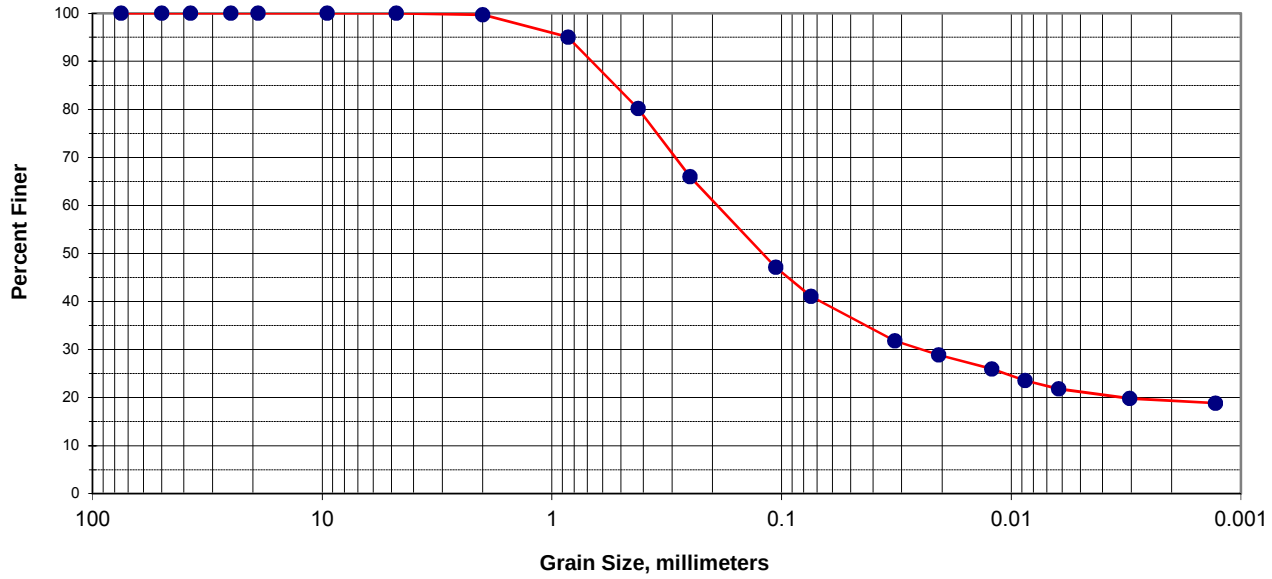
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	82L7.9
Project No:	049066.01.01.04.00	**Depth, ft:**	7.65

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.3	99.7	0.3
0.0335	0.850	0.23	20	4.7	95.0	5.0
0.0166	0.420	1.25	40	14.8	80.2	19.8
0.0098	0.250	2.00	60	14.2	66.0	34.0
0.0042	0.106	3.24	140	18.8	47.1	52.9
0.0029	0.074	3.75	200	6.1	41.1	58.9
0.0013	0.032	4.96	Hydrometer	9.3	31.8	68.2
0.00081	0.021	5.60	Hydrometer	2.9	28.9	71.1
0.00048	0.012	6.36	Hydrometer	2.9	25.9	74.1
0.00034	0.0087	6.84	Hydrometer	2.4	23.6	76.4
0.00024	0.0062	7.33	Hydrometer	1.8	21.8	78.2
0.00012	0.0030	8.36	Hydrometer	2.0	19.8	80.2
0.00005	0.0013	9.60	Hydrometer	0.9	18.9	81.1
			"PAN"	18.9		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.23	0.0335	0.850
10	0.58	0.0264	0.670
16	0.99	0.0198	0.504
25	1.52	0.0137	0.348
40	2.39	0.0075	0.191
50	3.05	0.0048	0.121
60	3.89	0.0027	0.067
75	6.55	0.0004	0.011
84			
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	3.05	3.05	3.05
Median, in.	0.0048	0.0048	0.0048
Median, mm	0.121	0.121	0.121
Mean, phi	2.48		
Mean, in.	0.0071		
Mean, mm	0.179		
Sorting	5.713		
Skewness	0.504		
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.3
Medium Sand	40	19.5
Fine Sand	200	39.1
Silt/Clay	<200	41.1
	Total	100

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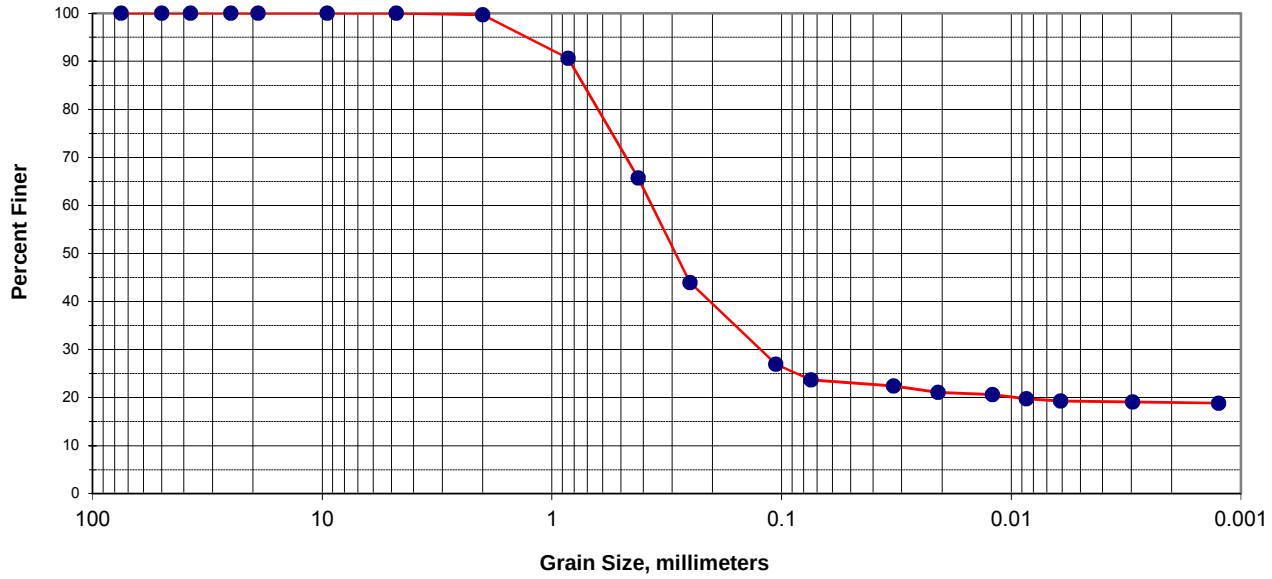
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	101L18.5
Project No:	049066.01.01.04.00	**Depth, ft:**	17.85

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.3	99.7	0.3
0.0335	0.850	0.23	20	9.1	90.6	9.4
0.0166	0.420	1.25	40	24.9	65.7	34.3
0.0098	0.250	2.00	60	21.8	44.0	56.0
0.0042	0.106	3.24	140	17.0	26.9	73.1
0.0029	0.074	3.75	200	3.2	23.7	76.3
0.0013	0.033	4.94	Hydrometer	1.3	22.4	77.6
0.00082	0.021	5.59	Hydrometer	1.3	21.1	78.9
0.00047	0.012	6.37	Hydrometer	0.4	20.6	79.4
0.00034	0.0086	6.86	Hydrometer	0.9	19.7	80.3
0.00024	0.0061	7.36	Hydrometer	0.4	19.3	80.7
0.00012	0.0030	8.40	Hydrometer	0.2	19.1	80.9
0.00005	0.0012	9.65	Hydrometer	0.3	18.8	81.2
			"PAN"	18.8		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.36	0.0506	1.286
10	0.26	0.0329	0.835
16	0.50	0.0278	0.705
25	0.87	0.0215	0.547
40	1.45	0.0144	0.367
50	1.79	0.0114	0.289
60	2.29	0.0081	0.205
75	3.54	0.0034	0.086
84			
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.79	1.79	1.79
Median, in.	0.0114	0.0114	0.0114
Median, mm	0.289	0.289	0.289
Mean, phi	1.66		
Mean, in.	0.0124		
Mean, mm	0.316		
Sorting	2.525		
Skewness	0.749		
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.3
Medium Sand	40	34.0
Fine Sand	200	42.0
Silt/Clay	<200	23.7
	Total	100

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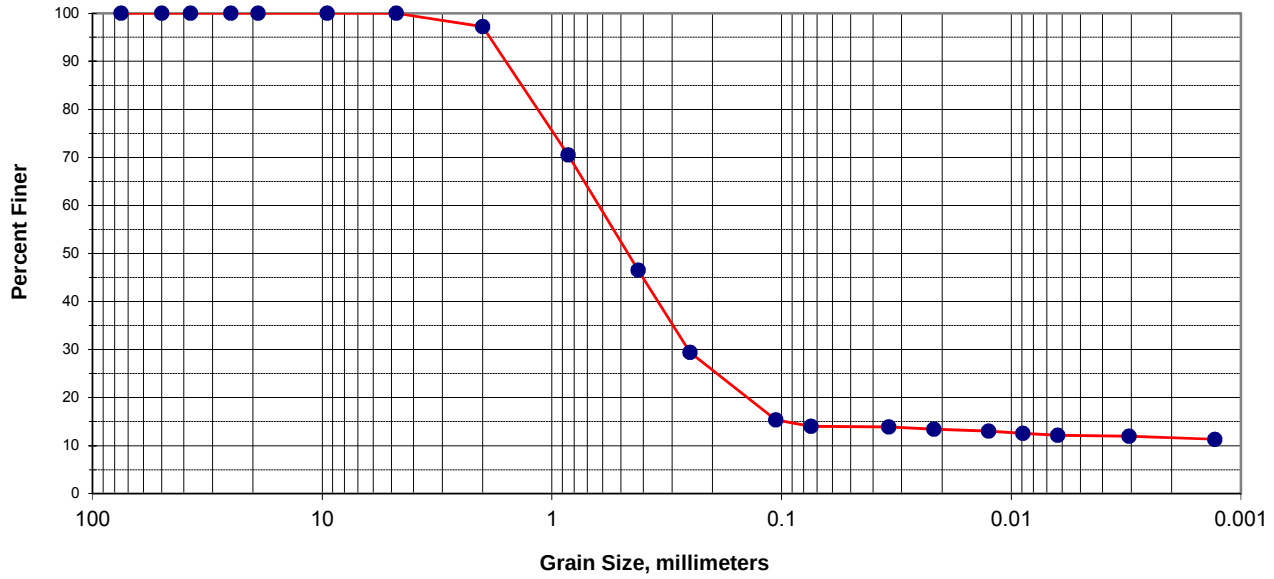
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	101L29.5
Project No:	049066.01.01.04.00	**Depth, ft:**	29.3

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	2.8	97.2	2.8
0.0335	0.850	0.23	20	26.7	70.5	29.5
0.0166	0.420	1.25	40	23.9	46.5	53.5
0.0098	0.250	2.00	60	17.1	29.4	70.6
0.0042	0.106	3.24	140	14.0	15.4	84.6
0.0029	0.074	3.75	200	1.3	14.0	86.0
0.0013	0.034	4.87	Hydrometer	0.2	13.9	86.1
0.00085	0.022	5.53	Hydrometer	0.4	13.4	86.6
0.00049	0.013	6.32	Hydrometer	0.4	13.0	87.0
0.00035	0.0089	6.81	Hydrometer	0.4	12.6	87.4
0.00025	0.0063	7.32	Hydrometer	0.4	12.2	87.8
0.00012	0.0031	8.35	Hydrometer	0.2	12.0	88.0
0.00005	0.0013	9.59	Hydrometer	0.7	11.3	88.7
			"PAN"	11.3		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.90	0.0734	1.863
10	-0.67	0.0625	1.588
16	-0.39	0.0516	1.310
25	0.03	0.0387	0.982
40	0.68	0.0246	0.625
50	1.10	0.0183	0.466
60	1.54	0.0136	0.345
75	2.39	0.0075	0.191
84	3.18	0.0043	0.110
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.10	1.10	1.10
Median, in.	0.0183	0.0183	0.0183
Median, mm	0.466	0.466	0.466
Mean, phi	0.77	1.40	1.30
Mean, in.	0.0231	0.0150	0.0160
Mean, mm	0.587	0.380	0.406
Sorting	2.268	1.786	
Skewness	0.930	0.164	
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	2.8
Medium Sand	40	50.7
Fine Sand	200	32.5
Silt/Clay	<200	14.0
	Total	100

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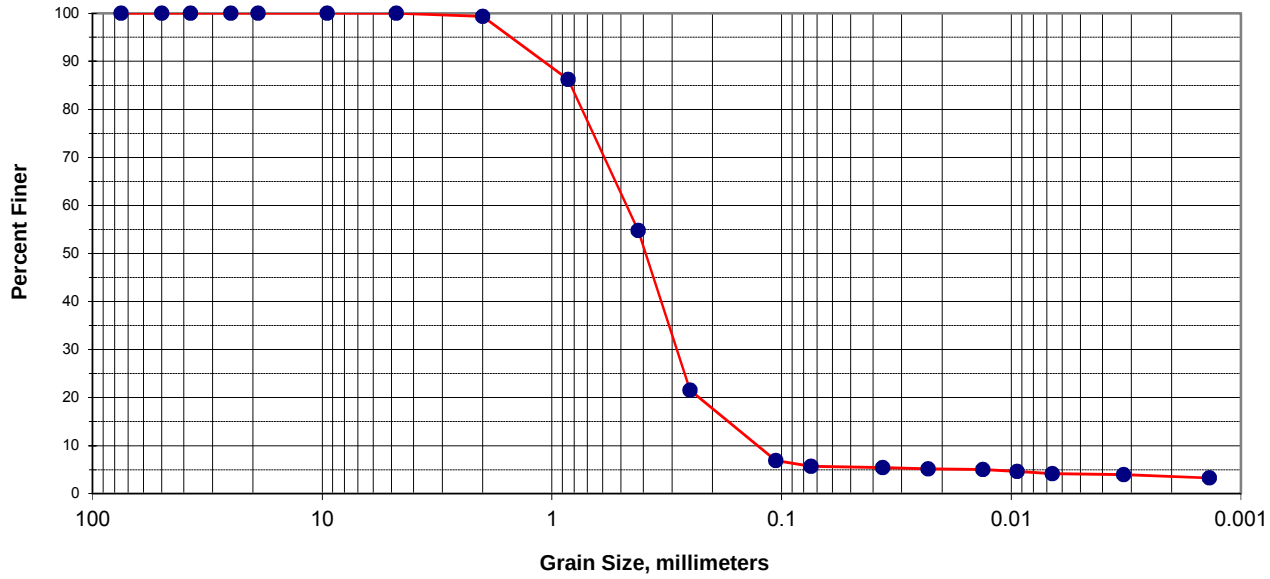
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	101L34
Project No:	049066.01.01.04.00	**Depth, ft:**	33.8

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.6	99.4	0.6
0.0335	0.850	0.23	20	13.1	86.3	13.7
0.0166	0.420	1.25	40	31.5	54.8	45.2
0.0098	0.250	2.00	60	33.2	21.6	78.4
0.0042	0.106	3.24	140	14.7	6.9	93.1
0.0029	0.074	3.75	200	1.2	5.7	94.3
0.0014	0.036	4.78	Hydrometer	0.2	5.4	94.6
0.00091	0.023	5.44	Hydrometer	0.3	5.2	94.8
0.00052	0.013	6.23	Hydrometer	0.2	5.0	95.0
0.00037	0.0094	6.73	Hydrometer	0.3	4.7	95.3
0.00026	0.0066	7.24	Hydrometer	0.5	4.1	95.9
0.00013	0.0032	8.27	Hydrometer	0.2	4.0	96.0
0.00005	0.0014	9.51	Hydrometer	0.7	3.3	96.7
			"PAN"	3.3		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.59	0.0592	1.503
10	-0.12	0.0427	1.085
16	0.31	0.0318	0.808
25	0.60	0.0260	0.661
40	1.08	0.0186	0.472
50	1.36	0.0154	0.390
60	1.58	0.0131	0.334
75	1.92	0.0104	0.264
84	2.47	0.0071	0.180
90	2.98	0.0050	0.127
95	6.25	0.0005	0.013

Measure	Trask	Inman	Folk-Ward
Median, phi	1.36	1.36	1.36
Median, in.	0.0154	0.0154	0.0154
Median, mm	0.390	0.390	0.390
Mean, phi	1.11	1.39	1.38
Mean, in.	0.0182	0.0150	0.0151
Mean, mm	0.462	0.382	0.385
Sorting	1.583	1.081	1.577
Skewness	1.070	0.028	0.230
Kurtosis	0.207	2.162	2.116
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.6
Medium Sand	40	44.6
Fine Sand	200	49.1
Silt/Clay	<200	5.7
	Total	100

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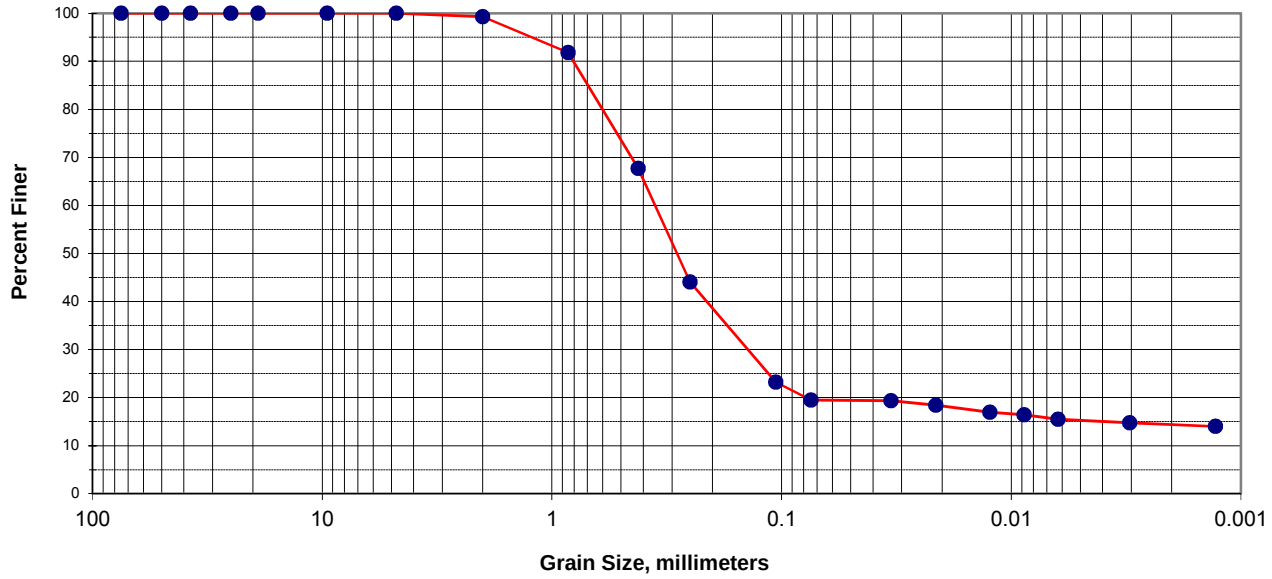
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	57L22.5
Project No:	049066.01.01.04.00	**Depth, ft:**	22.3

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.7	99.3	0.7
0.0335	0.850	0.23	20	7.4	91.9	8.1
0.0166	0.420	1.25	40	24.2	67.7	32.3
0.0098	0.250	2.00	60	23.6	44.1	55.9
0.0042	0.106	3.24	140	20.8	23.2	76.8
0.0029	0.074	3.75	200	3.7	19.5	80.5
0.0013	0.033	4.90	Hydrometer	0.1	19.4	80.6
0.00084	0.021	5.56	Hydrometer	1.0	18.4	81.6
0.00049	0.012	6.33	Hydrometer	1.5	16.9	83.1
0.00035	0.0088	6.83	Hydrometer	0.5	16.5	83.5
0.00025	0.0063	7.32	Hydrometer	1.0	15.5	84.5
0.00012	0.0030	8.36	Hydrometer	0.7	14.8	85.2
0.00005	0.0013	9.60	Hydrometer	0.8	14.0	86.0
			"PAN"	14.0		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.29	0.0481	1.222
10	0.31	0.0317	0.805
16	0.56	0.0266	0.676
25	0.94	0.0205	0.520
40	1.49	0.0140	0.355
50	1.81	0.0112	0.285
60	2.24	0.0083	0.211
75	3.13	0.0045	0.114
84	7.05	0.0003	0.008
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.81	1.81	1.81
Median, in.	0.0112	0.0112	0.0112
Median, mm	0.285	0.285	0.285
Mean, phi	1.66	3.81	3.14
Mean, in.	0.0125	0.0028	0.0045
Mean, mm	0.317	0.071	0.113
Sorting	2.137	3.245	
Skewness	0.855	0.616	
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.7
Medium Sand	40	31.6
Fine Sand	200	48.2
Silt/Clay	<200	19.5
	Total	100

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Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	83L22
Project No:	049066.01.01.04.00	**Depth, ft:**	21.7

SIEVE - HYDROMETER ANALYSIS

Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.0	100.0	0.0
0.0335	0.850	0.23	20	1.5	98.5	1.5
0.0166	0.420	1.25	40	26.1	72.4	27.6
0.0098	0.250	2.00	60	43.0	29.4	70.6
0.0042	0.106	3.24	140	22.9	6.5	93.5
0.0029	0.074	3.75	200	1.2	5.3	94.7
0.0014	0.037	4.78	Hydrometer	0.1	5.2	94.8
0.00091	0.023	5.43	Hydrometer	0.2	5.0	95.0
0.00053	0.013	6.23	Hydrometer	0.2	4.8	95.2
0.00037	0.0095	6.72	Hydrometer	0.3	4.5	95.5
0.00026	0.0067	7.22	Hydrometer	0.7	3.8	96.2
0.00013	0.0033	8.26	Hydrometer	0.2	3.6	96.4
0.00005	0.0014	9.50	Hydrometer	0.8	2.8	97.2
			"PAN"	2.8		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	0.37	0.0304	0.773
10	0.57	0.0266	0.676
16	0.80	0.0226	0.575
25	1.15	0.0178	0.451
40	1.47	0.0142	0.362
50	1.64	0.0126	0.321
60	1.82	0.0112	0.284
75	2.24	0.0083	0.212
84	2.72	0.0060	0.151
90	3.05	0.0048	0.121
95	5.38	0.0009	0.024

Measure	Trask	Inman	Folk-Ward
Median, phi	1.64	1.64	1.64
Median, in.	0.0126	0.0126	0.0126
Median, mm	0.321	0.321	0.321
Mean, phi	1.59	1.76	1.72
Mean, in.	0.0130	0.0116	0.0119
Mean, mm	0.331	0.295	0.303
Sorting	1.458	0.962	1.239
Skewness	0.964	0.125	0.309
Kurtosis	0.215	1.601	1.884
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Trask Median)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.0
Medium Sand	40	27.6
Fine Sand	200	67.2
Silt/Clay	<200	5.3
	Total	100

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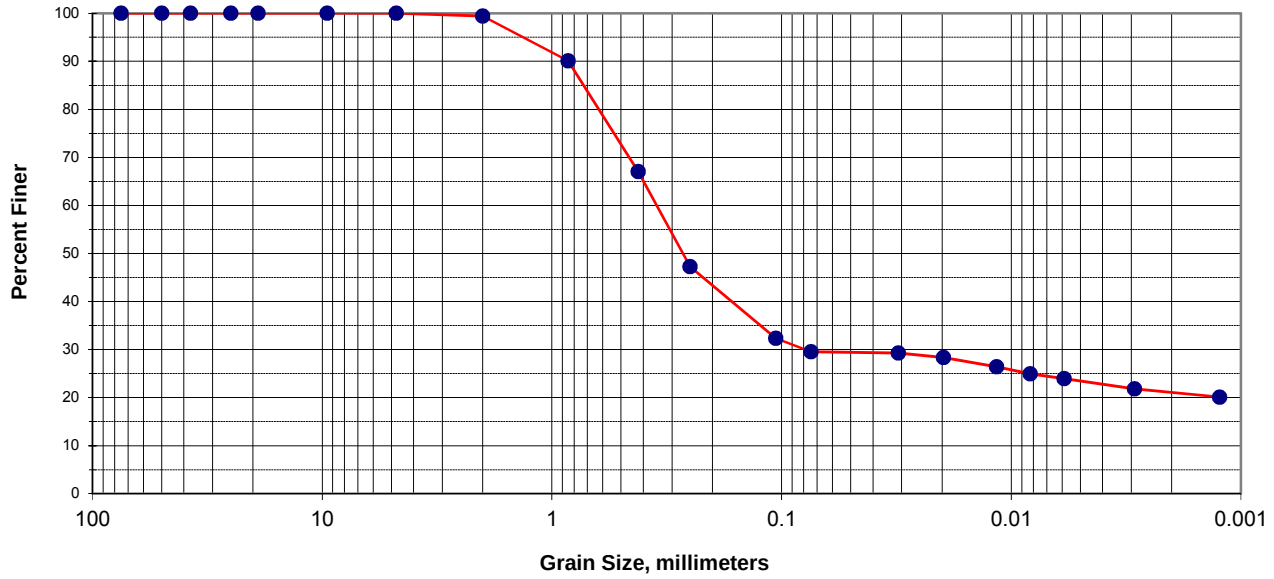
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	83L38
Project No:	049066.01.01.04.00	**Depth, ft:**	37.35

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.6	99.4	0.6
0.0335	0.850	0.23	20	9.3	90.1	9.9
0.0166	0.420	1.25	40	23.1	67.0	33.0
0.0098	0.250	2.00	60	19.7	47.3	52.7
0.0042	0.106	3.24	140	14.9	32.4	67.6
0.0029	0.074	3.75	200	2.8	29.6	70.4
0.0012	0.031	5.01	Hydrometer	0.3	29.3	70.7
0.00078	0.020	5.66	Hydrometer	1.0	28.3	71.7
0.00046	0.012	6.43	Hydrometer	1.9	26.4	73.6
0.00033	0.0083	6.92	Hydrometer	1.5	24.9	75.1
0.00023	0.0059	7.41	Hydrometer	1.0	24.0	76.0
0.00011	0.0029	8.43	Hydrometer	2.1	21.9	78.1
0.00005	0.0012	9.66	Hydrometer	1.7	20.1	79.9
			"PAN"	20.1		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.41	0.0525	1.333
10	0.24	0.0334	0.847
16	0.50	0.0278	0.706
25	0.90	0.0211	0.536
40	1.52	0.0138	0.349
50	1.90	0.0106	0.268
60	2.60	0.0065	0.164
75	6.90	0.0003	0.008
84			
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	1.90	1.90	1.90
Median, in.	0.0106	0.0106	0.0106
Median, mm	0.268	0.268	0.268
Mean, phi	1.88		
Mean, in.	0.0107		
Mean, mm	0.272		
Sorting	8.003		
Skewness	0.250		
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.6
Medium Sand	40	32.4
Fine Sand	200	37.5
Silt/Clay	<200	29.6
	Total	100

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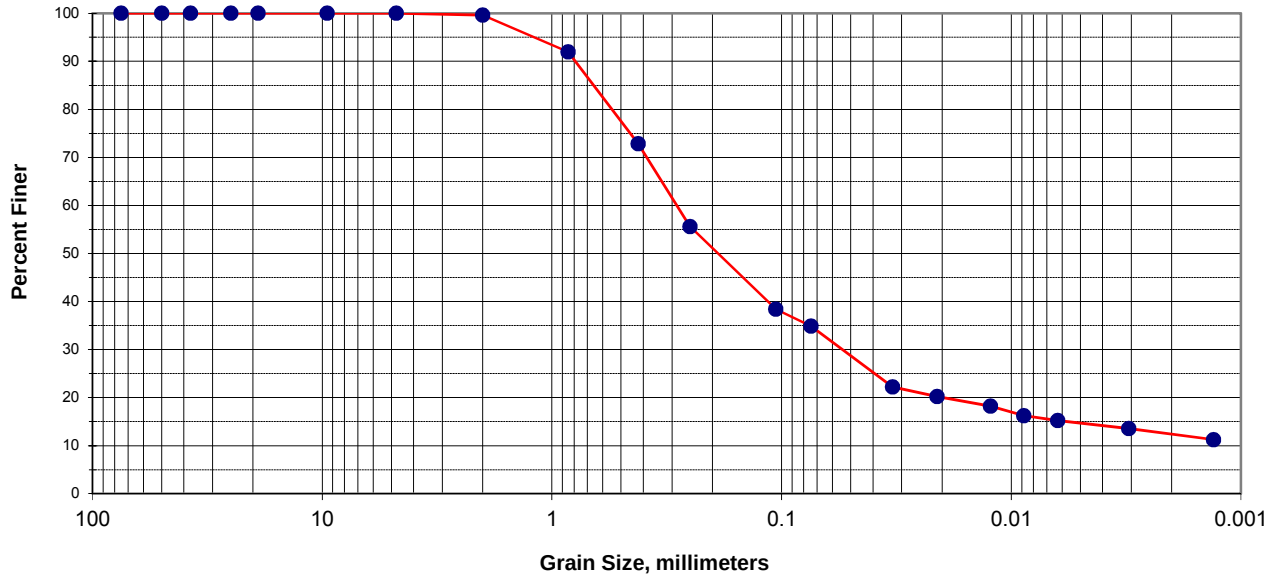
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	83L37.5
Project No:	049066.01.01.04.00	**Depth, ft:**	36.9

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.4	99.6	0.4
0.0335	0.850	0.23	20	7.7	91.9	8.1
0.0166	0.420	1.25	40	19.1	72.8	27.2
0.0098	0.250	2.00	60	17.3	55.6	44.4
0.0042	0.106	3.24	140	17.2	38.4	61.6
0.0029	0.074	3.75	200	3.5	34.9	65.1
0.0013	0.033	4.93	Hydrometer	12.7	22.2	77.8
0.00083	0.021	5.57	Hydrometer	2.0	20.2	79.8
0.00049	0.012	6.34	Hydrometer	2.0	18.2	81.8
0.00035	0.0088	6.82	Hydrometer	2.0	16.2	83.8
0.00025	0.0063	7.32	Hydrometer	1.0	15.2	84.8
0.00012	0.0031	8.34	Hydrometer	1.7	13.6	86.4
0.00005	0.0013	9.57	Hydrometer	2.3	11.3	88.7
			"PAN"	11.3		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	-0.26	0.0470	1.194
10	0.34	0.0312	0.791
16	0.66	0.0250	0.634
25	1.14	0.0179	0.455
40	1.81	0.0112	0.286
50	2.40	0.0075	0.189
60	3.12	0.0045	0.115
75	4.67	0.0015	0.039
84	6.94	0.0003	0.008
90			
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	2.40	2.40	2.40
Median, in.	0.0075	0.0075	0.0075
Median, mm	0.189	0.189	0.189
Mean, phi	2.02	3.80	3.33
Mean, in.	0.0097	0.0028	0.0039
Mean, mm	0.247	0.072	0.099
Sorting	3.404	3.144	
Skewness	0.707	0.445	
Kurtosis			

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.4
Medium Sand	40	26.8
Fine Sand	200	37.9
Silt/Clay	<200	34.9
	Total	100

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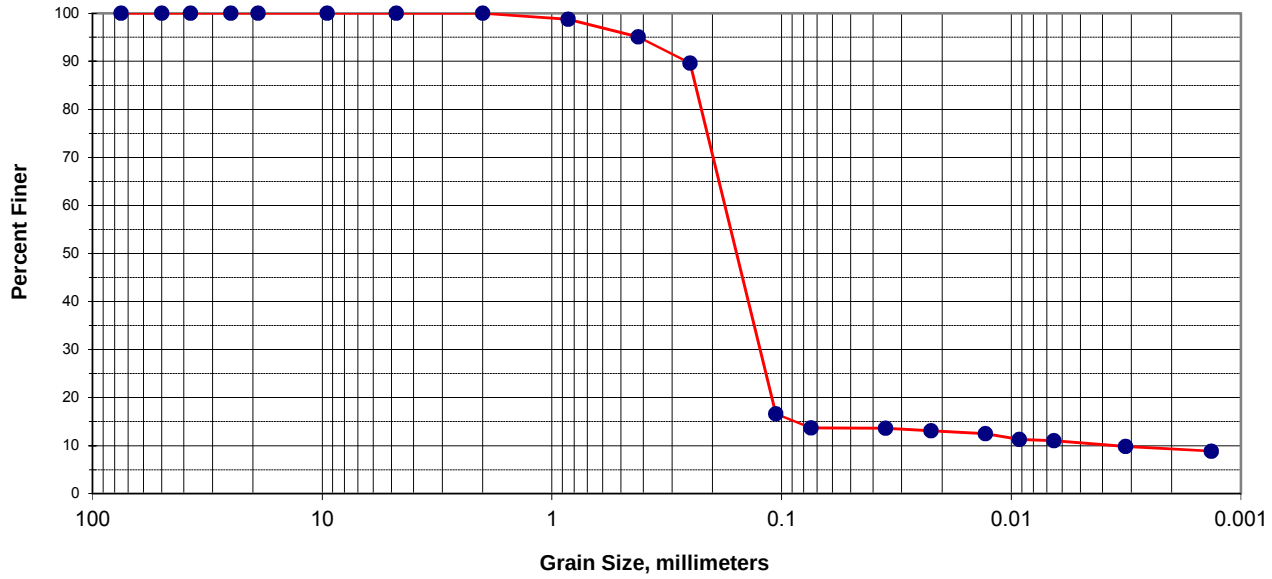
Particle Size Distribution - ASTM D422: Sieve/Hydrometer

Client:	Black & Veatch Special Projects Corp.	**PTS File No:**	45735
Project:	Cape Fear Site - DNAPL/LNAPL Analysis	**Sample ID:**	83L39g
Project No:	049066.01.01.04.00	**Depth, ft:**	38.5-39

SIEVE - HYDROMETER ANALYSIS



Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Incremental Percent Finer	Percent Finer	Cumulative Percent Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1"	0.0	100.0	0.0
0.748	19.0	-4.25	3/4"	0.0	100.0	0.0
0.374	9.50	-3.25	3/8"	0.0	100.0	0.0
0.187	4.76	-2.25	4	0.0	100.0	0.0
0.0787	2.00	-1.00	10	0.0	100.0	0.0
0.0335	0.850	0.23	20	1.3	98.7	1.3
0.0166	0.420	1.25	40	3.7	95.1	4.9
0.0098	0.250	2.00	60	5.4	89.6	10.4
0.0042	0.106	3.24	140	73.0	16.6	83.4
0.0029	0.074	3.75	200	2.9	13.7	86.3
0.0014	0.035	4.83	Hydrometer	0.1	13.6	86.4
0.00088	0.022	5.48	Hydrometer	0.5	13.1	86.9
0.00051	0.013	6.27	Hydrometer	0.6	12.5	87.5
0.00036	0.0092	6.76	Hydrometer	1.2	11.3	88.7
0.00026	0.0065	7.26	Hydrometer	0.2	11.0	89.0
0.00013	0.0032	8.30	Hydrometer	1.2	9.8	90.2
0.00005	0.0013	9.54	Hydrometer	1.0	8.9	91.1
			"PAN"	8.9		100.0
TOTALS				100.0		100.0

Cumulative Percent greater than (retained)			
Weight percent	Phi Value	Particle Size Inches	Particle Size Millimeters
5	1.26	0.0164	0.418
10	1.95	0.0102	0.259
16	2.10	0.0092	0.234
25	2.25	0.0083	0.210
40	2.50	0.0069	0.176
50	2.67	0.0062	0.157
60	2.84	0.0055	0.140
75	3.10	0.0046	0.117
84	3.34	0.0039	0.098
90	8.16	0.0001	0.004
95			

Measure	Trask	Inman	Folk-Ward
Median, phi	2.67	2.67	2.67
Median, in.	0.0062	0.0062	0.0062
Median, mm	0.157	0.157	0.157
Mean, phi	2.61	2.72	2.70
Mean, in.	0.0064	0.0060	0.0060
Mean, mm	0.164	0.152	0.153
Sorting	1.341	0.624	
Skewness	1.000	0.077	
Kurtosis	0.183		

Grain Size Description (ASTM-USCS Scale)	Fine sand (based on Trask Median)

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.0
Coarse Sand	10	0.0
Medium Sand	40	4.9
Fine Sand	200	81.4
Silt/Clay	<200	13.7
	Total	100

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PTS File No: 45735
Client: Black & Veatch Special Projects Corp.
Report Date: 01/29/16

VISCOSITY, DENSITY, and SPECIFIC GRAVITY DATA

(METHODOLOGY: ASTM D445, ASTM D1481, API RP40)

Project Name: Cape Fear Site - DNAPL/LNAPL Analysis
Project No: 049066.01.01.04.00

SAMPLE ID	MATRIX	TEMPERATURE, °F	SPECIFIC GRAVITY	DENSITY, g/cc	VISCOSITY	
					centistokes	centipoise
RW07	NAPL	70	1.106	1.104	23.6	26.1
		100	1.100	1.092	10.8	11.8
		130	1.095	1.080	6.01	6.49
RW08	NAPL	70	1.109	1.107	30.8	34.1
		100	1.102	1.095	13.3	14.5
		130	1.098	1.083	7.09	7.67

QUALITY CONTROL DATA

Date: 01/06/16
FLUID TYPE: Cannon® CVS S3
TEMPERATURE, °F: 70
DENSITY, MEASURED: 0.8631
DENSITY, PUBLISHED: 0.8631
RPD: 0.00
VISCOSITY, MEASURED: 4.61
VISCOSITY, PUBLISHED: 4.54
RPD: 1.51
CVS Lot #: 15201

CVS = Certified Viscosity Standard

PTS Laboratories, Inc.

CHAIN OF CUSTODY RECORD

COMPANY: Black + Veatch

ADDRESS: 1120 Sanctuary Pkwy Ste. 200 CITY: Alpharetta GA ZIP CODE: 30009

PROJECT MANAGER: Ed Hicks email: hicksec@bv.com

PROJECT NAME: Cape Fear PHONE NUMBER: 770 521 8141

PROJECT NUMBER: 049066/16-0114 FAX NUMBER:

SITE LOCATION: Fayetteville, NC

SAMPLER SIGNATURE:

PO#:

TURNAROUND TIME: 24 HOURS ☐ 5 DAYS ☐ 72 HOURS ☐ NORMAL ☒

OTHER:

SAMPLE INTEGRITY (CHECK): INTACT ✓ TEMP(F) -17.5

PTS QUOTE NO.:

PTS FILE: 45735

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	DEPTH, FT	NUMBER OF SAMPLES	SOIL PROPERTIES PACKAGE	HYDRAULIC CONDUCTIVITY PACKAGE	PORE FLUID SATURATIONS PACKAGE	TCEQ/TNRCC PROPERTIES PACKAGE	CAPILLARITY PACKAGE	FLUID PROPERTIES PACKAGE	PHOTOLOG: CORE PHOTOGRAPHY	VAPOR TRANSPORT PACKAGE	POROSITY: TOTAL, AIR FILLED, WATER FILLED	POROSITY: EFFECTIVE, ASTM D425M	SPECIFIC GRAVITY, ASTM D854	BULK DENSITY (DRY), API RP40 or ASTM D2937	AIR PERMEABILITY, API RP40	HYDRAULIC CONDUCTIVITY, EPA9100/API RP40 or D5084	GRAIN SIZE DISTRIBUTION, ASTM D422 or 4464M	TOC: WALKLEY-BLACK	ATTERBERG LIMITS, ASTM D4318	VAPOR INTRUSION PACKAGE	FREE PRODUCT MOBILITY PACKAGE	Residual Sat. w/ Grain Size		COMMENTS
✓ 97L21.5	12/11/15	~~11~~ 1200 (PTS)	~~21-22~~ (PTS) 20.5-21.5	1																				X		
✓ 97L27.5	12/11/15	1207	26.5-27.5	1																				X		
✓ 97L28.5	12/11/15	1205	27.5-28.5	1																				X		
✓ 97L35.5	12/11/15	1215	34.5-35.5	1																				X		
✓ 97L29	12/11/15	1210	28-29	1																			X			
✓ 82L7.9	12/11/15	1450	7.3-7.9	1																				X		
✓ 101L18.5	12/11/15	1610	17.5-18.5	1																				X		
✓ 101L29.5	12/11/15	1620	28.5-29.5	1																				X		
✓ 101L34	12/11/15	1645	33.5-34	1																				X		
✓ 57L22.5	12/12/15	915	21.5-22.5	1																				X		
✓ 83L22	12/12/15	1145	21-22	1																				X		

1. RELINQUISHED BY	2. RECEIVED BY	3. RELINQUISHED BY	4. RECEIVED BY
COMPANY: Black + Veatch	COMPANY: PTS LABS	COMPANY:	COMPANY:
DATE: 12/15/15 TIME: 1400	DATE: 12/16/15 TIME: 15:00	DATE: TIME:	DATE: TIME:

PTS Laboratories, Inc. • 8100 Secura Way • Santa Fe Springs, CA 90670 • Phone (562) 347-2500 • Fax (562) 279-1150

PTS Laboratories, Inc.

CHAIN OF CUSTODY RECORD

COMPANY: Black + Veatch

ADDRESS: 1120 Sanctuary Pkwy Ste 200 | CITY: Alpharetta | ZIP CODE: GA 30009

PROJECT MANAGER: Ed Hicks | email: hicksec@bv.com

PROJECT NAME: Cape Fear | PHONE NUMBER: 770 521 8141

PROJECT NUMBER: 049066 / 16-0114 | FAX NUMBER:

SITE LOCATION: Fayetteville, NC

SAMPLER SIGNATURE:

PO#:

TURNAROUND TIME: 24 HOURS ☐ 5 DAYS ☐ 72 HOURS ☐ NORMAL ☒

OTHER:

SAMPLE INTEGRITY (CHECK): INTACT ✓ TEMP(F) -17.5

PTS QUOTE NO.:

PTS FILE: 45735

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	DEPTH, FT	NUMBER OF SAMPLES	SOIL PROPERTIES PACKAGE	HYDRAULIC CONDUCTIVITY PACKAGE	PORE FLUID SATURATIONS PACKAGE	TCEQ/TNRCC PROPERTIES PACKAGE	CAPILLARITY PACKAGE	FLUID PROPERTIES PACKAGE	PHOTOLOG: CORE PHOTOGRAPHY	VAPOR TRANSPORT PACKAGE	POROSITY: TOTAL, AIR FILLED, WATER FILLED	POROSITY: EFFECTIVE, ASTM D425M	SPECIFIC GRAVITY, ASTM D854	BULK DENSITY (DRY), API RP40 or ASTM D2937	AIR PERMEABILITY, API RP40	HYDRAULIC CONDUCTIVITY, EPA9100/API RP40 or D5084	GRAIN SIZE DISTRIBUTION, ASTM D422 or 4464M	TOC: WALKLEY-BLACK	ATTERBERG LIMITS, ASTM D4318	VAPOR INTRUSION PACKAGE	FREE PRODUCT MOBILITY PACKAGE	Residual Sat w/ Grain Size	DNAPL Viscosity	COMMENTS
✓ 83L38	12/12/15	1300	37-38	1																				X		
✓ 83L37.5	12/12/15	1305	36.5-37.5	1																				X		
✓ RW07	12/12/15	1420	recovery well	1																					X	
✓ RW08	12/12/15	1515	recovery well	1																					X	
✓ 83L39g	12/12/15	1300	38.5-39	1															X							

1. RELINQUISHED BY	2. RECEIVED BY	3. RELINQUISHED BY	4. RECEIVED BY
COMPANY: Black + Veatch	COMPANY: PTS LABS	COMPANY:	COMPANY:
DATE: 12/15/15 TIME: 1400	DATE: 12/16/15 TIME: 15:00	DATE: TIME:	DATE: TIME:

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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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

February 24, 2016

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 16-0114, Cape Fear Wood Preserving
Superfund Remedial

FROM: Nancy Seabolt
Office of Quality Assurance Chemist

THRU: Ray Terhune, Acting Chief
Office of Quality Assurance

TO: Hilary Thornton

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 Office of Quality Assurance. 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:	Accreditations:
Semi Volatile Organics (SVOA)		
Semivolatile organic compounds	CLP BNA (Soil)	
Semivolatile organic compounds	CLP BNA (Water)	
SPLP SemiVolatiles (SPLPS)		
SPLP SemiVolatiles	Contract SOW (Soil)	

Report Narrative for Work Order: C160301

Site Name: Cape Fear Wood Preserving, Fayetteville, NC
CLP Case No. 45848, ELEMENT Sample Nos. C160301-01 through C160301-48
C160302-01–03 (PES only)

Organic Analysis: Chemtech Consulting Group, Mountainside, NJ

The ESAT Work Team reviewed data for 47 soil samples and one Equipment Rinse Blank analyzed for Semivolatile Extractables including SIM (Selective Ion Monitoring) on selected samples per CLP Statement of Work SOM02.3. The soil samples were also analyzed using the Synthetic Precipitation Leaching Procedure (SPLP) per CLP Statement of Work SOM02.3.

The analytical results were reported in seven sample delivery groups (SDGs) by the laboratory. In addition to the field samples, the laboratory analyzed three performance evaluation samples (PESs) for evaluating the laboratory's performance with using the methods.

The samples were collected between 12/09/15 and 12/13/15 and were received by the laboratory between 12/11/15 and 12/16/15. The final data package was received on 01/07/16 by the USEPA Office of Quality Assurance, Region 4 SESD.

The laboratory satisfied all technical holding time limits.

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/QC-2). Deuterated Monitoring Compounds (DMCs) were used as surrogates in each sample for GC/MS analysis to monitor extraction efficiency.

Data quality factors requiring qualification of results are discussed below:

Semivolatile Extractables (Full Scan – Equipment Rinse Blank/SPLPs)

1. The laboratory scored within warning limits for all spiked analytes in the PES except for 2-nitroaniline which was scored as action low. All 2-nitroaniline results in the rinse blank and SPLP analyses were non-detects, and were qualified "UR" (CLP27).

2. Percent recoveries of the DMC 1,4-Dioxane-d8 were less than 10% in samples C160301-04 and 42; the not detected results for 1,4-dioxane in these samples were qualified "UR" (QS-4).

3. Percent recoveries of the DMC 1,4-Dioxane-d8 were less than Quality Control (QC) limits in samples C160301-01, 02, 03, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 45, 46, 47 and 48. The 1,4-dioxane results in these samples, all non-detects, were qualified "UJ" (QS-3).

4. The DMC 4-Chloroaniline-d4 was not recovered in samples C160301-14, 15, 30, 31, 33, 34, 38, 40, 41 and 42. Percent recoveries for were 0%. The results for 4-chloroaniline in these samples, all non-detects, were qualified "UR" (QS-4).

5. Percent recoveries of the DMC 4-Chloroaniline-d4 were less than 10%, but within QC limits, in samples C160301-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 32, 36, 37, 39, 43, 44, 45, 46, 47 and 48. The results for 4-Chloroaniline in these samples, all non-detects, were qualified "UJ" (QS-4).

6. The DMC 4,6-Dinitro-2-methylphenol-d2 was not recovered in samples C160301-13 and 27. Percent recoveries were 0%. The 4,6-dinitro-2-methylphenol results in these samples, all non-detects, were qualified "UR" (QS-4).

7. Percent recoveries of the DMC 4-Nitrophenol-d4 were less than 10% in sample C160301-30. The not detected results for the associated compounds [2-nitroaniline; 3-nitroaniline; 2,4-dinitrophenol; 4-nitrophenol; and 4-nitroaniline] in this sample were qualified "UR" (QS-4).

8. The recoveries of Acenaphthene were less than the lower QC limits in the Matrix Spike/Matrix Spike Duplicate (MS/MSD) performed for sample C160301-31. The positive result for Acenaphthene in sample C160301-31was qualified "J" (QM-1).

9. Further, the precision and recovery of Acenaphthene were below QC limits in the MS/MSD performed for sample C160301-32. The positive result for Acenaphthene in this sample was qualified "J" (QM-1, QM-4).

10. The following analyte results exceeded the calibration range in the original analyses, but were not detected in the dilutions. Results are reported from the original analysis and qualified "J" (CLP02).
    1,1-Biphenyl in samples C160301-04 and 27;
    2,4-Dimethylphenol and 1,1-Biphenyl in samples C160301-12 and 47.

Semivolatile Extractable (Full Scan - Soils)

1. Due to the high concentration of several analytes, samples C160301-03, 05, 12, 26, 27, 35, 46 and 47 were analyzed as medium level samples. Results for those analytes were reported from the medium level sample analyses.

2. The DMC 4-Chloroaniline-d4 was not recovered in sample C160301-26. The percent recovery was 0%. The not detected result for 4-Chloroaniline in this sample was qualified "UR" (QS-4).

3. Percent recoveries of the DMC 1,4-Dioxane-d8 were less than the lower QC limits in samples C160301-03, 04, 05, 07, 12, 13, 17, 23, 24, 26, 27, 35, 45, 46 and 47 . The results for 1,4-Dioxane in these samples, all non-detects, were qualified "UJ" (QS-3).

4. Percent recoveries of the DMC 4,6-Dinitro-2-methylphenol-d2 were less than the lower QC limits and less than 10% in samples C160301-03, 05, 08, 09, 17, 26, 35, 46 and 47. The results for 4,6-Dinitro-2-methylphenol in these samples, all non-detects, were qualified "UR" (QS-4).

5. Percent recovery of the DMC Dimethylphthalate-d6 was less than 10% in sample C160301-47. The not detected results for the associated compounds [Caprolactam; Dimethylphthalate; Diethylphthalate; Di-n-butylphthalate; Butylbenzylphthalate; Bis(2-ethylhexylphthalate; and Di-n-octylphthalate] in this sample were qualified "UR" (QS-4).

6. The results for Benzo(a)anthracene and Chrysene in sample C160301-12 exceeded the calibration range in the original medium level analysis but were not detected in the medium level dilution. These analytes were reported from the original medium level analyses and qualified "J" (CLP02).

7. The full scan results for sample C160301-25 differ significantly from the much lower SIM results. The positive full scan results were reported.

8. The Internal Standard area response for Phenanthrene-d10 in sample C160301-47 was less than the lower QC limits. Results for the associated compounds in this sample were qualified "J" (QI-1).

Semivolatile Extractables (SIM- Equipment Rinse Blank)

The laboratory encountered poor instrument response for Pentachlorophenol in the continuing calibration associated with sample C160301-01. To avoid the "R" qualifier, the not detected full scan results for this compound at the higher reporting limit was reported.

Semivolatile Extractables (SIM- Soils)

The laboratory encountered poor instrument response for Pentachlorophenol in continuing calibrations associated with samples C160301-06, 14, 15, 19, 20, 21, 22, 25, 29, 30, 31, 32, 33, 34, 38, 39, and 42. To avoid the "R" qualifier, the not detected full scan results for this compound at the higher reporting limit were reported. The positive SIM results for Pentachlorophenol in samples C160301-40 and 41 were reported and qualified "J" (CLP01, CLP32).

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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SAMPLES INCLUDED IN THIS REPORT

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
EBL94	C160301-01		9N26	Equipment Rinse Blank	12/9/15 10:10
101L29.5	C160301-02		9N53	Surface Soil	12/11/15 16:20
101L34	C160301-03		9N54	Surface Soil	12/11/15 16:45
19L32	C160301-04		9N70	Surface Soil	12/13/15 13:25
57L17	C160301-05		9N72	Surface Soil	12/12/15 09:10
57L22.5	C160301-06		9N59	Surface Soil	12/12/15 09:15
57L31.5	C160301-07		9N60	Surface Soil	12/12/15 09:25
72L12.5	C160301-08		9N40	Surface Soil	12/10/15 14:00
72L14	C160301-09		9N41	Surface Soil	12/10/15 14:05
72L16	C160301-10		9N42	Surface Soil	12/10/15 14:10
72L20	C160301-11		9N43	Surface Soil	12/10/15 14:15
72L27	C160301-12		9N44	Surface Soil	12/10/15 14:35
76AL17.3	C160301-13		9N61	Surface Soil	12/12/15 10:50
76AL34	C160301-14		9N62	Surface Soil	12/12/15 11:00
77L33	C160301-15		9N47	Surface Soil	12/11/15 08:45
79L19	C160301-16		9N28	Surface Soil	12/9/15 14:50
79L21	C160301-17		9N29	Surface Soil	12/9/15 15:00
79AL31	C160301-18		9N71	Surface Soil	12/13/15 14:20
80L16.9	C160301-19		9N30	Surface Soil	12/9/15 15:30
80L18.9	C160301-20		9N31	Surface Soil	12/9/15 15:35
80L29.3	C160301-21		9N32	Surface Soil	12/9/15 15:50
81L09	C160301-22		9N33	Surface Soil	12/10/15 08:25
81L22.5	C160301-23		9N34	Surface Soil	12/10/15 08:30
81L31.5	C160301-24		9N35	Surface Soil	12/10/15 08:45
82L7.9	C160301-25		9N52	Surface Soil	12/11/15 14:50
83L21.5	C160301-26		9N63	Surface Soil	12/12/15 11:35
83L22.2	C160301-27		9N73	Surface Soil	12/12/15 11:40
83L39	C160301-28		9N64	Surface Soil	12/12/15 12:45
83AL40	C160301-29		9N65	Surface Soil	12/13/15 09:45
83AL43	C160301-30		9N66	Surface Soil	12/13/15 10:20
83AL48	C160301-31		9N67	Surface Soil	12/13/15 10:25
83AL50	C160301-32		9N68	Surface Soil	12/13/15 10:30
83AL70	C160301-33		9N69	Surface Soil	12/13/15 11:05
86L06	C160301-34		9N36	Surface Soil	12/10/15 11:10

86L19.8	C160301-35	9N37	Surface Soil	12/10/15 10:15
86L30.3	C160301-36	9N38	Surface Soil	12/10/15 10:30
986L30.3	C160301-37	9N39	Surface Soil	12/10/15 10:30
89L13.5	C160301-38	9N55	Surface Soil	12/12/15 08:10
89L16.5	C160301-39	9N56	Surface Soil	12/12/15 08:15
89L20.5	C160301-40	9N57	Surface Soil	12/12/15 08:20
989L20.5	C160301-41	9N58	Surface Soil	12/12/15 08:20
94L4.5	C160301-42	9N27	Surface Soil	12/9/15 11:15
95L30.5	C160301-43	9N45	Surface Soil	12/10/15 15:30
95L31.5	C160301-44	9N46	Surface Soil	12/10/15 15:35
97L21.5	C160301-45	9N48	Surface Soil	12/11/15 12:00
97L28.5	C160301-46	9N50	Surface Soil	12/11/15 12:05
97L35.5	C160301-47	9N51	Surface Soil	12/11/15 12:15
997L21.5	C160301-48	9N49	Surface Soil	12/11/15 12:00

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
CLP02	Concentration reported is greater than the highest standard on calibration curve
CLP15	TIC Results Reported as Identified by Lab - IDs Not Verified
CLP16	Initial Calibration Response Erratic
CLP27	PE sample recovery scored as action low.
CLP32	Continuing Calibration Relative Response Outside Method Control Limits
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
QC-2	Analyte concentration high in continuing calibration verification standard
QI-1	Internal standard was outside of method control limits.
QM-1	Matrix Spike Recovery less than method control limits
QM-4	Matrix Precision outside method control limits
QS-3	Surrogate recovery is lower than established control limits.
QS-4	Surrogate 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.

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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: EBL94 **Lab ID: C160301-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 9N26 CHM**

Date Collected: 12/9/15 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	2.0	U, J, QS-3	ug/L	2.0	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	10	U, J, CLP16	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	5.0	U, R, CLP27	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	10	U, J, QS-4	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: EBL94 **Lab ID: C160301-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 9N26 CHM**

Date Collected: 12/9/15 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	10	U, J, QC-1	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
86-73-7	Fluorene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: EBL94 **Lab ID: C160301-01** **MD No:**

Station ID: **Matrix: Equipment Rinse Blank** **D No: 9N26 CHM**

Date Collected: 12/9/15 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	5.0	U	ug/L	5.0	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
108-95-2	Phenol	10	U	ug/L	10	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	0.10	U	ug/L	0.10	12/16/15	12/28/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	5	U	ug/L	5	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID: C160301-02** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N53 CHM**

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	850		ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	2900		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U, J, QC-1	ug/kg dry	80	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	630		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	12000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	350	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID: C160301-02** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N53 CHM**

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	17000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	570		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	2500		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	2400		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	650		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1200		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	130	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	390		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	2100		ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	2100		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	56	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	12000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	420		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	20000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	14000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID:** C160301-02 **MD No:**

Station ID: L101 **Matrix:** Surface Soil **D No:** 9N53 CHM

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	140	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	31000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	38000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	280	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	12000		ug/kg dry	5100	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	8000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
3710-23-4	Naphthalene, 2-(1-methylethenyl)-	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	3000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
108-68-9	Phenol, 3,5-dimethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID: C160301-02** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N53 CHM**

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID:** C160301-02 **MD No:**

Station ID: L101 **Matrix:** Surface Soil **D No:** 9N53 CHM

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.030		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.059		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.034		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.43		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.015		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.57		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID:** C160301-02 **MD No:**
Station ID: L101 **Matrix:** Surface Soil **D No:** 9N53 CHM

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.020		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0024	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.014		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.12		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.31		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.034		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.32		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L29.5 **Lab ID: C160301-02** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N53 CHM**

Date Collected: 12/11/15 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	2.7		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.42		mg/L	0.25	12/22/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.0043	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.018		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.05	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
135-19-3	2-Naphthalenol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
6939-33-9	7-Methyl-1-naphthol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.1	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	0.008	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.03	J, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	230	J, CLP01	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	34000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	81	U, J, QC-1, QS-3	ug/kg dry	81	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	470		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, R, QS-4	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	290000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	120	J, CLP01	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	380000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	3000		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	29000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	26000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	6700		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	11000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	1100		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	5100	J, CLP01	ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	18000		ug/kg dry	12000	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	22000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	460		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	260000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	240		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	170000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	310000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	1300		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	690000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	860000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	71	J, CLP01	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	95000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
33543-31-6	Fluoranthene, 2-methyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
496-11-7	Indane	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.013		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.12	J, CLP01	mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.037		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.64		mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0077	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.63		mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.033		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0046	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.022		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.50	J, CLP01	mg/L	1.0	12/22/15	12/31/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.35	J, CLP01	mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.034		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.32	J, CLP01	mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	4.9		mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.37	J, CLP01	mg/L	0.50	12/22/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.0016	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.018		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1076-17-1	1,2,3,6,7,8-Hexahydro-as-indacene	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1470-94-6	1H-Inden-5-ol, 2,3-dihydro-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
16096-32-5	1H-Indole, 4-methyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
7469-77-4	1-Naphthalenol, 2-methyl-	0.07	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
86-77-1	2-Dibenzofuranol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
91902-42-0	4-Cyclohepta-2,4,6-trienyl-phenol	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	0.009	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
5590-14-7	Cyclopropanecarbonitrile, 2-phenyl	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.06	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 101L34 **Lab ID: C160301-03** **MD No:**

Station ID: L101 **Matrix: Surface Soil** **D No: 9N54 CHM**

Date Collected: 12/11/15 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
575-43-9	Naphthalene, 1,6-dimethyl-	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.06	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
101-53-1	Phenol, 4-(phenylmethyl)-	0.008	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.06	J, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4400	J, CLP01	ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	81	U, J, QS-3	ug/kg dry	81	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	70	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	18000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	26000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	570		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	3100		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3100		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	850		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1500		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	180	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	570		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	2700		ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	2700		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	77	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	18000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	28000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
86-73-7	Fluorene	23000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	200	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	52000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	60000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	18000		ug/kg dry	6200	12/16/15	12/22/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	900	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
644-08-6	1,1-Biphenyl, 4-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
192-97-2	Benzo[e]pyrene	500	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2131-42-2	Naphthalene, 1,4,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
571-61-9	Naphthalene, 1,5-dimethyl-	500	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	500	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	900	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.0020	J, CLP01	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.098	J, CLP02	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, R, QS-4	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.011		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.79		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0012	J, CLP01	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.80		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.029		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0026	J, CLP01	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.016		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.55	J, CLP01	mg/L	1.0	12/21/15	12/31/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.42	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.032		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.38	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID:** C160301-04 **MD No:**

Station ID: L19 **Matrix:** Surface Soil **D No:** 9N70 CHM

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	6.8		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.43	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.018		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
86-77-1	2-Dibenzofuranol	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
69605-90-9	3-Biphenylmethanol	0.009	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
91902-42-0	4-Cyclohepta-2,4,6-trienyl-phenol	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
6939-33-9	7-Methyl-1-naphthol	0.03	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
2523-37-7	9H-Fluorene, 9-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.009	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.03	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
496-11-7	Indane	0.07	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
95-13-6	Indene	0.4	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 19L32 **Lab ID: C160301-04** **MD No:**

Station ID: L19 **Matrix: Surface Soil** **D No: 9N70 CHM**

Date Collected: 12/13/15 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
581-40-8	Naphthalene, 2,3-dimethyl-	0.05	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.06	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
612-60-2	Quinoline, 7-methyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	12000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	81	U, J, QS-3	ug/kg dry	81	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U, R, QS-4	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	38000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	53000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	470		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	9300		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	10000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	2400		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	4900	J, CLP01	ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	580		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	1500		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	3300		ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	8700		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	210		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	41000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	70000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	39000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	630		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	84000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	240000		ug/kg dry	30000	12/16/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	42000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	800	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2131-41-1	Naphthalene, 1,4,5-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
571-61-9	Naphthalene, 1,5-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	800	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	900	J, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.060		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/26/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.19		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.28		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID:** C160301-05 **MD No:**
Station ID: L57 **Matrix:** Surface Soil **D No:** 9N72 CHM

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0075		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
120-12-7	Anthracene	0.011		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
86-74-8	Carbazole	0.12		mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.15		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.039		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
86-73-7	Fluorene	0.13	J, CLP01	mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B

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Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.1		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.22		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
129-00-0	Pyrene	0.022		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.07	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.07	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
934-10-1	3-Phenylbut-1-ene	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
622-76-4	Benzene, 1-butynyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
14315-14-1	Benzo[b]thiophene, 5-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.006	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
95-13-6	Indene	0.08	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	0.005	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.3	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L17 **Lab ID: C160301-05** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N72 CHM**

Date Collected: 12/12/15 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
581-40-8	Naphthalene, 2,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID: C160301-06** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N59 CHM**

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U, J, QC-1	ug/kg dry	80	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	82		ug/kg dry	20	12/16/15	12/30/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID: C160301-06** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N59 CHM**

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	84		ug/kg dry	20	12/16/15	12/30/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	2.4	J, CLP01	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	9.2		ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	6.4		ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	56	J, CLP01	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.8		ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	67	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	500		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	56	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	46		ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID: C160301-06** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N59 CHM**

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.0	U	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	450		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	160		ug/kg dry	20	12/16/15	12/30/15	CLP SOM02.3 BS
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	40	J, QC-2	ug/kg dry	4.0	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID:** C160301-06 **MD No:**

Station ID: L57 **Matrix:** Surface Soil **D No:** 9N59 CHM

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.054		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.28		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.29		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID:** C160301-06 **MD No:**

Station ID: L57 **Matrix:** Surface Soil **D No:** 9N59 CHM

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.019		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.010		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.024		mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.16	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.023		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.17	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L22.5 **Lab ID:** C160301-06 **MD No:**

Station ID: L57 **Matrix:** Surface Soil **D No:** 9N59 CHM

Date Collected: 12/12/15 9:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.8		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.21	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.013		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
1855-47-6	1-Isopropenylnaphthalene	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
90-99-3	Benzene, 1,1-(chloromethylene)bis	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
620-14-4	Benzene, 1-ethyl-3-methyl-	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.009	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.05	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.08	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.008	J, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID: C160301-07** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N60 CHM**

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	2600		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QC-1, QS-3	ug/kg dry	82	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	9100		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID: C160301-07** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N60 CHM**

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	15000		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	400		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	1900		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	2000		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	600		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	990		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	130	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	380		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	1300		ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	1700		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	51	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	9800		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	380		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	17000		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	11000		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID: C160301-07** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N60 CHM**

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	130	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	25000		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	33000		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	9600		ug/kg dry	5200	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
643-93-6	1,1-Biphenyl, 3-methyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	6000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID:** C160301-07 **MD No:**

Station ID: L57 **Matrix:** Surface Soil **D No:** 9N60 CHM

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.061		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.21	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.38		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID:** C160301-07 **MD No:**
Station ID: L57 **Matrix:** Surface Soil **D No:** 9N60 CHM

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.016		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.013		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.11		mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.17	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.041		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.18	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID: C160301-07** **MD No:**

Station ID: L57 **Matrix: Surface Soil** **D No: 9N60 CHM**

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.3		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.29		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.024		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
2235-15-6	1(2H)-Acenaphthylenone	0.008	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
643-58-3	1,1-Biphenyl, 2-methyl-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.06	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.09	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.009	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 57L31.5 **Lab ID:** C160301-07 **MD No:**

Station ID: L57 **Matrix:** Surface Soil **D No:** 9N60 CHM

Date Collected: 12/12/15 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
17719-70-9	Vinyl trans-cinnamate	0.008	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID:** C160301-08 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N40 CHM

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	6000		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U, J, QC-1	ug/kg dry	79	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	19000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID:** C160301-08 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N40 CHM

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	31000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	1300		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	8000		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4300		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1900		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	280		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	660		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	5600		ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	3900		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	94	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	22000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	430		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	36000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	26000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID: C160301-08** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N40 CHM**

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	270		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	43000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	74000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	19000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
243-17-4	11H-Benzo[b]fluorene	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	8000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
611-32-5	Quinoline, 8-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID:** C160301-08 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N40 CHM

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.061		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.21	J, CLP01	mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.36		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID:** C160301-08 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N40 CHM

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.025		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.014		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.22	J, CLP01	mg/L	0.50	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.17	J, CLP01	mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.042		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.18	J, CLP01	mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID:** C160301-08 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N40 CHM

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.2		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.26		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.019		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.1	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
2234-20-0	2,4-Dimethylstyrene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.07	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.06	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1455-18-1	3-Methylbenzothiophene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.1	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L12.5 **Lab ID: C160301-08** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N40 CHM**

Date Collected: 12/10/15 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
582-16-1	Naphthalene, 2,7-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID: C160301-09** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N41 CHM**

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	5600		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U	ug/kg dry	79	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	19000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID: C160301-09** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N41 CHM**

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	30000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	1200		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	6600		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4200		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1800		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	270		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	650		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	4800		ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	3600		ug/kg dry	1000	12/11/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	98	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	22000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	520		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	36000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	25000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID: C160301-09** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N41 CHM**

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	280		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	45000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	72000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	51	J, CLP01	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	19000		ug/kg dry	6000	12/11/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	8000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
91-62-3	Quinoline, 6-methyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	900	J, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID:** C160301-09 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N41 CHM

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.047		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.17		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.29		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID:** C160301-09 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N41 CHM

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.021		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.011		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.16		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.14	J, CLP01	mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.034		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.14	J, CLP01	mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID:** C160301-09 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N41 CHM

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.98		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.21		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.016		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.1	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.06	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.09	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1195-14-8	Benzo[b]thiophene, 2-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
14315-11-8	Benzo[b]thiophene, 4-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
4265-25-2	Benzofuran, 2-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L14 **Lab ID: C160301-09** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N41 CHM**

Date Collected: 12/10/15 14:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID: C160301-10** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N42 CHM**

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	17		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	69	J, CLP01	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	2200		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U	ug/kg dry	80	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	69	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	9100		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID: C160301-10** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N42 CHM**

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	14000		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	590		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	2600		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	1600		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	450		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	740		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	110	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	300		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	2700		ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	1400		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	47	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	9600		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	520		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	15000	J, QC-2	ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	12000		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID: C160301-10** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N42 CHM**

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	110	J, CLP01	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	27000		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	31000		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	72	J, CLP01	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	8000		ug/kg dry	2000	12/11/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
238-84-6	11H-Benzo[a]fluorene	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	4000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	2000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID: C160301-10** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N42 CHM**

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
91-22-5	Quinoline	2000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
611-32-5	Quinoline, 8-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID:** C160301-10 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N42 CHM

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.0024	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.041		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0033	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.16		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0013	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.26		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID:** C160301-10 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N42 CHM

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.017		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.012		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.16		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.12	J, CLP01	mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.043		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.14	J, CLP01	mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID:** C160301-10 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N42 CHM

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.0		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.23		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.020		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
29338-49-6	1,1-Diphenyl-2-propanol	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.09	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.05	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.06	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
14315-11-8	Benzo[b]thiophene, 4-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
16587-47-6	Benzo[b]thiophene, 6-methyl-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.1	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
939-27-5	Naphthalene, 2-ethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L16 **Lab ID: C160301-10** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N42 CHM**

Date Collected: 12/10/15 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
90-43-7	o-Hydroxybiphenyl	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID: C160301-11** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N43 CHM**

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	68	J, CLP01	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	1100		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	83	U, J, QC-1	ug/kg dry	83	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	63	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	4300		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID: C160301-11** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N43 CHM**

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	5800		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	280		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	880		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	800		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	230		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	370		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	55	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	140	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	990		ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	700		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	4200		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	570		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	4900		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
86-73-7	Fluorene	4900		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID:** C160301-11 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N43 CHM

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U, J, QC-1	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	61	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	12000		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	13000		ug/kg dry	2100	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	75	J, CLP01	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	3200		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
18086-43-6	2,2-Dimethyl-1-acenaphthenone	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	2000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2789-88-0	di-p-Tolylacetylene	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
108349-67-3	Pyrido[2,3-d]indole, 6-methyl-	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID: C160301-11** **MD No:**

Station ID: L72 **Matrix: Surface Soil** **D No: 9N43 CHM**

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
91-22-5	Quinoline	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID:** C160301-11 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N43 CHM

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.0030	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.077		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0061		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.42		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0017	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.48		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID:** C160301-11 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N43 CHM

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.033		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0011	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.015		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.26	J, CLP01	mg/L	0.50	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.27		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.033		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.27		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID:** C160301-11 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N43 CHM

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	2.3		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.32		mg/L	0.25	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.015		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-93-6	1,1-Biphenyl, 3-methyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.2	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.09	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
31776-14-4	1-Naphthol, 6,7-dimethyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-77-1	2-Dibenzofuranol	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
10401-11-3	3-Hydroxyphenylacetylene	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
6939-33-9	7-Methyl-1-naphthol	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
321-64-2	9-Acridinamine, 1,2,3,4-tetrahydro	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L20 **Lab ID:** C160301-11 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N43 CHM

Date Collected: 12/10/15 14:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
829-26-5	Naphthalene, 2,3,6-trimethyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
939-27-5	Naphthalene, 2-ethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
611-32-5	Quinoline, 8-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
17719-70-9	Vinyl trans-cinnamate	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	14		%		12/11/15	12/18/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	720		ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	180000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	78	U, J, QS-3	ug/kg dry	78	12/11/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	2200		ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, QC-1, CLP16	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	580000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	540		ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	910000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	41000		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
98-86-2	Acetophenone	190	J, CLP01	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	130000	J, CLP01	ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	120000	J, CLP02	ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	38000		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	63000		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	3100		ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	23000		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	84000		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
218-01-9	Chrysene	110000	J, CLP02	ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	1200		ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	640000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	1100000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
86-73-7	Fluorene	740000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	9900		ug/kg dry	5500	12/11/15	12/22/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	1400000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	2000000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	140	J, CLP01	ug/kg dry	380	12/11/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	590000		ug/kg dry	170000	12/11/15	12/24/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
1855-47-6	1-Isopropenylnaphthalene	300	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	300	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
33543-31-6	Fluoranthene, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.032		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.10	J, CLP02	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.16	J, CLP02	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.61	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.027		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.59	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.052		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0089	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.016		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.44	J, CLP01	mg/L	1.3	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.33	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.030		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.28	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	5.1		mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.29	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.0026	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.014		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1470-94-6	1H-Inden-5-ol, 2,3-dihydro-	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
16096-32-5	1H-Indole, 4-methyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
614-96-0	1H-Indole, 5-methyl-	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.3	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
7469-77-4	1-Naphthalenol, 2-methyl-	0.06	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
10240-08-1	1-Naphthalenol, 4-methyl-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-77-1	2-Dibenzofuranol	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
135-19-3	2-Naphthalenol	0.1	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
20294-32-0	6-Methyl-4-indanol	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
152434-88-3	Benzaldehyde, 2,6-difluoro-3-hydro	0.06	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
611-14-3	Benzene, 1-ethyl-2-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
104-85-8	Benzonitrile, 4-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 72L27 **Lab ID:** C160301-12 **MD No:**

Station ID: L72 **Matrix:** Surface Soil **D No:** 9N44 CHM

Date Collected: 12/10/15 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
132-65-0	Dibenzothiophene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
571-58-4	Naphthalene, 1,4-dimethyl-	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	0.05	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
28994-41-4	Phenol, 2-(phenylmethyl)-	0.009	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
91-62-3	Quinoline, 6-methyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.03	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	2200		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	83	U, J, QC-1, QS-3	ug/kg dry	83	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	8400		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	15000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	380		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	1800		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	2100		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	640		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1100		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	130	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	420		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	1300		ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	1800		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	50	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	10000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	260		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	20000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	12000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U, J, QC-1	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	150	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	19000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	36000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	11000		ug/kg dry	5300	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
38349-21-2	5,7-Dimethylpyrimido-[3,4-a]-indol	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
262-89-5	Dibenzo[a,e]cyclooctene	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	3000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
16587-52-3	Dibenzothiophene, 3-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7372-88-5	Dibenzothiophene, 4-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
1127-76-0	Naphthalene, 1-ethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	5000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
28478-13-9	Perimidine, 2-ethyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
3674-65-5	Phenanthrene, 2,3-dimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	3000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.078	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.41		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.48		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID:** C160301-13 **MD No:**
Station ID: L76A **Matrix:** Surface Soil **D No:** 9N61 CHM

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.027		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.012		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.21	J, CLP01	mg/L	0.50	12/23/15	12/28/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.26		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.040		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.24	J, CLP01	mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	3.0		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.30		mg/L	0.25	12/23/15	12/28/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.024		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	0.006	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
85-02-9	Benzo[f]quinoline	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
5590-14-7	Cyclopropanecarbonitrile, 2-phenyl	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.05	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.3	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
571-58-4	Naphthalene, 1,4-dimethyl-	0.03	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.04	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL17.3 **Lab ID: C160301-13** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N61 CHM**

Date Collected: 12/12/15 10:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
90-43-7	o-Hydroxybiphenyl	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.006	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	21		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	84	U, J, QC-1	ug/kg dry	84	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	120		ug/kg dry	21	12/16/15	12/30/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	130		ug/kg dry	21	12/16/15	12/30/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	8.8		ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	11		ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	5.5		ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	67	J, CLP01	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.2		ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	97	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	870		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	71	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	80		ug/kg dry	21	12/16/15	12/30/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U, J, QC-1	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.2	U	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	920		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	150		ug/kg dry	21	12/16/15	12/30/15	CLP SOM02.3 BS
108-95-2	Phenol	420	U	ug/kg dry	420	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	41	J, QC-2	ug/kg dry	4.2	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.024		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.10		mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.13		mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0088		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0051		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.014		mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.075		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.014		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.076		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 76AL34 **Lab ID: C160301-14** **MD No:**

Station ID: L76A **Matrix: Surface Soil** **D No: 9N62 CHM**

Date Collected: 12/12/15 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.45		mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.10		mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0080		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
86-53-3	1-Naphthalenecarbonitrile	0.006	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	0.006	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.007	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.03	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.005	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.08	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.009	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.006	J, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID: C160301-15** **MD No:**

Station ID: L77 **Matrix: Surface Soil** **D No: 9N47 CHM**

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		12/16/15	12/20/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	77	U, J, QC-1	ug/kg dry	77	12/16/15	12/20/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	15		ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID: C160301-15** **MD No:**
Station ID: L77 **Matrix: Surface Soil** **D No: 9N47 CHM**

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	4.6		ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
120-12-7	Anthracene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
86-74-8	Carbazole	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
218-01-9	Chrysene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	430		ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
206-44-0	Fluoranthene	3.5	J, CLP01	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
86-73-7	Fluorene	4.2		ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID: C160301-15** **MD No:**

Station ID: L77 **Matrix: Surface Soil** **D No: 9N47 CHM**

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U, J, QC-1	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
91-20-3	Naphthalene	160		ug/kg dry	19	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
85-01-8	Phenanthrene	10		ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
108-95-2	Phenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
129-00-0	Pyrene	3.8	U	ug/kg dry	3.8	12/16/15	12/28/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/20/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID: C160301-15** **MD No:**

Station ID: L77 **Matrix: Surface Soil** **D No: 9N47 CHM**

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.0020	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.0039	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID:** C160301-15 **MD No:**

Station ID: L77 **Matrix:** Surface Soil **D No:** 9N47 CHM

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0029	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0013	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0035	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 77L33 **Lab ID: C160301-15** **MD No:**

Station ID: L77 **Matrix: Surface Soil** **D No: 9N47 CHM**

Date Collected: 12/11/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.012		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.0073		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
994-05-8	Butane, 2-methoxy-2-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	460		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U	ug/kg dry	82	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	1600		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2200		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	89	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	740		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	320		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	89	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	140	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	61	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	520		ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	290		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	1500		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	530		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	2300		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1900		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	5300		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	6600		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
108-95-2	Phenol	45	J, CLP01	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	1400		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	800	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	700	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
95-13-6	Indene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.028		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/14/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.11	J, CLP01	mg/L	0.13	12/14/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.19		mg/L	0.13	12/14/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0098		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0083		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.083		mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.072		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.023		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.094	J, CLP01	mg/L	0.13	12/14/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L19 **Lab ID: C160301-16** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N28 CHM**

Date Collected: 12/9/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.68		mg/L	0.13	12/14/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.14		mg/L	0.13	12/14/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.011		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
2234-20-0	2,4-Dimethylstyrene	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.03	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.03	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
95-13-6	Indene	0.05	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.008	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.1	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	0.008	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID: C160301-17** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N29 CHM**

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/11/15	12/16/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4700		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U, J, QS-3	ug/kg dry	80	12/11/15	12/16/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	16000		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID: C160301-17** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N29 CHM**

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	28000		ug/kg dry	6100	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	770		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
120-12-7	Anthracene	10000		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3000		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	910		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1500		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	220		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	530		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
86-74-8	Carbazole	3300		ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
218-01-9	Chrysene	2700		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	85	J, CLP01	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	15000		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	330		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
206-44-0	Fluoranthene	24000	J, QC-2	ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
86-73-7	Fluorene	26000		ug/kg dry	6100	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID:** C160301-17 **MD No:**

Station ID: L79 **Matrix:** Surface Soil **D No:** 9N29 CHM

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	240		ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
91-20-3	Naphthalene	27000		ug/kg dry	6100	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/16/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
85-01-8	Phenanthrene	68000		ug/kg dry	6100	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/11/15	12/16/15	CLP SOM02.3 B
129-00-0	Pyrene	14000		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	300	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	6000	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	200	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	800	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	400	J, CLP15	ug/kg dry		12/11/15	12/16/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID: C160301-17** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N29 CHM**

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.11	J, CLP01	mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/14/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.44		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.59		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID:** C160301-17 **MD No:**

Station ID: L79 **Matrix:** Surface Soil **D No:** 9N29 CHM

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.032		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.019		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.22	J, CLP01	mg/L	0.50	12/14/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.30		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.038		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.28		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79L21 **Lab ID:** C160301-17 **MD No:**
Station ID: L79 **Matrix:** Surface Soil **D No:** 9N29 CHM

Date Collected: 12/9/15 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.8		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.34		mg/L	0.25	12/14/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.018		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	0.009	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.2	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.08	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
2523-37-7	9H-Fluorene, 9-methyl-	0.005	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
95-13-6	Indene	0.06	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
3710-23-4	Naphthalene, 2-(1-methylethenyl)-	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.04	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	0.03	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	400		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U	ug/kg dry	82	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	1500		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2100		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	87	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	430		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	330		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	88	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	150	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	54	J, CLP01	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	340	J, CLP01	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	280		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	1400		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	350		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	2400	J, QC-2	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	1700		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	3900		ug/kg dry	1000	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	5200		ug/kg dry	1000	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	1300		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	700	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
35465-71-5	2-Phenylnaphthalene	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	600	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.035		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.19		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.20		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID:** C160301-18 **MD No:**

Station ID: L79 **Matrix:** Surface Soil **D No:** 9N71 CHM

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.012		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.012		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.076		mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.10	J, CLP01	mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.038		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.12	J, CLP01	mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.96		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.21		mg/L	0.15	12/21/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.021		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
767-59-9	1H-Indene, 1-methyl-	0.008	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.009	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.06	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.03	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
934-10-1	3-Phenylbut-1-ene	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1195-14-8	Benzo[b]thiophene, 2-methyl-	0.007	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
16587-47-6	Benzo[b]thiophene, 6-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
95-13-6	Indene	0.04	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.009	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.2	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 79AL31 **Lab ID: C160301-18** **MD No:**

Station ID: L79 **Matrix: Surface Soil** **D No: 9N71 CHM**

Date Collected: 12/13/15 14:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
582-16-1	Naphthalene, 2,7-dimethyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID: C160301-19** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N30 CHM**

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	86	U	ug/kg dry	86	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	230		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID: C160301-19** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N30 CHM**

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1200		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	42		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	240		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	210	J, CLP01	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	58		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	99		ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	14		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	23		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	57	J, CLP01	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	190	J, CLP01	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	5.1		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	850		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	440		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	1400		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1000		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID: C160301-19** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N30 CHM**

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	15		ug/kg dry	4.2	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	150		ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	2800		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
108-95-2	Phenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	920		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
203-64-5	4H-Cyclopenta[def]phenanthrene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID: C160301-19** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N30 CHM**

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.011		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/14/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.015		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.070		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID:** C160301-19 **MD No:**

Station ID: L80 **Matrix:** Surface Soil **D No:** 9N30 CHM

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0029	J, CLP01	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0037	J, CLP01	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0065	J, CLP01	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.031		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.015		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.037		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L16.9 **Lab ID: C160301-19** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N30 CHM**

Date Collected: 12/9/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.024		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.060		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0072		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	0.02	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
64884-40-8	5(4H)-Thebenidinone	0.005	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
84-65-1	9,10-Anthracenedione	0.006	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.007	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	47	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	81	U	ug/kg dry	81	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	140		ug/kg dry	20	12/11/15	12/17/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	160		ug/kg dry	20	12/11/15	12/17/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	21		ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.8		ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	200	J, CLP01	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	4.0		ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	220		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	650		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	91		ug/kg dry	20	12/11/15	12/17/15	CLP SOM02.3 BS
86-73-7	Fluorene	150		ug/kg dry	20	12/11/15	12/17/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	730		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	360		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
108-95-2	Phenol	48	J, CLP01	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	63	J, QC-2	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
301-02-0	9-Octadecenamide, (Z)-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0026	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.0079		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.010		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0094	J, CLP01	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0041	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0015	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0045	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L18.9 **Lab ID: C160301-20** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N31 CHM**

Date Collected: 12/9/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.085		mg/L	0.010	12/15/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.0080		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
95-13-6	Indene	0.007	NJ, CLP15	mg/L		12/15/15	12/18/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.007	NJ, CLP15	mg/L		12/15/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U	ug/kg dry	82	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	16		ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2.9	J, CLP01	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	1.2	J, CLP01	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	1.2	J, CLP01	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	1.2	J, CLP01	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	570		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	3.7	J, CLP01, QC-2	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
86-73-7	Fluorene	4.1		ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	140	J, CLP01	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	15	J, QC-2	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
108-95-2	Phenol	400	U	ug/kg dry	400	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	4.0	U	ug/kg dry	4.0	12/11/15	12/16/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.0054		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.0051		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0011	J, CLP01	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0019	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0019	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0034	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 80L29.3 **Lab ID: C160301-21** **MD No:**

Station ID: L80 **Matrix: Surface Soil** **D No: 9N32 CHM**

Date Collected: 12/9/15 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.044		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.0078		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	0.005	U	mg/L	0.005	12/15/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	77	U	ug/kg dry	77	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	60		ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	130		ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	2.3	J, CLP01	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	3.8	U	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	13		ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	2.3	J, CLP01	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.8		ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	0.77	J, CLP01	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	8.8		ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	74	J, CLP01	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	480		ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	110		ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
86-73-7	Fluorene	120		ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.77	J, CLP01	ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	28		ug/kg dry	3.8	12/11/15	12/16/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	220		ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B
108-95-2	Phenol	38	J, CLP01	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	110	J, QC-2	ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
301-02-0	9-Octadecenamide, (Z)-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0040	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.011		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.025		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0039	J, CLP01	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0011	J, CLP01	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.014		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.016		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.022		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L09 **Lab ID: C160301-22** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N33 CHM**

Date Collected: 12/10/15 8:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.0093		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.045		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0078		mg/L	0.0050	12/15/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
203-64-5	4H-Cyclopenta[def]phenanthrene	0.006	NJ, CLP15	mg/L		12/15/15	12/18/15	CLP SOM02.3 B
100-00-5	Benzene, 1-chloro-4-nitro-	0.007	NJ, CLP15	mg/L		12/15/15	12/18/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.009	NJ, CLP15	mg/L		12/15/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	5100		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QS-3	ug/kg dry	82	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	23000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	29000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	600		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	50	J, CLP01	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	4600		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3800		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	900		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1600		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	200	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	550		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	2200		ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	3000		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	96	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	20000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	290		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	25000	J, QC-2	ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
86-73-7	Fluorene	25000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	220		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	50000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	60000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	410	U	ug/kg dry	410	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	14000		ug/kg dry	1000	12/11/15	12/17/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
238-84-6	11H-Benzo[a]fluorene	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	9000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	600	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/17/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.079		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.52		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.52		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.024		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.023		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.23	J, CLP01	mg/L	1.0	12/15/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.28	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.034		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.29	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	3.1		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.34	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.015		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.06	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
3770-48-7	4-Methylcarbazole	0.03	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
244-99-5	5H-Indeno[1,2-b]pyridine	0.009	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
108-38-3	Benzene, 1,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
7372-88-5	Dibenzothiophene, 4-methyl-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.07	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.1	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	0.04	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
2131-41-1	Naphthalene, 1,4,5-trimethyl-	0.005	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L22.5 **Lab ID: C160301-23** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N34 CHM**

Date Collected: 12/10/15 8:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	6900		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QS-3	ug/kg dry	82	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	25000		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	44000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	760		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	71	J, CLP01	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	6900		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	5800		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	1300		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	2300		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	270		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	770		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	2800		ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
218-01-9	Chrysene	4800		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	130	J, CLP01	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	24000		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	240		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	38000	J, QC-2	ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
86-73-7	Fluorene	31000		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	330		ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	67000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	98000		ug/kg dry	6300	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	21000		ug/kg dry	2100	12/11/15	12/17/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	10000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.14	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.72		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.71		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.027		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.024		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.30	J, CLP01	mg/L	1.0	12/15/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.39	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.041		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.39	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	4.8		mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.43	J, CLP01	mg/L	0.50	12/15/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.019		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.3	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
244-40-6	2-Azafluorene	0.005	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.09	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	0.008	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
108-38-3	Benzene, 1,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
611-14-3	Benzene, 1-ethyl-2-methyl-	0.01	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.02	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.1	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
2131-42-2	Naphthalene, 1,4,6-trimethyl-	0.008	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	0.009	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.06	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.04	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 81L31.5 **Lab ID: C160301-24** **MD No:**

Station ID: L81 **Matrix: Surface Soil** **D No: 9N35 CHM**

Date Collected: 12/10/15 8:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
829-26-5	Naphthalene, 2,3,6-trimethyl-	0.008	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.07	NJ, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.06	J, CLP15	mg/L		12/15/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID: C160301-25** **MD No:**

Station ID: L82 **Matrix: Surface Soil** **D No: 9N52 CHM**

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QC-1	ug/kg dry	82	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	50	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID: C160301-25** **MD No:**

Station ID: L82 **Matrix: Surface Soil** **D No: 9N52 CHM**

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	74	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	51	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	390		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	96	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	58	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID: C160301-25** **MD No:**

Station ID: L82 **Matrix: Surface Soil** **D No: 9N52 CHM**

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.0	U	ug/kg dry	4.0	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	130	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	180	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	55	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
301-02-0	9-Octadecenamide, (Z)-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID:** C160301-25 **MD No:**

Station ID: L82 **Matrix:** Surface Soil **D No:** 9N52 CHM

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0071		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.027		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.037		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B

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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID:** C160301-25 **MD No:**

Station ID: L82 **Matrix:** Surface Soil **D No:** 9N52 CHM

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0029	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0015	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0020	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.019		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0026	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.020		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 82L7.9 **Lab ID:** C160301-25 **MD No:**

Station ID: L82 **Matrix:** Surface Soil **D No:** 9N52 CHM

Date Collected: 12/11/15 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.15		mg/L	0.025	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.026		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
673-32-5	Benzene, 1-propynyl-	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.008	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID: C160301-26** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N63 CHM**

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	31000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	78	U, J, QC-1, QS-3	ug/kg dry	78	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	87000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U, R, QS-4	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID: C160301-26** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N63 CHM**

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	150000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	6800		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	45000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	36000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	10000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	17000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	1700		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	7100		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	27000		ug/kg dry	12000	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	34000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	630		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	92000		ug/kg dry	5900	12/16/15	12/22/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	250		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	160000		ug/kg dry	5900	12/16/15	12/22/15	CLP SOM02.3 B
86-73-7	Fluorene	120000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID: C160301-26** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N63 CHM**

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	1900		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	140000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	410000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	130000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	900	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	2000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID: C160301-26** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N63 CHM**

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.081	J, CLP01	mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/24/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.35		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.51		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID:** C160301-26 **MD No:**

Station ID: L83 **Matrix:** Surface Soil **D No:** 9N63 CHM

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.040		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.030		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.18	J, CLP01	mg/L	0.50	12/24/15	12/31/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.27		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.037		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.30		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L21.5 **Lab ID: C160301-26** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N63 CHM**

Date Collected: 12/12/15 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.4		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.48		mg/L	0.25	12/24/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.023		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
643-58-3	1,1-Biphenyl, 2-methyl-	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
54852-73-2	1,1-Biphenyl, 3-ethoxy-	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1000242-39-6	2,4,5-Trichlorophenyl cinnamate	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.008	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.03	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
612-60-2	Quinoline, 7-methyl-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID: C160301-27** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N73 CHM**

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	11000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QS-3	ug/kg dry	82	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	35000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID: C160301-27** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N73 CHM**

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	54000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	1600		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	14000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	9700		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	2300		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	4500	J, CLP01	ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	510		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	1500		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	10000	J, CLP01	ug/kg dry	12000	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	8500		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	220		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	38000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	210		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	67000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	47000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID: C160301-27** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N73 CHM**

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	610		ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	83000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	1000000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	39000		ug/kg dry	6200	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
643-58-3	1,1-Biphenyl, 2-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	500	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	600	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
2131-42-2	Naphthalene, 1,4,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
571-61-9	Naphthalene, 1,5-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
5912-01-6	Thieno[2,3-b]thiophene, 2-ethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID:** C160301-27 **MD No:**

Station ID: L83 **Matrix:** Surface Soil **D No:** 9N73 CHM

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.099	J, CLP02	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/26/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.71		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.85		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID:** C160301-27 **MD No:**

Station ID: L83 **Matrix:** Surface Soil **D No:** 9N73 CHM

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.036		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
120-12-7	Anthracene	0.029		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
86-74-8	Carbazole	0.63	J, CLP01	mg/L	1.0	12/21/15	12/31/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.45	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.036		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
86-73-7	Fluorene	0.40	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID:** C160301-27 **MD No:**

Station ID: L83 **Matrix:** Surface Soil **D No:** 9N73 CHM

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
91-20-3	Naphthalene	5.0		mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.49	J, CLP01	mg/L	0.50	12/21/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/26/15	CLP SOM02.3 B
129-00-0	Pyrene	0.021		mg/L	0.0050	12/21/15	12/26/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
2235-15-6	1(2H)-Acenaphthylenone	0.008	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
132-75-2	1-Naphthaleneacetonitrile	0.007	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.2	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
244-99-5	5H-Indeno[1,2-b]pyridine	0.006	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	0.03	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.3	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
262-12-4	Dibenzo-p-dioxin	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
496-11-7	Indane	0.05	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.04	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L22.2 **Lab ID: C160301-27** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N73 CHM**

Date Collected: 12/12/15 11:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.01	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.009	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
612-60-2	Quinoline, 7-methyl-	0.009	NJ, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.09	J, CLP15	mg/L		12/21/15	12/26/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	18		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	370		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	82	U, J, QC-1	ug/kg dry	82	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	400	U, J, CLP16	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	1300		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1900		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	87	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	470		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
1912-24-9	Atrazine	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	300		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	81	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	120	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	63	J, CLP01	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	620		ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	270		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	1400		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	800		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	2200		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	1500		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	400	U, J, QC-1	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	3900		ug/kg dry	1000	12/16/15	12/25/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	4200		ug/kg dry	1000	12/16/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	400	U	ug/kg dry	400	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	1200		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
203-64-5	4H-Cyclopenta[def]phenanthrene	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
613-12-7	Anthracene, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
41593-21-9	Fluorene, 1,4-dihydro-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2531-84-2	Phenanthrene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.036		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/24/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.18		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.25		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.013		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.012		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0010	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.071		mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.13		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.038		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.14		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83L39 **Lab ID: C160301-28** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N64 CHM**

Date Collected: 12/12/15 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.70		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.24		mg/L	0.13	12/24/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.022		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
1855-47-6	1-Isopropenylnaphthalene	0.008	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.03	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1195-14-8	Benzo[b]thiophene, 2-methyl-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.009	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.009	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.1	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
108349-67-3	Pyrido[2,3-d]indole, 6-methyl-	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
17719-70-9	Vinyl trans-cinnamate	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	24		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	87	U, J, QC-1	ug/kg dry	87	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	33		ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	20		ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	2.2	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	3.9	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	2.2	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	1.7	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	820		ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	17	J, QC-2	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
86-73-7	Fluorene	16		ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	430	U, J, QC-1	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	220		ug/kg dry	22	12/16/15	12/30/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	62	J, CLP01	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
108-95-2	Phenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	16	J, QC-2	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.032		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/24/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.14	J, CLP01	mg/L	0.15	12/24/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.17		mg/L	0.15	12/24/15	12/31/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.011		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0034	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.031		mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.088	J, CLP01	mg/L	0.15	12/24/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0068		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.074		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL40 **Lab ID: C160301-29** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N65 CHM**

Date Collected: 12/13/15 9:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.88		mg/L	0.15	12/24/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.072		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0036	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
613-46-7	2-Naphthalenecarbonitrile	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
104-55-2	2-Propenal, 3-phenyl-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1455-18-1	3-Methylbenzothiophene	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
3652-91-3	9H-Carbazole, 2-methyl-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.06	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
95-15-8	Benzo[b]thiophene	0.04	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1195-14-8	Benzo[b]thiophene, 2-methyl-	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
101-81-5	Diphenylmethane	0.005	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.009	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.01	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.006	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.1	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	85	U	ug/kg dry	85	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	100		ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	180		ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	9.3		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	40		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	31	J, QC-2	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	7.6		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	14		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	2.1	J, CLP01	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.7		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	46	J, CLP01	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	25		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	120	J, CLP01	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	410		ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	200	J, QC-2	ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
86-73-7	Fluorene	180		ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U, J, QC-1	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	2.1	J, CLP01	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	240		ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	460		ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	180	J, QC-2	ug/kg dry	42	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0071		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, R, QC-1, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.026		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27, QS-4	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	0.038		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	0.0031	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0013	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.011		mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.017		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0022	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.020		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL43 **Lab ID: C160301-30** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N66 CHM**

Date Collected: 12/13/15 10:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.16		mg/L	0.025	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.022		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
994-05-8	Butane, 2-methoxy-2-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	23		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	86	U, J, QC-1	ug/kg dry	86	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	430	U, J, CLP16	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	3.0	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1.3	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	520		ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	3.4	J, CLP01, QC-2	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
86-73-7	Fluorene	1.3	J, CLP01	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	430	U, J, QC-1	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	37		ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	6.0		ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	430	U	ug/kg dry	430	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	4.3	U	ug/kg dry	4.3	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0077		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/24/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.033		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.042	J, QM-1	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0033	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0012	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0091	J, CLP01	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.024		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0056		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0031	J, CLP01	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.023		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL48 **Lab ID: C160301-31** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N67 CHM**

Date Collected: 12/13/15 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.24		mg/L	0.025	12/24/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.026		mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/24/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/24/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
270-82-6	2-Benzothiophene	0.009	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.007	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.02	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.03	NJ, CLP15	mg/L		12/24/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	85	U	ug/kg dry	85	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	91		ug/kg dry	21	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	36		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	1.3	J, CLP01	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	11		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	6.4	J, QC-2	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	4.7		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	50	J, CLP01	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	400		ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	36		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
86-73-7	Fluorene	47		ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U, J, QC-1	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.2	U	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	430		ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	98		ug/kg dry	21	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	420	U	ug/kg dry	420	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	31	J, QC-2	ug/kg dry	4.2	12/16/15	12/28/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.011		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.062		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.046	J, QM-1, QM-4	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0029	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0022	J, CLP01	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.024		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0014	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.023		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL50 **Lab ID: C160301-32** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N68 CHM**

Date Collected: 12/13/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.40		mg/L	0.050	12/21/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.024		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
673-32-5	Benzene, 1-propynyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
95-15-8	Benzo[b]thiophene	0.02	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.04	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/16/15	12/19/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U	ug/kg dry	79	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	12		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	11		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	1.6	J, CLP01, QC-2	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	1.2	J, CLP01	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	370		ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	9.5		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
86-73-7	Fluorene	11		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	55		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	30		ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/28/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0030	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/25/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.012		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.016		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0011	J, CLP01	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0078		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0012	J, CLP01	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0085		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B

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Region 4 Science and Ecosystem Support Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 83AL70 **Lab ID: C160301-33** **MD No:**

Station ID: L83 **Matrix: Surface Soil** **D No: 9N69 CHM**

Date Collected: 12/13/15 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.068		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.012		mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/25/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
994-05-8	Butane, 2-methoxy-2-methyl-	0.005	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID: C160301-34** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N36 CHM**

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	83	U	ug/kg dry	83	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	1.2	J, CLP01	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID: C160301-34** **MD No:**
Station ID: L86 **Matrix: Surface Soil** **D No: 9N36 CHM**

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2.5	J, CLP01	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	2.9	J, CLP01	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	390		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	3.3	J, CLP01, QC-2	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
86-73-7	Fluorene	3.3	J, CLP01	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID: C160301-34** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N36 CHM**

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	2.1	J, CLP01	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	7.8	J, QC-2	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
108-95-2	Phenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID: C160301-34** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N36 CHM**

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0011	J, CLP01	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/15/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.0050		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.0051		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID:** C160301-34 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N36 CHM

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0028	J, CLP01	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0019	J, CLP01	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0034	J, CLP01	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L06 **Lab ID: C160301-34** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N36 CHM**

Date Collected: 12/10/15 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.018		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.0059		mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/15/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/15/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	0.005	U	mg/L	0.005	12/15/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/11/15	12/17/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	99000	J, CLP01	ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U, J, QC-1, QS-3	ug/kg dry	80	12/11/15	12/17/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	330		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	330000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	520000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	12000		ug/kg dry	2000	12/11/15	12/17/15	CLP SOM02.3 B
98-86-2	Acetophenone	120	J, CLP01	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
120-12-7	Anthracene	85000		ug/kg dry	6000	12/11/15	12/22/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	93000		ug/kg dry	6000	12/11/15	12/22/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	10000		ug/kg dry	2000	12/11/15	12/17/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	17000		ug/kg dry	2000	12/11/15	12/17/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	2300		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	5100		ug/kg dry	2000	12/11/15	12/17/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
86-74-8	Carbazole	62000		ug/kg dry	12000	12/11/15	12/22/15	CLP SOM02.3 B
218-01-9	Chrysene	81000		ug/kg dry	6000	12/11/15	12/22/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	880		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	360000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
206-44-0	Fluoranthene	650000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
86-73-7	Fluorene	430000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	2500		ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
91-20-3	Naphthalene	840000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/17/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
85-01-8	Phenanthrene	1200000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/11/15	12/17/15	CLP SOM02.3 B
129-00-0	Pyrene	360000		ug/kg dry	150000	12/11/15	12/24/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
644-08-6	1,1-Biphenyl, 4-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	500	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	40000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
90-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	300	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
571-61-9	Naphthalene, 1,5-dimethyl-	400	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	900	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B
523-14-8	Yohimban-17-one	800	NJ, CLP15	ug/kg dry		12/11/15	12/17/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID:** C160301-35 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N37 CHM

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.0024	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.20	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.025		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.88		mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0019	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.98		mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.080		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0035	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.034		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0011	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.73	J, CLP01	mg/L	1.3	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.54	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.051		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.46	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	7.4		mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.53	J, CLP01	mg/L	0.63	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.024		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
1454-80-4	[1,1-Biphenyl]-2,2-diamine	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
580-51-8	[1,1-Biphenyl]-3-ol	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.3	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
7469-77-4	1-Naphthalenol, 2-methyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.009	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
622-96-8	Benzene, 1-ethyl-4-methyl-	0.009	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
3991-61-5	Benzene, 1-methyl-2-phenoxy-	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
85-02-9	Benzo[f]quinoline	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L19.8 **Lab ID: C160301-35** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N37 CHM**

Date Collected: 12/10/15 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
581-40-8	Naphthalene, 2,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.05	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.05	J, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	250		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	75	U	ug/kg dry	75	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	370	U, J, CLP16	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	710		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1300		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	72	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-86-2	Acetophenone	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	230		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	230		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	66	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	110	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	220	J, CLP01	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	200		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	970		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	420		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	1700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1100		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	1500		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	2900	J	ug/kg dry	380	12/11/15	12/17/15	CLP SOM02.3 B
108-95-2	Phenol	370	U	ug/kg dry	370	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	1000		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
949-41-7	1H-Cyclopropa[l]phenanthrene,1a,9b	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
229-95-8	6H-Dibenzo[b,d]-pyran	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.015	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.10	~~J, CLP01~~ J	mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.079	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID:** C160301-36 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N38 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0056		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0048	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.023		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.043		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.026		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.050		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 86L30.3 **Lab ID: C160301-36** **MD No:**

Station ID: L86 **Matrix: Surface Soil** **D No: 9N38 CHM**

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.66		mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.11	~~J, CLP01~~ J	mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.011		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
6306-07-6	1-Acenaphthenol	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
3770-48-7	4-Methylcarbazole	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	370		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	76	U	ug/kg dry	76	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	960		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	2000		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	110	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	360		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	380		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	110	~~J, CLP01~~ J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	190	J	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	60	J, CLP01	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	310	J, CLP01	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	330		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	1500		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	530		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	2700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
86-73-7	Fluorene	1800		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	1700		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	5600	J	ug/kg dry	970	12/11/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	38	J, CLP01	ug/kg dry	380	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	1600		ug/kg dry	190	12/11/15	12/14/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
90-12-0	1-Methylnaphthalene	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
35465-71-5	2-Phenylnaphthalene	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	700	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
1430-97-3	9H-Fluorene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	400	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
832-69-9	Phenanthrene, 1-methyl-	500	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0086	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.041	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.049	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0036	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0032	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.017		mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.026		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.016		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.032		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 986L30.3 **Lab ID:** C160301-37 **MD No:**

Station ID: L86 **Matrix:** Surface Soil **D No:** 9N39 CHM

Date Collected: 12/10/15 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.53		mg/L	0.13	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.061	J	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0076		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	19		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	83	U, J, QC-1	ug/kg dry	83	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	1.2	J, CLP01	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	1.6	J, CLP01	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	4.1		ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	480		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	3.3	J, CLP01	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
86-73-7	Fluorene	2.1	J, CLP01	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U, J, QC-1	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	7.4		ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	7.4		ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
108-95-2	Phenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	4.1	U	ug/kg dry	4.1	12/16/15	12/28/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0077		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.028		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.039		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0027	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0017	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0045	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.020		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0041	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.023		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L13.5 **Lab ID: C160301-38** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N55 CHM**

Date Collected: 12/12/15 8:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.18		mg/L	0.025	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.033		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0025	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
673-32-5	Benzene, 1-propynyl-	0.008	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	84	U, J, QC-1	ug/kg dry	84	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	14		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	20		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	5.0	J, QC-2	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	3.3	J, CLP01	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	610		ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	27		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
86-73-7	Fluorene	19		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U, J, QC-1	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.1	U	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	25		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	53		ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	410	U	ug/kg dry	410	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	24	J, QC-2	ug/kg dry	4.1	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
301-02-0	9-Octadecenamide, (Z)-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.011		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.080		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.053		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0024	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0031	J, CLP01	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0025	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.032		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.010		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.034		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L16.5 **Lab ID: C160301-39** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N56 CHM**

Date Collected: 12/12/15 8:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.45		mg/L	0.050	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.059		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0058		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
270-82-6	2-Benzothiophene	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
766-97-2	Benzene, 1-ethynyl-4-methyl-	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
571-58-4	Naphthalene, 1,4-dimethyl-	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U, J, QC-1	ug/kg dry	79	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	9.4		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	14		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	11	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	8.6		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	2.4	J, CLP01	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	7.1		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	500		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	63	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	20		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	46		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	6.7	~~J, CLP01, CLP32~~ J	ug/kg dry	7.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	110	J	ug/kg dry	19	12/16/15	12/30/15	CLP SOM02.3 BS
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	49	J, QC-2	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0068		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.027	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.036		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID:** C160301-40 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N57 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers		Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0018	~~J, CLP01~~	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0018	J, CLP01		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0035	J, CLP01		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.018			mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0035	J, CLP01		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.019			mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U		mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16		mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 89L20.5 **Lab ID: C160301-40** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N57 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.16	J	mg/L	0.025	12/23/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.026	J	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
994-05-8	Butane, 2-methoxy-2-methyl-	0.007	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.007	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.02	NJ, CLP15	mg/L		12/23/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	15		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	78	U, J, QC-1	ug/kg dry	78	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	6.2		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	8.6		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	6.2	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	5.4		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	4.3		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	480		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	40	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
86-73-7	Fluorene	12		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.9	U	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	31		ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	3.1	~~J, CLP01, CLP32~~ J	ug/kg dry	7.8	12/16/15	12/29/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	59	J	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	32	J, QC-2	ug/kg dry	3.9	12/16/15	12/29/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID:** C160301-41 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N58 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.011		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/23/15	12/27/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.063	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.045		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID:** C160301-41 **MD No:**

Station ID: L89 **Matrix:** Surface Soil **D No:** 9N58 CHM

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0055	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0030	J, CLP01	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0033	J, CLP01	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.024		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0056		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
86-73-7	Fluorene	0.026		mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 989L20.5 **Lab ID: C160301-41** **MD No:**

Station ID: L89 **Matrix: Surface Soil** **D No: 9N58 CHM**

Date Collected: 12/12/15 8:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.52	J	mg/L	0.10	12/23/15	12/28/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.037	J	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/23/15	12/27/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0036	J, CLP01	mg/L	0.0050	12/23/15	12/27/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
270-82-6	2-Benzothiophene	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
994-05-8	Butane, 2-methoxy-2-methyl-	0.008	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.04	NJ, CLP15	mg/L		12/23/15	12/27/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID: C160301-42** **MD No:**

Station ID: L94 **Matrix: Surface Soil** **D No: 9N27 CHM**

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	20		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	84	U	ug/kg dry	84	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	410	U, J, CLP16	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID: C160301-42** **MD No:**

Station ID: L94 **Matrix: Surface Soil** **D No: 9N27 CHM**

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
98-86-2	Acetophenone	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
1912-24-9	Atrazine	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	480		ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
86-73-7	Fluorene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID: C160301-42** **MD No:**

Station ID: L94 **Matrix: Surface Soil** **D No: 9N27 CHM**

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
78-59-1	Isophorone	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	210	U	ug/kg dry	210	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
85-01-8	Phenanthrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
108-95-2	Phenol	410	U	ug/kg dry	410	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	4.1	U	ug/kg dry	4.1	12/11/15	12/16/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	200	U	ug/kg dry	200	12/11/15	12/14/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID: C160301-42** **MD No:**

Station ID: L94 **Matrix: Surface Soil** **D No: 9N27 CHM**

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.0032	J, CLP01	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, R, QS-4	mg/L	0.0020	12/14/15	12/18/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, QC-1, CLP16	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.016		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, R, QS-4	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.015		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID:** C160301-42 **MD No:**

Station ID: L94 **Matrix:** Surface Soil **D No:** 9N27 CHM

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0020	J, CLP01	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.0090		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0027	J, CLP01	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
86-73-7	Fluorene	0.0087		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 94L4.5 **Lab ID: C160301-42** **MD No:**

Station ID: L94 **Matrix: Surface Soil** **D No: 9N27 CHM**

Date Collected: 12/9/15 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.14		mg/L	0.025	12/14/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, QC-1	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.013		mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/14/15	12/18/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0050	U	mg/L	0.0050	12/14/15	12/18/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
270-82-6	2-Benzothiophene	0.007	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	0.01	NJ, CLP15	mg/L		12/14/15	12/18/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID: C160301-43** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N45 CHM**

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	22		%		12/11/15	12/14/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	85	U	ug/kg dry	85	12/11/15	12/14/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	420	U, J, CLP16	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	130		ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID: C160301-43** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N45 CHM**

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	68		ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	8.9		ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
98-86-2	Acetophenone	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
120-12-7	Anthracene	19		ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
1912-24-9	Atrazine	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	16	J, QC-2	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.0	J, CLP01	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	5.1		ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	0.93	J, CLP01	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	4.2	U	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
105-60-2	Caprolactam	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
86-74-8	Carbazole	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
218-01-9	Chrysene	11		ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	4.2	U	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	68	J, CLP01	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	590		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
206-44-0	Fluoranthene	96		ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
86-73-7	Fluorene	78		ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID: C160301-43** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N45 CHM**

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.93	J, CLP01	ug/kg dry	4.2	12/11/15	12/17/15	CLP SOM02.3 BS
78-59-1	Isophorone	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
91-20-3	Naphthalene	900		ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	220	U	ug/kg dry	220	12/11/15	12/14/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	8.5	U	ug/kg dry	8.5	12/11/15	12/17/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	220	J, QC-2	ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
108-95-2	Phenol	420	U	ug/kg dry	420	12/11/15	12/14/15	CLP SOM02.3 B
129-00-0	Pyrene	100	J, QC-2	ug/kg dry	21	12/11/15	12/17/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
301-02-0	9-Octadecenamide, (Z)-	300	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
57-10-3	n-Hexadecanoic acid	200	NJ, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	500	J, CLP15	ug/kg dry		12/11/15	12/14/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID: C160301-43** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N45 CHM**

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.013		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.050		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.068		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID:** C160301-43 **MD No:**

Station ID: L95 **Matrix:** Surface Soil **D No:** 9N45 CHM

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.0038	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0026	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0094	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.033		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0052		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.034		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L30.5 **Lab ID: C160301-43** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N45 CHM**

Date Collected: 12/10/15 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	0.34		mg/L	0.050	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.044		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0024	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
270-82-6	2-Benzothiophene	0.008	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-13-6	Indene	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		12/11/15	12/15/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	77	U	ug/kg dry	77	12/11/15	12/15/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	20		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	29		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
208-96-8	Acenaphthylene	4.2		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
120-12-7	Anthracene	8.2		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	6.1	J, QC-2	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
50-32-8	Benzo(a)pyrene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
205-99-2	Benzo(b)fluoranthene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
191-24-2	Benzo(g,h,i)perylene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
207-08-9	Benzo(k)fluoranthene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
86-74-8	Carbazole	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
218-01-9	Chrysene	4.6		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
53-70-3	Dibenzo(a,h)anthracene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
132-64-9	Dibenzofuran	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	540		ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
206-44-0	Fluoranthene	39	J, QC-2	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
86-73-7	Fluorene	31		ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	3.8	U	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
78-59-1	Isophorone	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
91-20-3	Naphthalene	73		ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/11/15	12/15/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	7.7	U	ug/kg dry	7.7	12/11/15	12/17/15	CLP SOM02.3 BS
85-01-8	Phenanthrene	96	J, QC-2	ug/kg dry	19	12/11/15	12/17/15	CLP SOM02.3 BS
108-95-2	Phenol	380	U	ug/kg dry	380	12/11/15	12/15/15	CLP SOM02.3 B
129-00-0	Pyrene	29	J, QC-2	ug/kg dry	3.8	12/11/15	12/17/15	CLP SOM02.3 BS
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N, CLP15			12/11/15	12/15/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.025		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/16/15	12/19/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.18		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.15		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.011		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
120-12-7	Anthracene	0.0047	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
86-74-8	Carbazole	0.0090	J, CLP01	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.057		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.0076	J, QC-2	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
86-73-7	Fluorene	0.061		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, QC-1	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 95L31.5 **Lab ID: C160301-44** **MD No:**

Station ID: L95 **Matrix: Surface Soil** **D No: 9N46 CHM**

Date Collected: 12/10/15 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
91-20-3	Naphthalene	1.2		mg/L	0.15	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.066		mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/16/15	12/19/15	CLP SOM02.3 B
129-00-0	Pyrene	0.0037	J, CLP01	mg/L	0.0050	12/16/15	12/19/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
90-12-0	1-Methylnaphthalene	0.07	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
203-64-5	4H-Cyclopenta[def]phenanthrene	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
768-49-0	Benzene, (2-methyl-1-propenyl)-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
108-38-3	Benzene, 1,3-dimethyl-	0.02	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
673-32-5	Benzene, 1-propynyl-	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
95-15-8	Benzo[b]thiophene	0.04	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
496-11-7	Indane	0.03	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
447-53-0	Naphthalene, 1,2-dihydro-	0.007	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	0.005	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.01	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 B
939-27-5	Naphthalene, 2-ethyl-	0.006	NJ, CLP15	mg/L		12/16/15	12/19/15	CLP SOM02.3 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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	13		%		12/16/15	12/20/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4400	J, CLP01	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	77	U, J, QC-1, QS-3	ug/kg dry	77	12/16/15	12/20/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	14000	J	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	22000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	780		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
120-12-7	Anthracene	2600		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	3000		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	830		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	1400		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	150	J, CLP01	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	580		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
86-74-8	Carbazole	2100		ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
218-01-9	Chrysene	2500		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	69	J, CLP01	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	16000	J	ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	350		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
206-44-0	Fluoranthene	27000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	19000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID: C160301-45** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N48 CHM**

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U, J, QC-1	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	190		ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
91-20-3	Naphthalene	36000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U	ug/kg dry	190	12/16/15	12/20/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
85-01-8	Phenanthrene	52000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	380	U	ug/kg dry	380	12/16/15	12/20/15	CLP SOM02.3 B
129-00-0	Pyrene	15000		ug/kg dry	4900	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
243-17-4	11H-Benzo[b]fluorene	300	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
33543-31-6	Fluoranthene, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	400	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	9000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	900	NJ, CLP15	ug/kg dry		12/16/15	12/20/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.077		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.41		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.55		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.032	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.019	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0023	J, CLP01	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.25	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0019	J, CLP01	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.29		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.044	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.29		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	2.5	J	mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.37		mg/L	0.25	12/21/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.025		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
644-08-6	1,1-Biphenyl, 4-methyl-	0.008	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
132-75-2	1-Naphthaleneacetonitrile	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.08	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2523-39-9	9H-Fluorene, 3-methyl-	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
526-73-8	Benzene, 1,2,3-trimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
575-43-9	Naphthalene, 1,6-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
268-77-9	Naphtho[2,3-b]thiophene	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L21.5 **Lab ID:** C160301-45 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N48 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	0.02	J, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID: C160301-46** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N50 CHM**

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	220	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	16000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	80	U, J, QC-1, QS-3	ug/kg dry	80	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	380		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U, R, QS-4	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	57000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	150	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID: C160301-46** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N50 CHM**

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	83000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	2400		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	54	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	13000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	15000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	3800	J, CLP01	ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	6300		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	670		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	1800		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	10000	J, CLP01	ug/kg dry	12000	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	12000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	270		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	58000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	320		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	96000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	71000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID:** C160301-46 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N50 CHM

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	800		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	570000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	900000		ug/kg dry	120000	12/16/15	12/24/15	CLP SOM02.3 B
108-95-2	Phenol	91	J, CLP01	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	55000		ug/kg dry	6100	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
243-17-4	11H-Benzo[b]fluorene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
954-21-2	Nordiphenamid	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2381-21-7	Pyrene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
3442-78-2	Pyrene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	2000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID:** C160301-46 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N50 CHM

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.011		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.13	J, CLP01	mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.028		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.57		mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.0082	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.70		mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID:** C160301-46 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N50 CHM

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.041		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.0035	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.024		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.51	J, CLP01	mg/L	1.0	12/22/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.37	J, CLP01	mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.040		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.34		mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID:** C160301-46 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N50 CHM

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	4.4		mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.43	J, CLP01	mg/L	0.50	12/22/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.0015	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.022		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	0.009	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1470-94-6	1H-Inden-5-ol, 2,3-dihydro-	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
933-67-5	1H-Indole, 7-methyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
134-32-7	1-Naphthalenamine	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.09	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
10240-08-1	1-Naphthalenol, 4-methyl-	0.006	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
86-77-1	2-Dibenzofuranol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.009	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1730-37-6	9H-Fluorene, 1-methyl-	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
108-67-8	Benzene, 1,3,5-trimethyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.05	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L28.5 **Lab ID:** C160301-46 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N50 CHM

Date Collected: 12/11/15 12:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
95-13-6	Indene	0.4	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
575-41-7	Naphthalene, 1,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
90-43-7	o-Hydroxybiphenyl	0.06	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
101-53-1	Phenol, 4-(phenylmethyl)-	0.005	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	12		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	2000		ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	180000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	76	U, J, QC-1, QS-3	ug/kg dry	76	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	4000	J, CLP01	ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	380	U, J, CLP16	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	380	U, J, R, QI-1, QS-4	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	700000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	990		ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	190	U, J, QI-1	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID: C160301-47** **MD No:**

Station ID: L97 **Matrix: Surface Soil** **D No: 9N51 CHM**

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
100-02-7	4-Nitrophenol	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
83-32-9	Acenaphthene	1000000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	20000		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
98-86-2	Acetophenone	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	160000	J, CLP01	ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
1912-24-9	Atrazine	380	U, J, QI-1	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	170000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	28000		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	48000		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	6600		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	18000		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	190	U, R, QS-4	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	380	U	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	190	U, R, QS-4	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	380	U, R, QS-4	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	69000		ug/kg dry	11000	12/16/15	12/23/15	CLP SOM02.3 B
218-01-9	Chrysene	86000		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	2200		ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	680000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	190	U, R, QS-4	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	190	U, R, QS-4	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	190	U, J, R, QI-1, QS-4	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	380	U, R, QS-4	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	1100000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
86-73-7	Fluorene	840000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
118-74-1	Hexachlorobenzene (HCB)	190	U, J, QI-1	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	380	U, J, QC-1	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	6400		ug/kg dry	5800	12/16/15	12/23/15	CLP SOM02.3 B
78-59-1	Isophorone	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	1600000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	190	U	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	190	U, J, QI-1	ug/kg dry	190	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	380	U, J, QI-1	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	2300000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
108-95-2	Phenol	300	J, CLP01	ug/kg dry	380	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	750000		ug/kg dry	170000	12/16/15	12/25/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
243-17-4	11H-Benzo[b]fluorene	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
150096-60-9	3H-Benz[e]indene, 2-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1689-64-1	9H-Fluoren-9-ol	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
779-02-2	Anthracene, 9-methyl-	600	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
776-74-9	Benzene, 1,1-(bromomethylene)bis-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
264-09-5	Benzocycloheptatriene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
132-65-0	Dibenzothiophene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
496-11-7	Indane	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	3000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
571-58-4	Naphthalene, 1,4-dimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2531-84-2	Phenanthrene, 2-methyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
2381-21-7	Pyrene, 1-methyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	300	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.082		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.12	J, CLP02	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/22/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.31	J, CLP02	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.78		mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.048		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.75		mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.039		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.016		mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.016		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.55	J, CLP01	mg/L	1.5	12/22/15	12/31/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.41	J, CLP01	mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.036		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.35	J, CLP01	mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	6.9		mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.39	J, CLP01	mg/L	0.75	12/22/15	12/31/15	CLP SOM02.3 B
108-95-2	Phenol	0.0056	J, CLP01	mg/L	0.010	12/22/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.019		mg/L	0.0050	12/22/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
580-51-8	[1,1-Biphenyl]-3-ol	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
6306-07-6	1-Acenaphthenol	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1470-94-6	1H-Inden-5-ol, 2,3-dihydro-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
16096-32-5	1H-Indole, 4-methyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
134-32-7	1-Naphthalenamine	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
10240-08-1	1-Naphthalenol, 4-methyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
613-46-7	2-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
20294-32-0	6-Methyl-4-indanol	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.007	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
271-89-6	Benzofuran	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
620-22-4	Benzonitrile, 3-methyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.2	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.03	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	0.02	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.04	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 97L35.5 **Lab ID:** C160301-47 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N51 CHM

Date Collected: 12/11/15 12:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
90-43-7	o-Hydroxybiphenyl	0.1	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
527-35-5	Phenol, 2,3,5,6-tetramethyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
576-26-1	Phenol, 2,6-dimethyl-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
3354-58-3	Phenol, 2-methyl-6-(2-propenyl)-	0.01	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
101-53-1	Phenol, 4-(phenylmethyl)-	0.008	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
92-69-3	p-Hydroxybiphenyl	0.06	NJ, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.07	J, CLP15	mg/L		12/22/15	12/30/15	CLP SOM02.3 B

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Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1644012	% Moisture	16		%		12/16/15	12/21/15	CLP BNA
1319-77-3	(3-and/or 4-)Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	4300	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	79	U, J, QC-1	ug/kg dry	79	12/16/15	12/21/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	390	U, J, CLP16	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	15000	J	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B

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D.A.R.T. Id: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
83-32-9	Acenaphthene	23000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
208-96-8	Acenaphthylene	950		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
98-86-2	Acetophenone	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
120-12-7	Anthracene	3900	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
1912-24-9	Atrazine	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	4200	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	1100		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	2000		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	230		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	650		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
105-60-2	Caprolactam	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
86-74-8	Carbazole	3000		ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
218-01-9	Chrysene	3500	J, CLP01	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	82	J, CLP01	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	16000	J	ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	400		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
206-44-0	Fluoranthene	30000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
86-73-7	Fluorene	20000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B

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Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

Semi Volatile Organics

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
77-47-4	Hexachlorocyclopentadiene (HCCP)	390	U, J, QC-1	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
67-72-1	Hexachloroethane	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	270		ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
78-59-1	Isophorone	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
91-20-3	Naphthalene	39000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	200	U	ug/kg dry	200	12/16/15	12/21/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
85-01-8	Phenanthrene	57000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
108-95-2	Phenol	390	U	ug/kg dry	390	12/16/15	12/21/15	CLP SOM02.3 B
129-00-0	Pyrene	16000		ug/kg dry	6000	12/16/15	12/23/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
29338-49-6	1,1-Diphenyl-2-propanol	500	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
7320-53-8	Dibenzofuran, 4-methyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
95-13-6	Indene	800	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2131-42-2	Naphthalene, 1,4,6-trimethyl-	300	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
1127-76-0	Naphthalene, 1-ethyl-	700	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
90-12-0	Naphthalene, 1-methyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
829-26-5	Naphthalene, 2,3,6-trimethyl-	200	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	400	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
582-16-1	Naphthalene, 2,7-dimethyl-	1000	NJ, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	1000	J, CLP15	ug/kg dry		12/16/15	12/21/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
1319-77-3	(3-and/or 4-)Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
92-52-4	1,1-Biphenyl	0.12	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
95-94-3	1,2,4,5-Tetrachlorobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
123-91-1	1,4-Dioxane	0.0020	U, J, QS-3	mg/L	0.0020	12/21/15	12/30/15	CLP SOM02.3 B
58-90-2	2,3,4,6-Tetrachlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-95-4	2,4,5-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-06-2	2,4,6-Trichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
120-83-2	2,4-Dichlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-67-9	2,4-Dimethylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
51-28-5	2,4-Dinitrophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
121-14-2	2,4-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
606-20-2	2,6-Dinitrotoluene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-58-7	2-Chloronaphthalene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
95-57-8	2-Chlorophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
534-52-1	2-Methyl-4,6-dinitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
91-57-6	2-Methylnaphthalene	0.64		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
95-48-7	2-Methylphenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
88-74-4	2-Nitroaniline	0.0050	U, R, CLP27	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
88-75-5	2-Nitrophenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-94-1	3,3'-Dichlorobenzidine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
99-09-2	3-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
101-55-3	4-Bromophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
59-50-7	4-Chloro-3-methylphenol	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
106-47-8	4-Chloroaniline	0.010	U, J, QS-4	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
7005-72-3	4-Chlorophenyl phenyl ether	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
100-01-6	4-Nitroaniline	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-02-7	4-Nitrophenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
83-32-9	Acenaphthene	0.71		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
208-96-8	Acenaphthylene	0.043	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
98-86-2	Acetophenone	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
120-12-7	Anthracene	0.024	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
1912-24-9	Atrazine	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
100-52-7	Benzaldehyde	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
56-55-3	Benzo(a)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
50-32-8	Benzo(a)pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
205-99-2	Benzo(b)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
191-24-2	Benzo(g,h,i)perylene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
207-08-9	Benzo(k)fluoranthene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
85-68-7	Benzyl butyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-91-1	Bis(2-chloroethoxy)methane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
111-44-4	bis(2-Chloroethyl) Ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
39638-32-9	Bis(2-chloroisopropyl) ether	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
117-81-7	Bis(2-ethylhexyl) phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
105-60-2	Caprolactam	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
86-74-8	Carbazole	0.39	J, CLP01	mg/L	1.0	12/21/15	12/30/15	CLP SOM02.3 B
218-01-9	Chrysene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
53-70-3	Dibenzo(a,h)anthracene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
132-64-9	Dibenzofuran	0.38	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
84-66-2	Diethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
131-11-3	Dimethyl phthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
84-74-2	Di-n-butylphthalate	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
117-84-0	Di-n-octylphthalate	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
206-44-0	Fluoranthene	0.044	J	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
86-73-7	Fluorene	0.39	J, CLP01	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
118-74-1	Hexachlorobenzene (HCB)	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-68-3	Hexachlorobutadiene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
77-47-4	Hexachlorocyclopentadiene (HCCP)	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B

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SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
67-72-1	Hexachloroethane	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
193-39-5	Indeno (1,2,3-cd) pyrene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
78-59-1	Isophorone	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
91-20-3	Naphthalene	5.0	J	mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
98-95-3	Nitrobenzene	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
621-64-7	n-Nitroso di-n-Propylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
122-39-4	n-Nitrosodiphenylamine/Diphenylamine	0.0050	U	mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
87-86-5	Pentachlorophenol	0.010	U, J, CLP16	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
85-01-8	Phenanthrene	0.51		mg/L	0.50	12/21/15	12/30/15	CLP SOM02.3 B
108-95-2	Phenol	0.010	U	mg/L	0.010	12/21/15	12/30/15	CLP SOM02.3 B
129-00-0	Pyrene	0.025		mg/L	0.0050	12/21/15	12/30/15	CLP SOM02.3 B
Tentatively Identified Compounds:								
3218-36-8	[1,1-Biphenyl]-4-carboxaldehyde	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
148-86-7	[1,1-Biphenyl]-4-ol, acetate	0.008	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2235-15-6	1(2H)-Acenaphthylenone	0.006	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
1855-47-6	1-Isopropenylnaphthalene	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
132-75-2	1-Naphthaleneacetonitrile	0.005	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
86-53-3	1-Naphthalenecarbonitrile	0.1	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
63621-15-8	2,4-Nonadiyne	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
486-25-9	9H-Fluoren-9-one	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2523-37-7	9H-Fluorene, 9-methyl-	0.009	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
613-31-0	Anthracene, 9,10-dihydro-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
85-02-9	Benzo[f]quinoline	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
17059-52-8	Benzofuran, 7-methyl-	0.01	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
496-11-7	Indane	0.09	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
95-13-6	Indene	0.3	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2489-86-3	Naphthalene, 1-(2-propenyl)-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
2245-38-7	Naphthalene, 1,6,7-trimethyl-	0.007	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
575-37-1	Naphthalene, 1,7-dimethyl-	0.04	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 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: 16-0114
Project: 16-0114, Cape Fear Wood Preserving - Reported by Nancy Seabolt

SPLP SemiVolatiles

Project: 16-0114, Cape Fear Wood Preserving **Contract Lab Case: 45848**

Sample ID: 997L21.5 **Lab ID:** C160301-48 **MD No:**

Station ID: L97 **Matrix:** Surface Soil **D No:** 9N49 CHM

Date Collected: 12/11/15 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
Tentatively Identified Compounds:								
1127-76-0	Naphthalene, 1-ethyl-	0.03	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-40-8	Naphthalene, 2,3-dimethyl-	0.05	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
581-42-0	Naphthalene, 2,6-dimethyl-	0.02	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
612-60-2	Quinoline, 7-methyl-	0.007	NJ, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B
R4-6501	Unidentified Compound(s)	0.04	J, CLP15	mg/L		12/21/15	12/30/15	CLP SOM02.3 B

Attachment F. Results of 3D Analysis

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DRAFT 3-D VISUALIZATION AND DATA EVALUATION

CAPE FEAR WOOD PRESERVING SUPERFUND SITE
FAYETTEVILLE, CUMBERLAND COUNTY
NORTH CAROLINA

Submitted to

Black & Veatch Special Projects Corp.

Submitted by

Geosyntec consultants

engineers | scientists | innovators

Geosyntec Consultants of NC, PC
2501 Blue Ridge Road, Suite 430
Raleigh, North Carolina 27607

April 2016

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Figure 4 LIF Response Distribution
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Appendix A Cape Fear Wood Preserving TarGOST Analysis
Appendix B Memorandum: Black and Veatch Cape Fear Wood Preserving NAPL Evaluation

1.0 PURPOSE

Black & Veatch Special Projects Corp. (B&V) contracted Geosyntec Consultants of NC, PC (Geosyntec) to provide data evaluation support for the field effort conducted by B&V to further define the limits for remediation efforts at the Cape Fear Wood Preserving Superfund Site (CFWP) in Fayetteville, NC. This effort is an addendum to the 2010 NAPL Investigation Report (Black & Veatch, 2010). In 2009, 70 TarGOST® points were advanced at the site; an additional 33 TarGOST® points were advanced during the December 2015 event to fill data gaps.

Field methods are described in detail in the B&V report. TarGOST® logs, laboratory analytical results and soil boring logs referenced herein are presented in the appendices of the B&V report and are not duplicated here. There are two primary objectives for the data evaluation report: (i) to utilize three-dimensional evaluation of the laser induced fluorescence (LIF) results in conjunction with the associated analytical results to assess extent and volume of Non-Aqueous Phase Liquids (NAPL) present that may require treatment, and (ii) to perform statistical analysis of the LIF and analytical data to identify trends and/or correlations among the data points.

Figure 1 presents the TarGOST® locations that have been advanced at the site in 2009 and more recently in 2015. Based on the results and conclusions of previous investigations, there are two distinct NAPL areas designated herein as the northern plume and the southern plume. The line of cross-section A-A` traverses the northern plume and the southern plume is traversed by B-B`.

2.0 DATA ANALYSIS SUMMARY

Geosyntec conducted a three-dimensional evaluation of the TarGOST® data using C Tech's Environmental Visualization Software (EVS). EVS was used to estimate the extent of NAPL contamination and the volume of contaminated soils. Response values from the TarGOST® results were interpolated using kriging in three dimensions. A detailed description of the assumptions, methods, and input parameters is presented in **Appendix A** of this report.

Of the primary contaminants present in NAPL at the site, naphthalene has a higher potential than the other constituents of concern (COCs) to leach to groundwater and subsequently have the potential to migrate in groundwater. The heavier chain polyaromatic hydrocarbons (PAHs) have a very low potential to migrate in groundwater. Naphthalene was selected as a reference contaminant because it would leach to a higher degree and migrate further than other PAHs.

Given the large volume of data to work with, there were some initial parameters evaluated to assess objectives. The TarGOST® response (%RE), field observations, and the results of laboratory analysis along with the resulting correlations were considered when evaluating the data. **Figure 2** presents a cross-section of the northern plume comparing the average LIF %RE against the logged observations in the field of NAPL presence and the Synthetic Precipitation Leaching Procedure (SPLP) laboratory results for naphthalene; **Figure 3** presents the southern plume. For each of the two figures, where data was available for that boring, the SPLP naphthalene is on the left hand side, the field observation regarding the presence of NAPL is in center, and the LIF %RE is on the right hand side. Note that for the LIF data only boreholes within a few feet of the cross-section lines were included as representative. Boreholes for field observations and SPLP results were included from a larger distance to get a representative sample.

Figure 4 presents a plan view of the three-dimensional model results. The color of the diamonds corresponds to the maximum LIF %RE, regardless of the overall thickness of the impacted interval. The corresponding shading is a numerical representation of the model results using kriging to interpolate between points.

Figures 5 and 6 present the modeled LIF %RE in cross section for the northern and southern plumes along with the percent NAPL saturation results from PTS Laboratories, Inc. (PTS) and the field NAPL observations. **Appendix B** of this report presents a limited evaluation of the NAPL properties at the site. As expected, the modeled LIF %RE, the field observations and the %NAPL saturation results from PTS correlate relatively well. There is an inconsistency in **Figure 6** with respect to correlation between the TarGOST point for L08 and the boring log for TMW-N1 near the west northwest end of section B-B`. The majority of the field work conducted during December 2015 focused on the northern plume and no PTS data was collected in the vicinity of cross-section B-B`.

Figure 7 presents a plan view of the three dimensional representation of the SPLP naphthalene distribution. As mentioned earlier, naphthalene has the highest potential to leach among the COCs in groundwater at the site. The areas with the highest SPLP naphthalene results correspond closely to the higher LIF %RE results observed in the NAPL models. For reference, Geosyntec posted the groundwater sampling results of three adjacent monitoring wells, two of which are in the shallow water table aquifer, MW-03S and MW-31S, and one groundwater sample result from the intermediate aquifer at MW-04I; all samples were collected in December 2014. Although the NAPL and soils around the high SPLP response area have a high potential to leach, the results from the monitoring wells indicate that migration is retarded toward the northwest.

Figure 8 presents the same data in cross-section and adds the field NAPL observations. There are several notable features of this figure. Notably, boring L83 extends far deeper than the other borings and the model area is truncated below the adjacent TarGOST® points. SPLP results for L83 indicate that additional assessment may be required below the clay layer as there are several SPLP values at depth that exceed the North Carolina groundwater standard. Also, the northwest side of the cross section depicts higher naphthalene in the soil than what has been observed in groundwater sampling results.

Figures 9 and 10 present the plan view and cross section for total naphthalene in soil. The conclusions drawn for **Figures 7 and 8** are similar with the exception that the model treats the distribution of total naphthalene without the model remnants artificially extending the plume the way the SPLP model does.

Figure 11 presents slices of the three-dimensional model at elevations at five foot intervals from 230 feet above sea level (asl) to 205 feet asl. The highest modeled response appears to occur within the intervals between elevation 225 feet asl and 215 feet asl.

Figure 12 presents the top of the clay layer as a map. It has been generally assumed that there is a clay layer at a depth of approximately 30 feet that is somewhat uniform across the site and is competent enough to limit migration of NAPL downward. This assumption has largely been supported because the vertical gradient between the water table aquifer and the aquifer below the clay layer is at least 30 feet, indicating confined to semi-confined conditions.

According to the state-wide geologic map, the CFWP site falls within the Middendorf Formation, which has been described as a continental and fluvial depositional environment (Heron, 1958; Harrelson & Fine, 2006). The stratigraphy at the site includes sands, clayey sands and pure clay. The sands that are relatively free of clay would be consistent with deposition by a river (Pettijohn, 1957); clayey sands indicate deposition by turbid water on a river floodplain and pure clays indicate deposition on a floodplain (Heron, 1958). Similar stratigraphic descriptions for the Middendorf Formation have previously been described in the Fayetteville area and in South Carolina (Schipf, 1961).

Paleochannels appear to present at different locations across the site. Additional detailed cross sections may be warranted because paleochannels could form preferential pathways for DNAPL migration.

In addition to the kriging, several statistical analyses were conducted. A statistical software (R) was used to assess the normality and correlations of LIF, SPLP and soil results with a pairwise scatter plot (**Figures 13** and **14**). Datasets include the SPLP and soil results of 7 chemicals of interest (log-transformed) labelled with the prefix "l" for "log" and the first letters of the chemical name. Average, minimum, and maximum LIF responses for each depth associated with a soil sample are also included. The diagonal displays histograms, the upper corner scatter plots, and the lower corner a moving R^2 value. A moving R^2 does not restrain the line of best fit correlation to a straight line. High R^2 values of near 1 between the chemicals suggest a very strong correlation, when one chemical has a high concentration so do the others. It was therefore determined that naphthalene (which has high mobility and low environmental standards) could be used as a representative chemical for the majority of the visualizations. The correlation between the chemicals and the LIF data was generally low and, when linear correlation was tested, these correlations were substantially lower as can be predicted by the unsteady best fit lines in the scatter plots.

Figure 15 presents the correlation between total soil analytical results and SPLP results. When data was log-transformed, this correlation was very strong. In particular, there were two separate patterns. At low soil concentrations, there would be some leaching but it was fairly consistent up to approximately 2.5 log µg/L (300 µg/L) at which point SPLP results rose consistently with soil results. This suggests a minimum soil concentration at which chemicals begin to leach consistently.

Figure 16 attempts to show the correlation between the LIF %RE responses versus the % NAPL saturation data generated by PTS. The figure presents some inconsistencies. There appear to be two distinct data sets; one that shows a strong correlation within the data set with an R^2 of 0.97 and the second data set with a very poor correlation of 0.18. Considering the borings are adjacent to one another and are not the exact same borehole, it may be expected that there are spatial variations over a relatively short distance.

The final figures for the data evaluation are **Figures 17** and **18,** which present the estimated volume of NAPL impacted soil at the site. In the electronic version of this document, the three-dimensional model is interactive and will allow the user to zoom in or rotate the model to manipulate the view. The interpolation to estimate the volume corresponding with the LIF %RE was conducted using 90% confidence interval kriging, which is explained in more detail in **Appendix A**. This approach is considered to be conservative and for the volume of NAPL impacted soil greater than 20% LIF RE, the estimated volume of soil is approximately 18,500 cubic yards (**Figure 17**). The estimated volume of impacted soil greater than 40% LIF RE is approximately 1,400 cubic yards (**Figure 18**).

3.0 REFERENCES

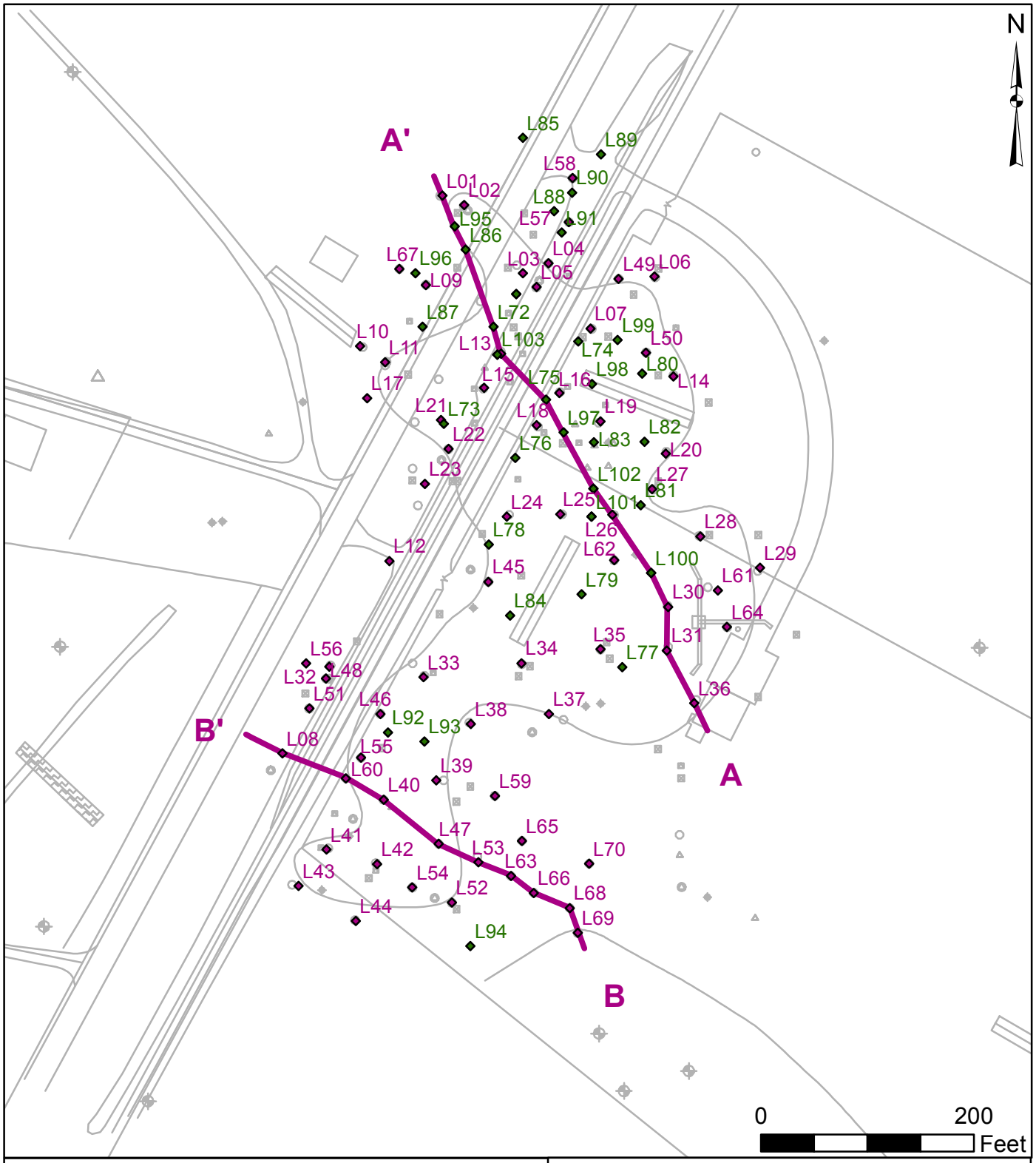
Heron, S.D. Jr. **Clay Minerals of the Outcropping Basal Cretaceous Beds Between the Cape Fear River, North Carolina, and Lynches River, South Carolina** *Clays and Clay Minerals 1958 7 : 148-161*

Schipf, Robert G., **Geology and Groundwater resources of the Fayetteville Area**, *Groundwater Bulletin No. 3, North Carolina Department of Water Resources*, 1961

Harrelson L.G. and Fine J. M., 2006 **Selected Well Data Used in Determining Ground-Water Availability in the North and South Carolina Atlantic Coastal Plain Aquifer Systems**, OFR 2006-1298

Pettijohn, F. J. (1957) **Sedimentary Rocks** (2nd Ed.): Harper, New York, 718 pp.

FIGURES



Legend

- 2015 LIF Borings
- 2009 LIF Borings
- Site Features

LIF Boring Locations

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC

April 2016

Figure 1

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Legend

LIF RE (%)

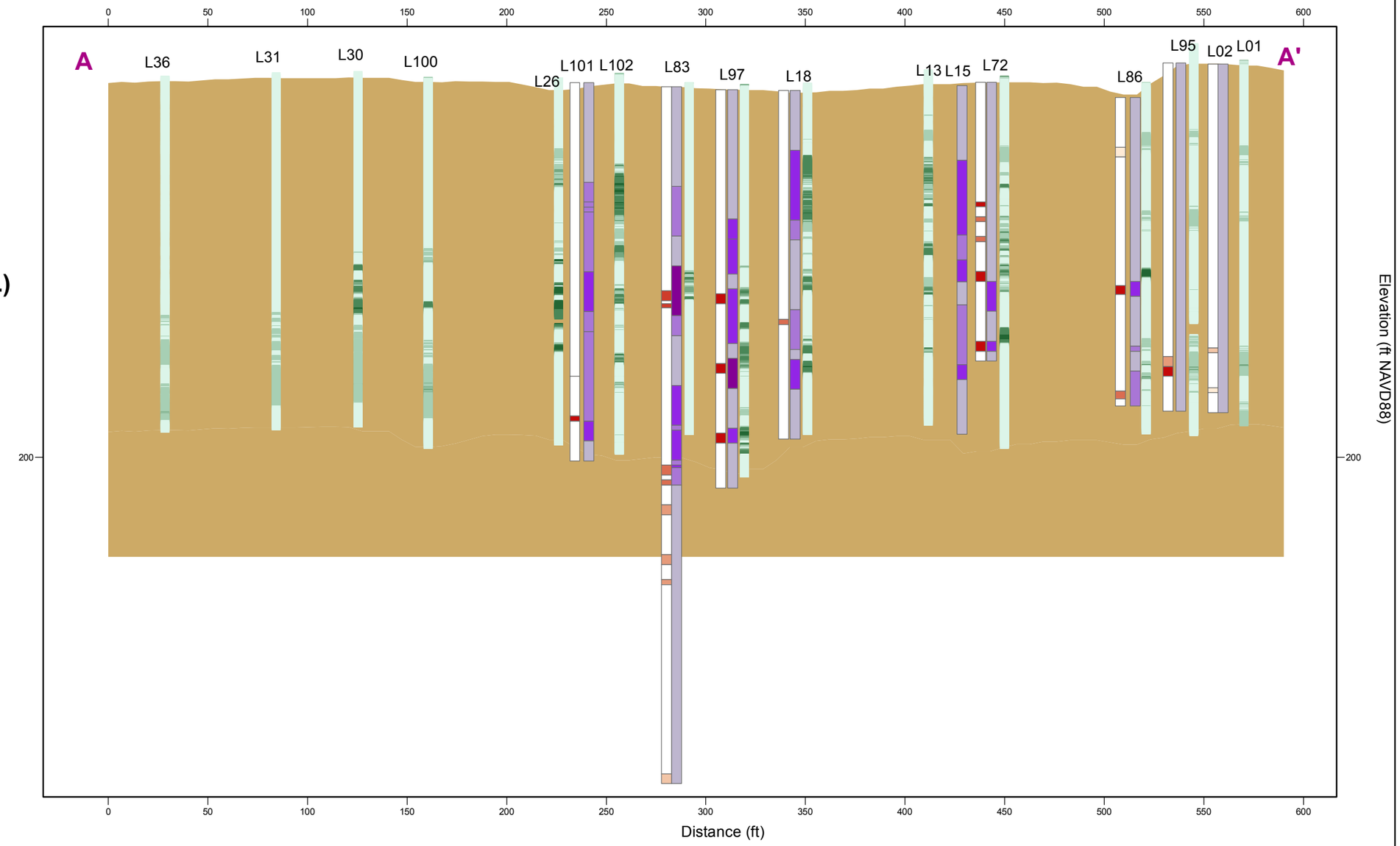
- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000

SPLP Naphthalene (ug/L)

- Not Sampled
- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated



LIF, SPLP and Field Observation Results
Cross-Section A-A'

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC | April 2016

Figure 2

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Legend

LIF RE (%)

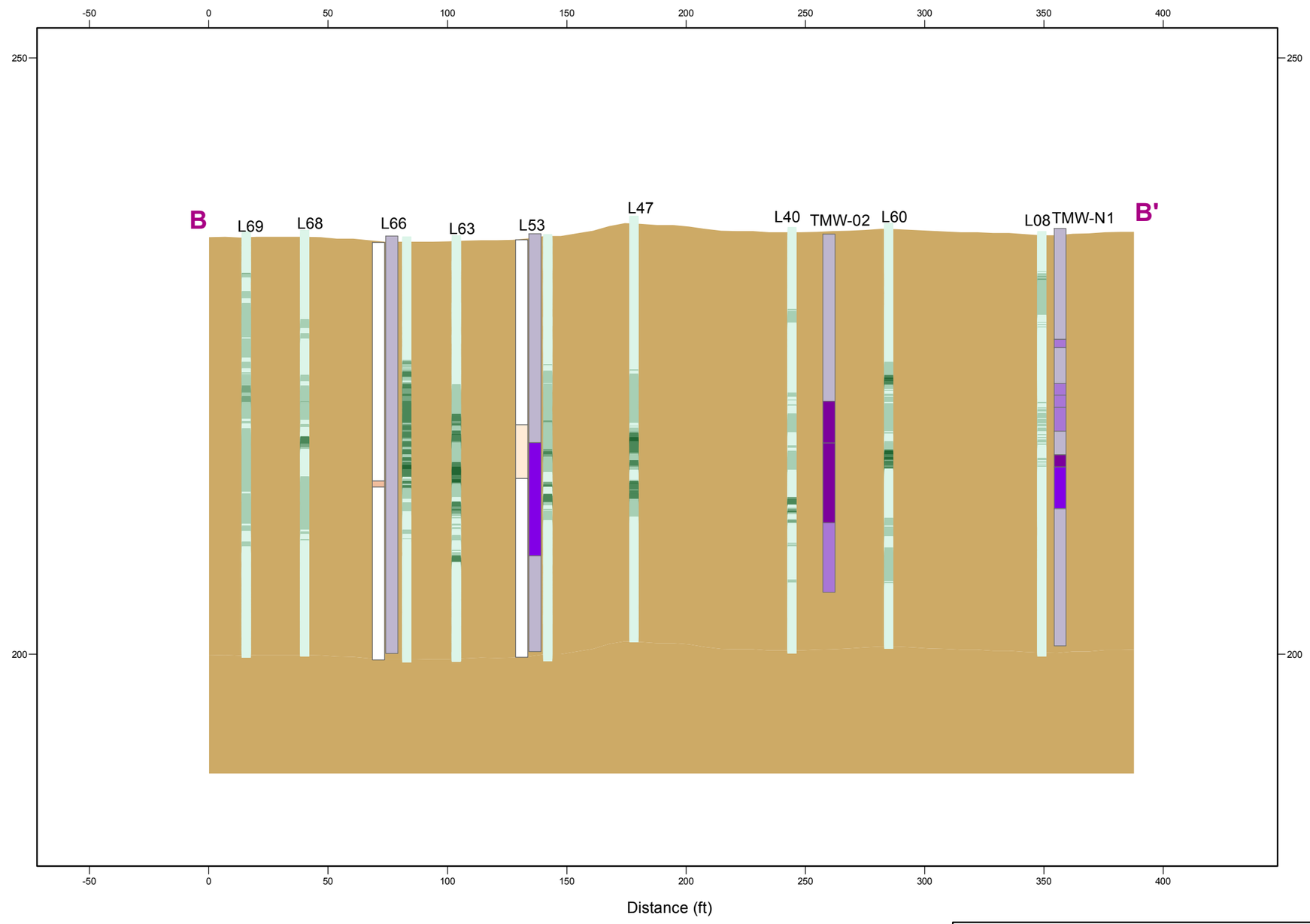
- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 100
- 100 - 1000

SPLP Naphthalene (ug/L)

- Not Sampled
- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated



LIF, SPLP and Field Observation Results
Cross-Section B-B'

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC | April 2016

Figure 3

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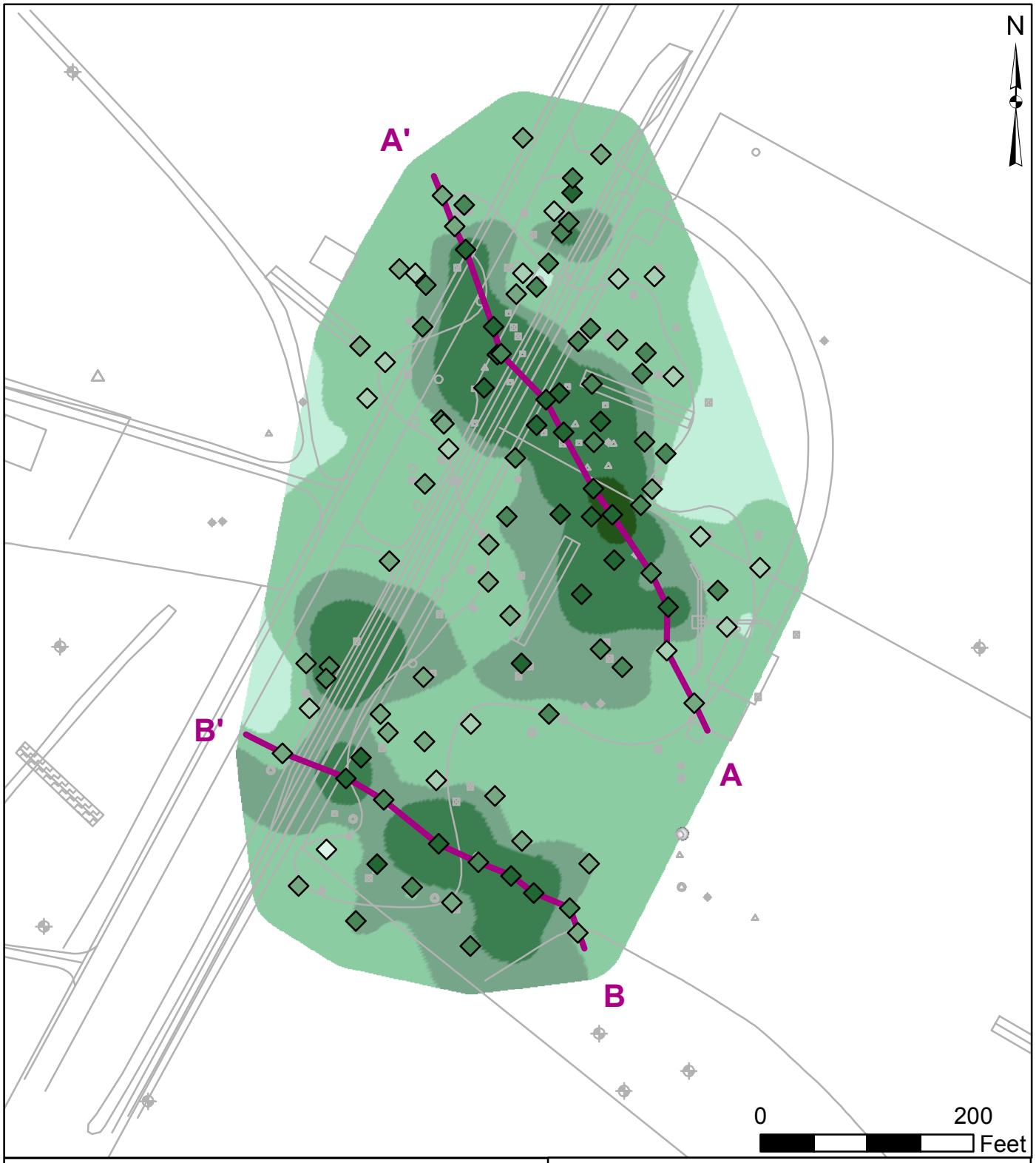

Legend

Maximum LIF RE (%)	Modeled LIF RE (%)
0-10	0-10
10-20	10-20
20-30	20-30
30-100	30-100
100-1000	100-1000
Site Features	

LIF Response Distribution

Cape Fear Wood Preserving Facility
Fayetteville, NC

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Figure 4

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Legend

LIF RE (%)

- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000

Modeled LIF RE (%)

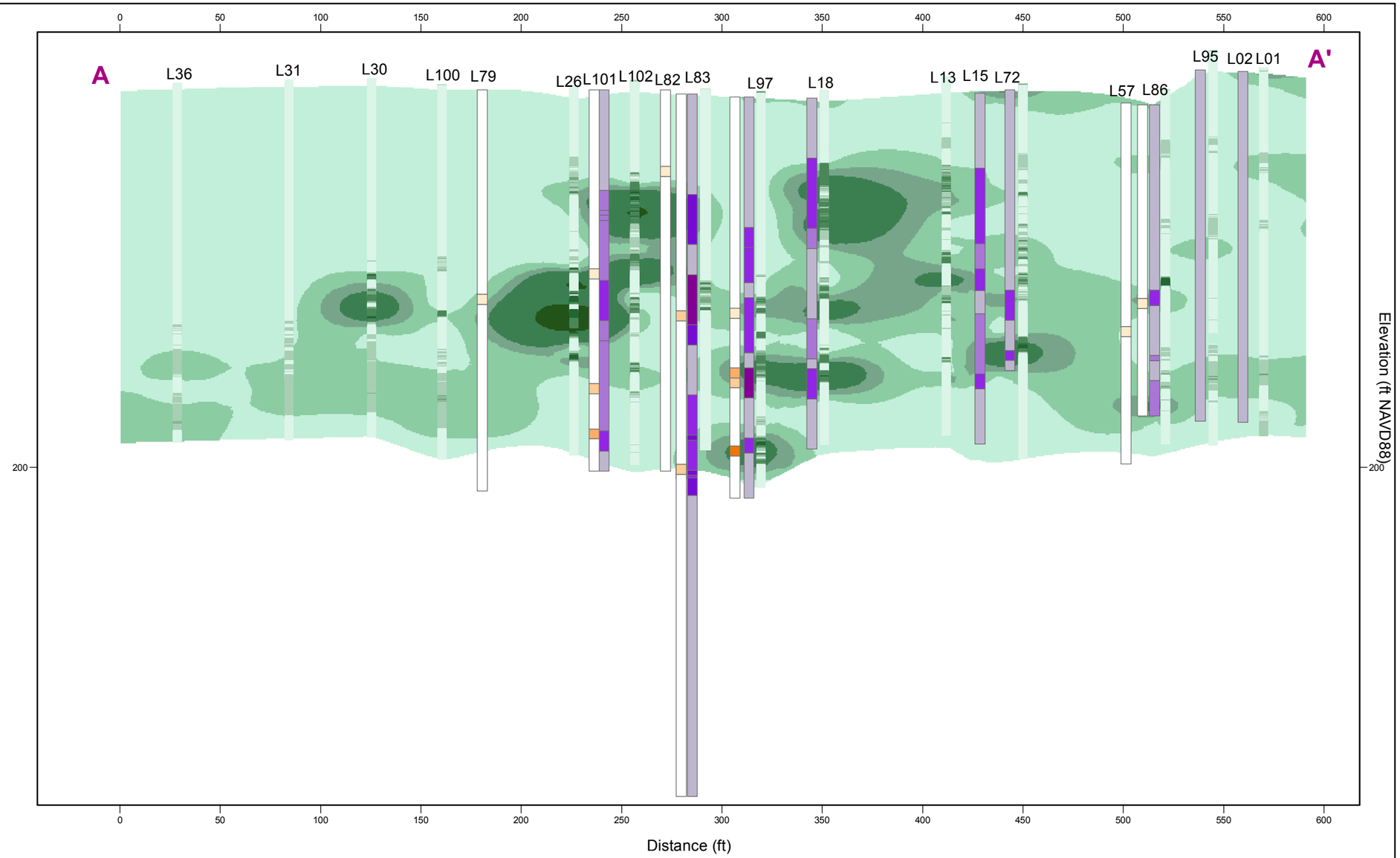
- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000

% NAPL Saturation

- Not Sampled
- 0-3
- 3-6
- 6-9
- 9-12

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated



LIF Response, PTS Data and Field Observations
Cross-Section A-A'

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

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Figure 5

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Legend

LIF RE (%)

- 0 - 10
- 10 - 20
- 20 - 30
- 30 - 100
- 100 - 1000

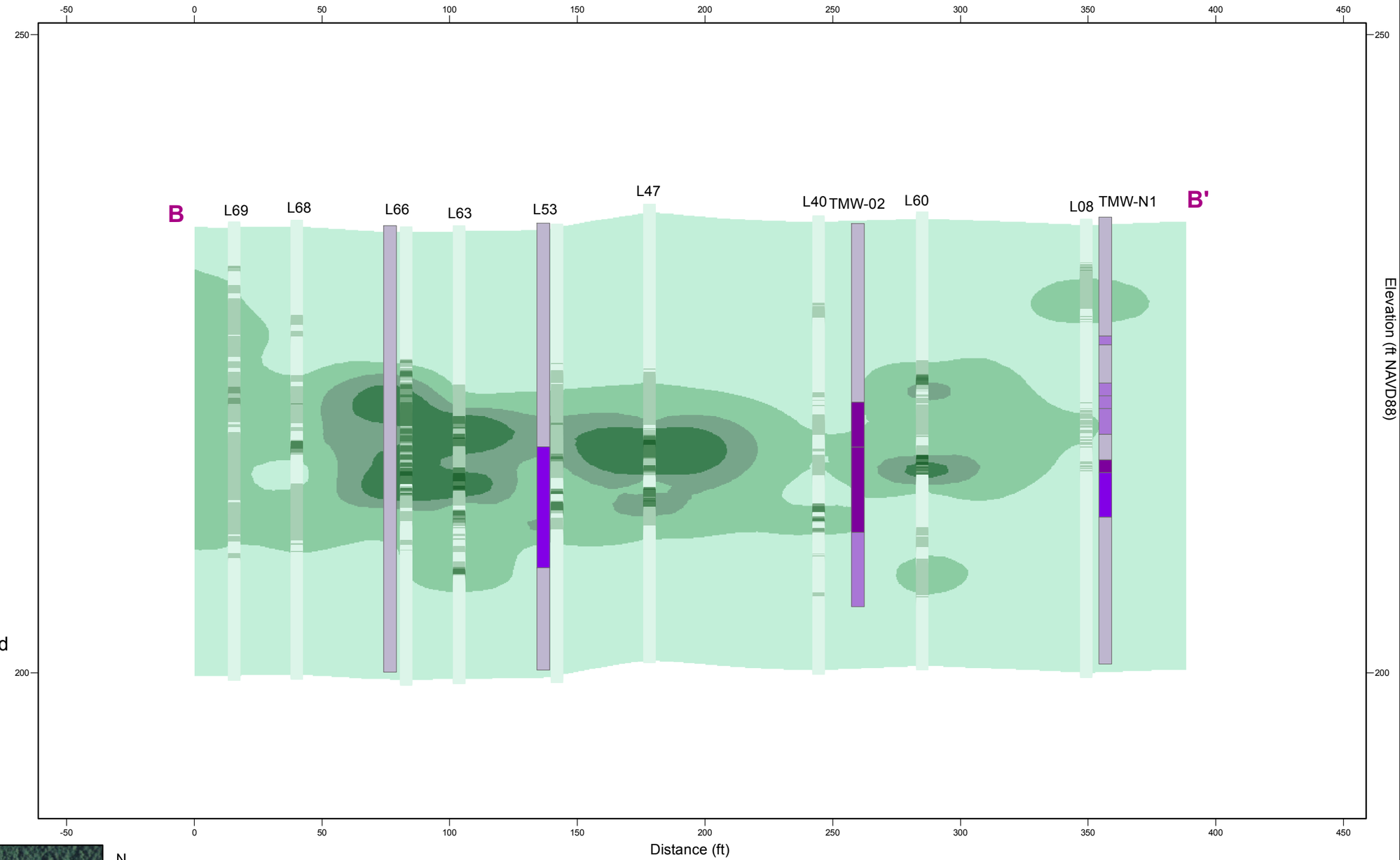
Modeled LIF RE (%)

- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated

Note: No PTS data was collected in the vicinity of Cross-Section B-B'



LIF Response and Field Observations
Cross-Section B-B'

Cape Fear Wood Preserving Facility
Fayetteville, NC

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Figure 6

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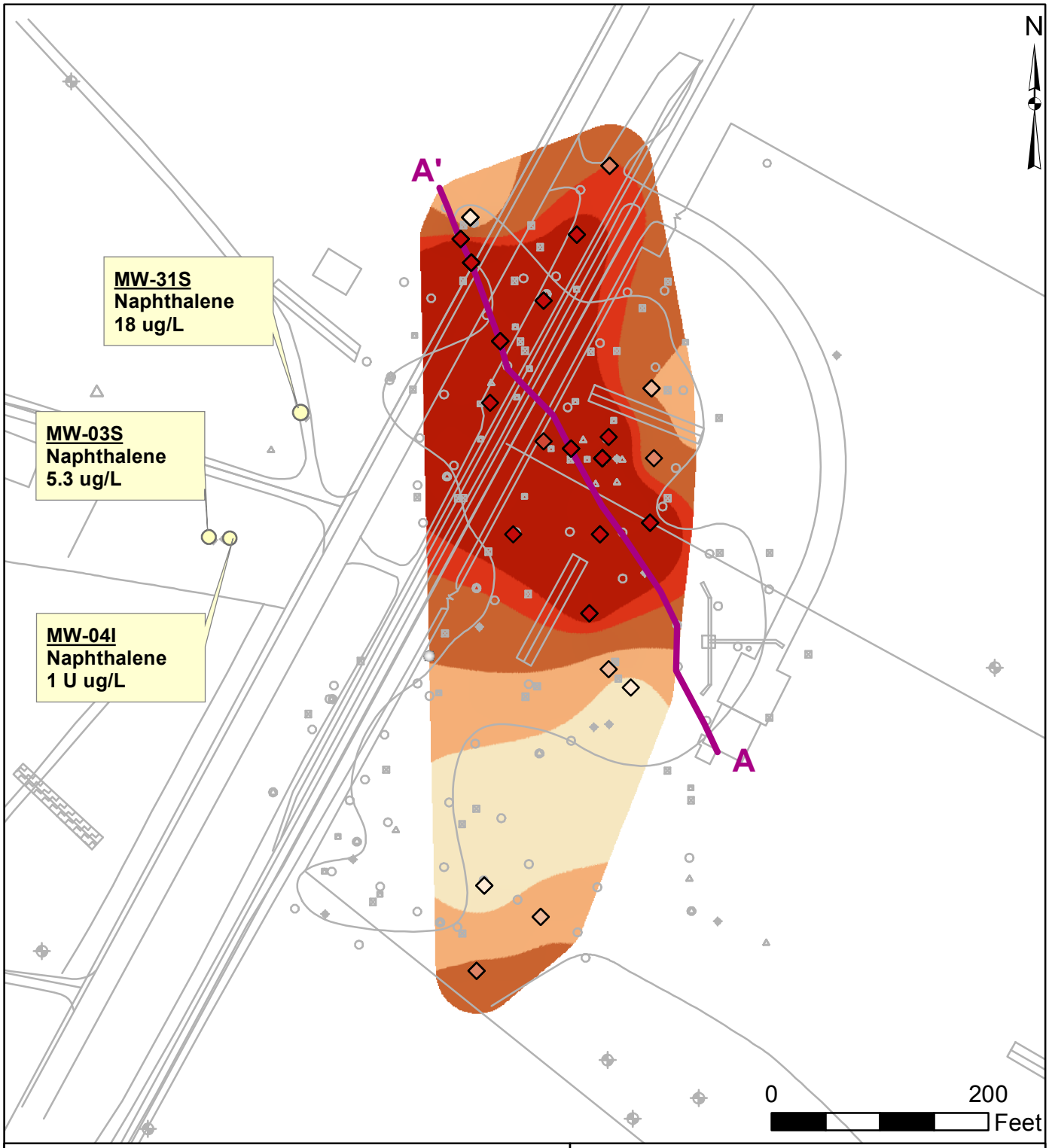

Legend

Maximum SPLP Naphthalene (ug/L)

- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

Modeled SPLP Napthalene (ug/L)

- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

Site Features

Groundwater data in callout boxes is from December 2014

NC 2L Groundwater Standard: 6 ug/L

SPLP Naphthalene Distribution

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC

April 2016

Figure 7

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Legend

Modeled SPLP Naphthalene (ug/L)

- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

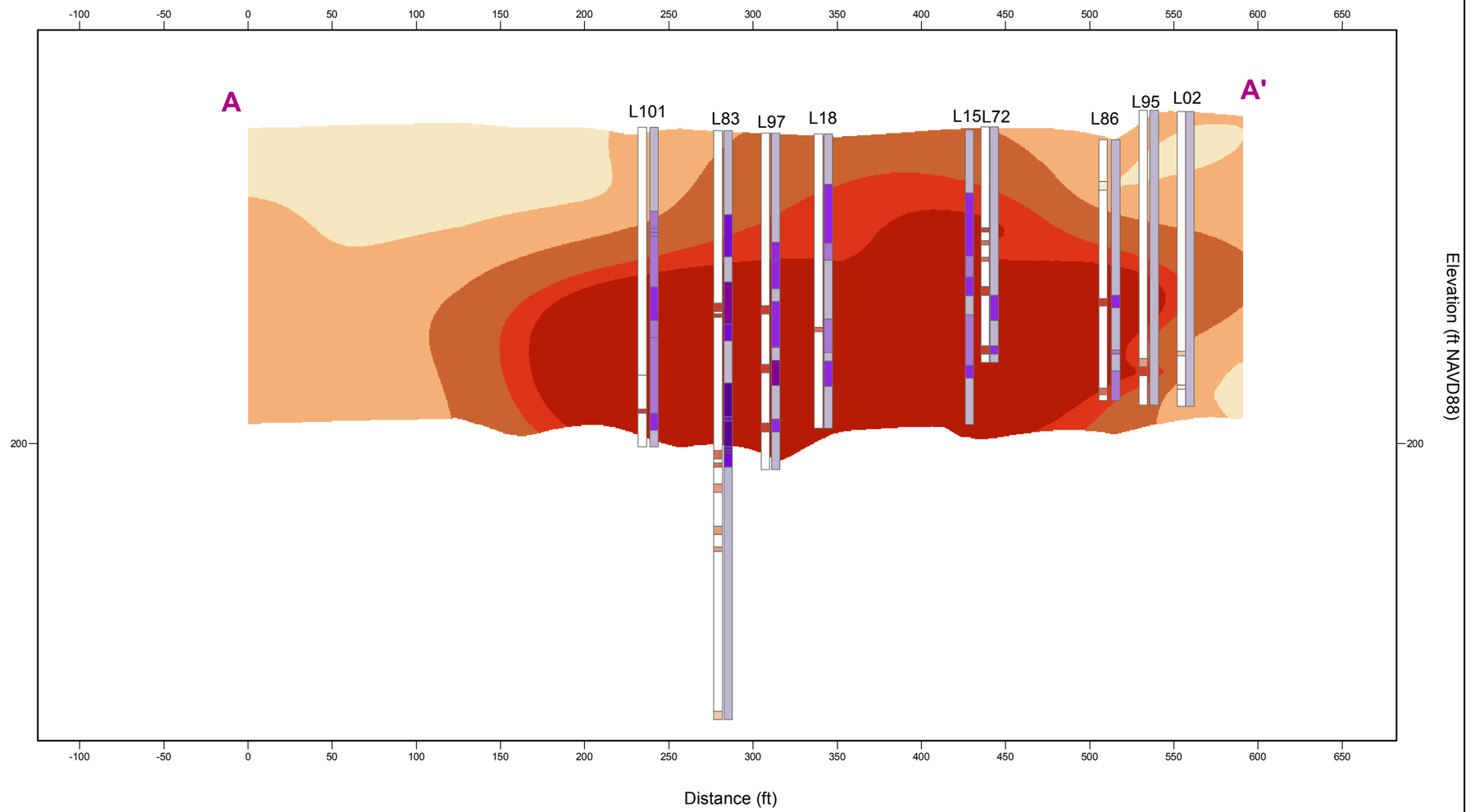
Sampled SPLP Naphthalene (ug/L)

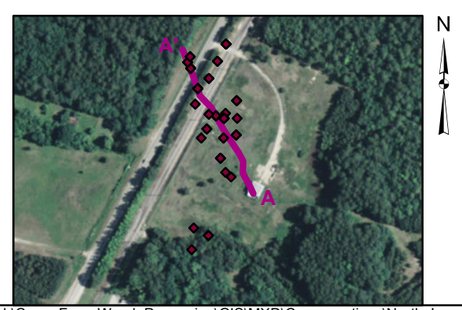
- Not Sampled
- 0-20
- 20-100
- 100-500
- 500-1000
- 1000-10000

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated

NC 2L Groundwater Standard: 6 ug/L





SPLP Naphthalene and Field Observations
Cross-Section A-A'

Cape Fear Wood Preserving Facility
Fayetteville, NC

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Figure 8

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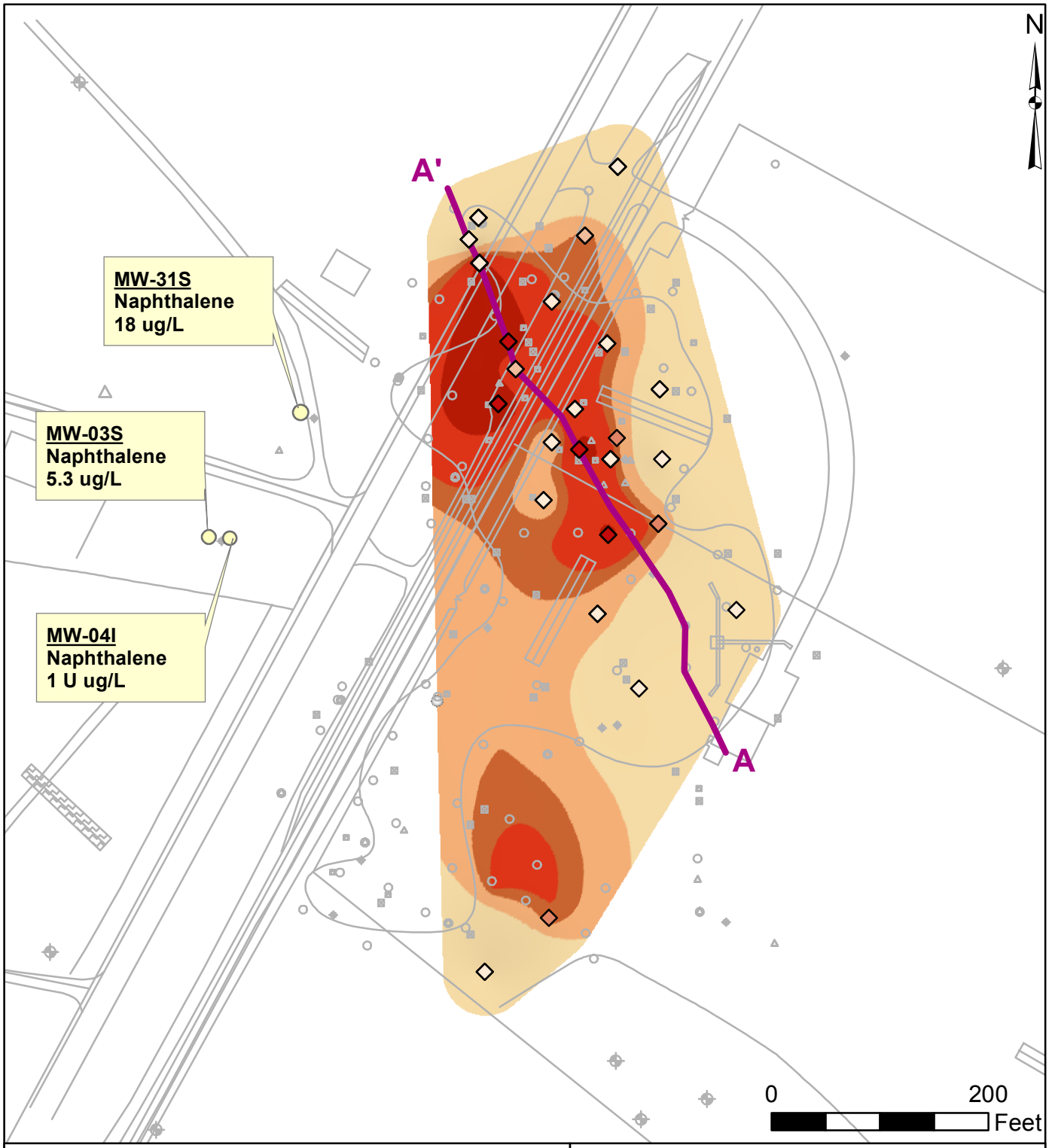

Legend

Maximum Soil Naphthalene (mg/kg)

- 0-10
- 10-50
- 50-100
- 100-500
- 500-5000

Modeled Soil Naphthalene (mg/kg)

- 0-10
- 10-50
- 50-100
- 100-500
- 500-5000

Site Features

Groundwater data in callout boxes is from December 2014
NC 2L Groundwater Standard: 6 ug/L

Soil Naphthalene Distribution

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC | April 2016

Figure 9

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Legend

Modeled Soil Naphthalene (mg/kg)

- 0-10
- 10-50
- 50-100
- 100-500
- 500-5000

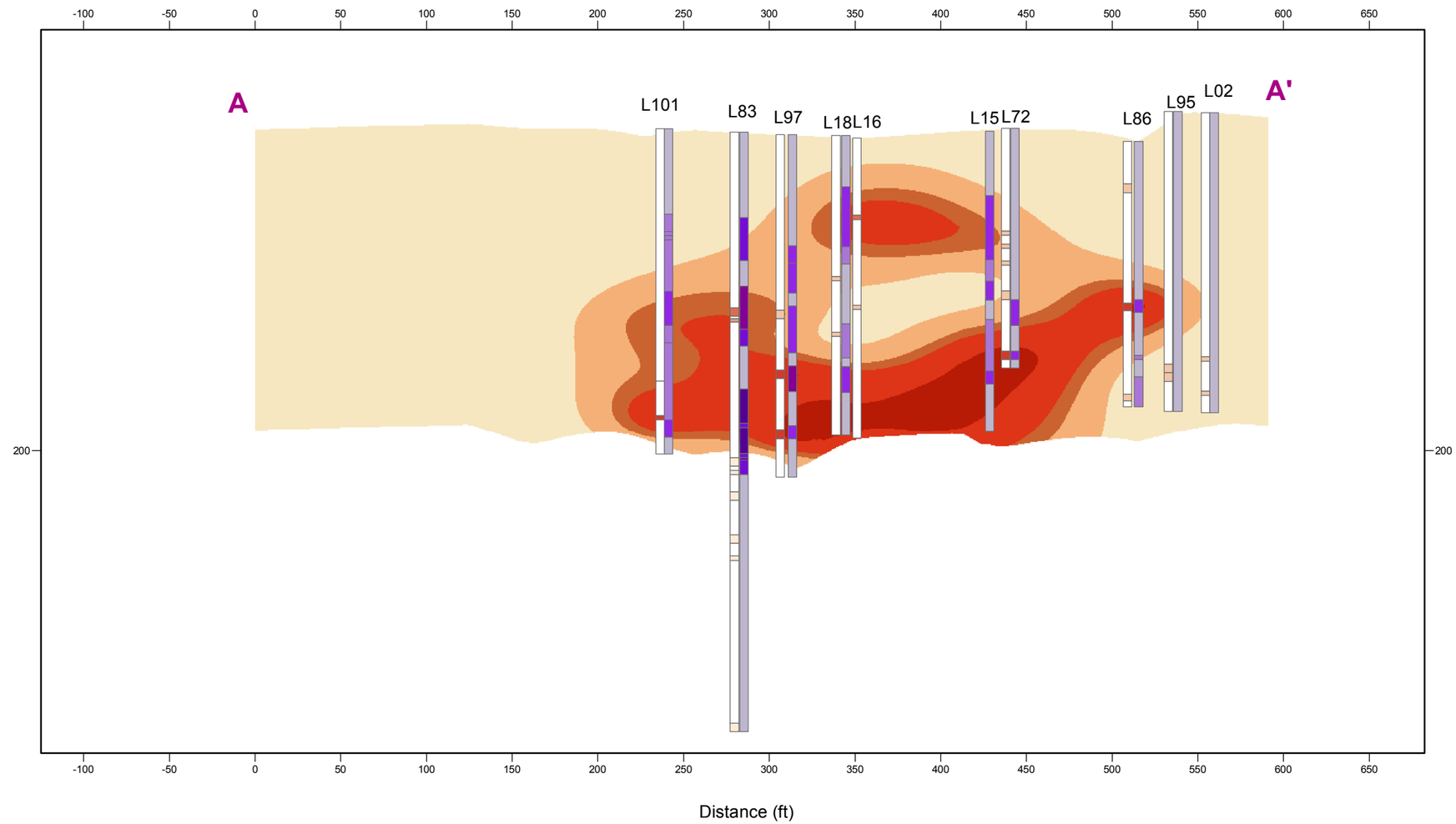
Sampled Soil Naphthalene (mg/kg)

- Not Sampled
- 0-10
- 10-50
- 50-100
- 100-500
- 500-5000

Field NAPL

- No Observations
- Odor
- Stain or Sheen
- Product or Saturated

NC 2L Groundwater Standard: 6 ug/L



Soil Naphthalene and Field Observations
Cross-Section A-A'

Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC | April 2016

Figure 10

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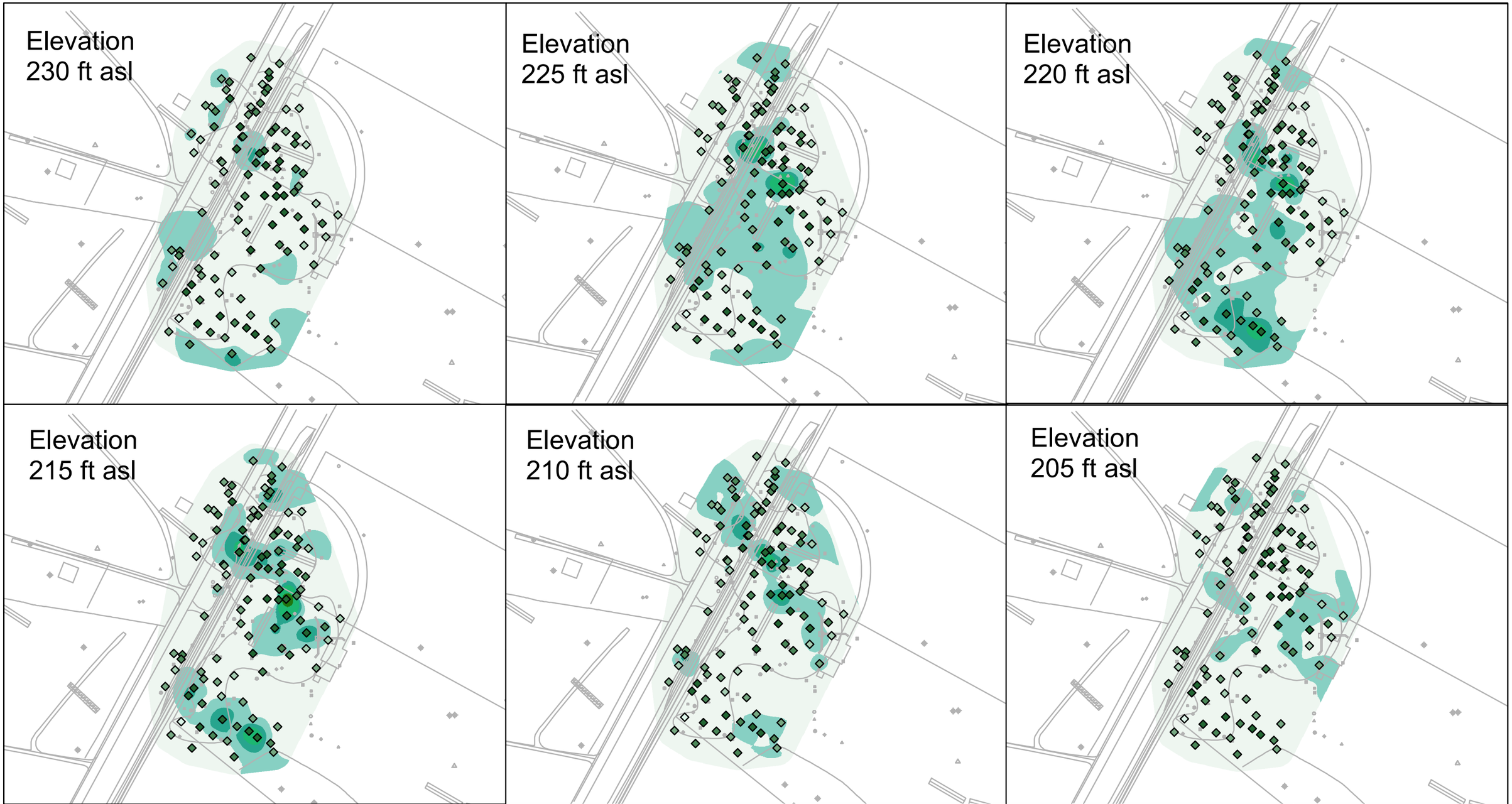


Maximum LIF RE (%)

- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000
- Site Features

Modeled LIF RE (%)

- 0-10
- 10-20
- 20-30
- 30-100
- 100-1000

N

0 1,600 Feet

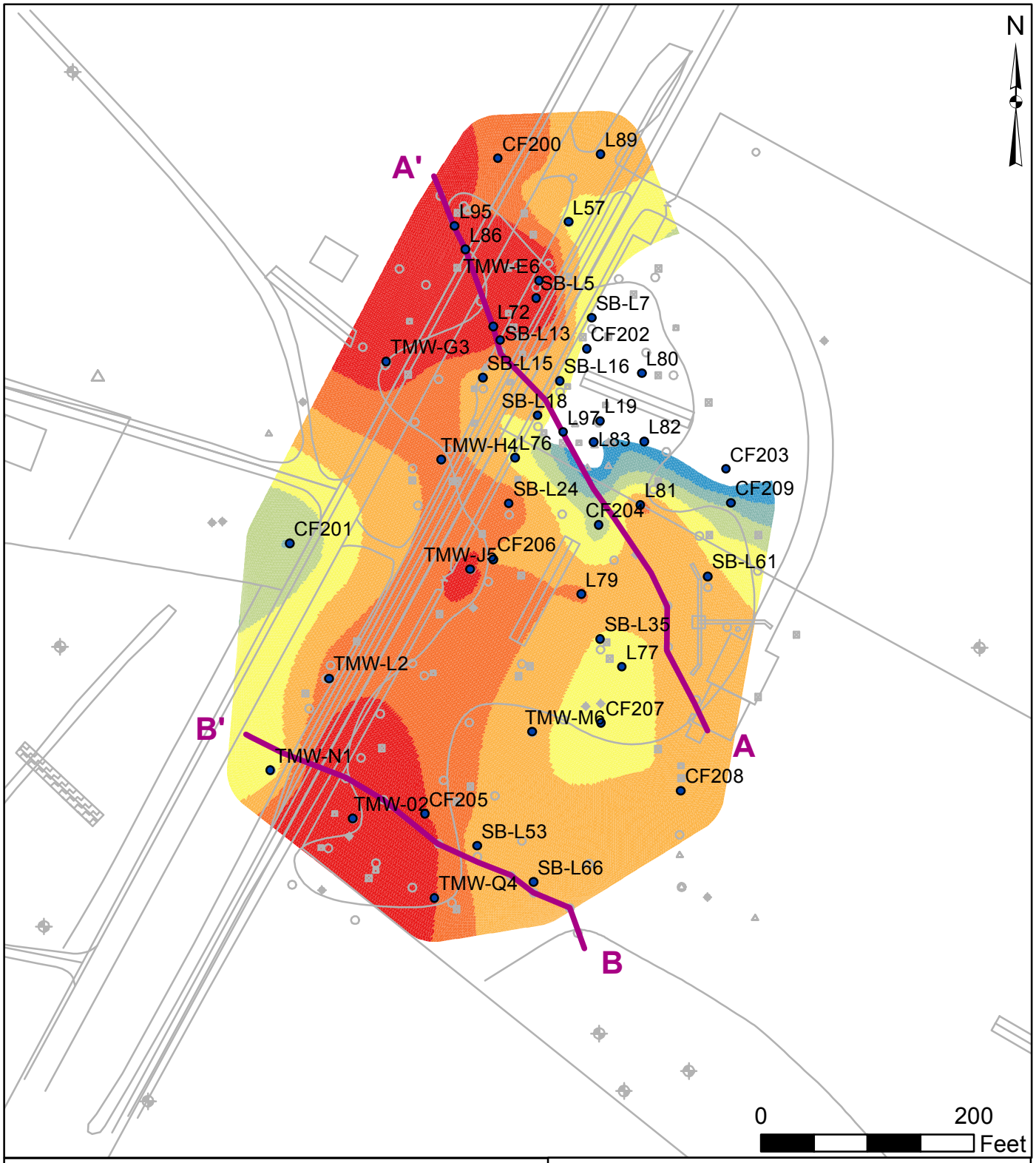
LIF Responses by Elevation
3D Model Slices
Cape Fear Wood Preserving Facility
Fayetteville, NC

Geosyntec consultants

Raleigh, NC | April 2016

Figure 11

Z:\Black & Veatch\Cape_Fear_Wood_Preserving\GIS\MXD\PlanViews\Slices_TarGOST.mxd 3/18/2016 5:43:04 PM



Legend

Estimated Top of Clay Elevation (ft NAVD88)

- <198
- 198-200
- 200-202
- 202-204
- 204-206
- 206-208
- >208

Site Features

Sample Location

Top of Clay Layer

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Figure 12

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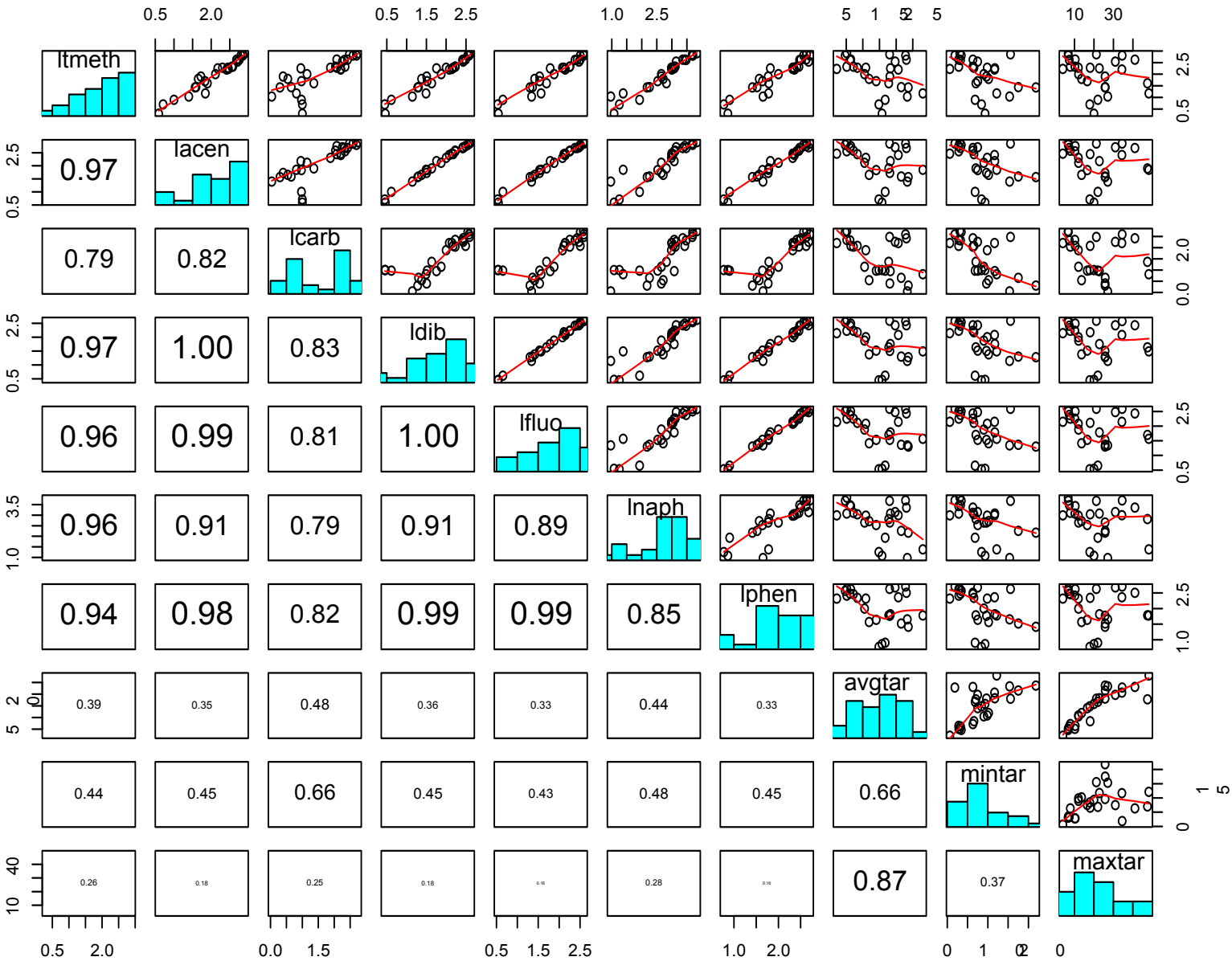
Figure 13

Pairwise Scatter Plots of SPLP Chemicals (log- transformed) and LIF Responses



ltmeth	log-transformed SPLP 2-methylnaphthalene
lacen	log-transformed SPLP acenaphthene
lcarb	log-transformed SPLP carbazole
ldib	log-transformed SPLP dibenzofuran
lfluo	log-transformed SPLP fluorene
lphen	log-transformed SPLP phenanthrene
avgtar	average TarGOST response over depth interval at which soil was sampled
mintar	minimum TarGOST response over depth interval at which soil was sampled
maxtar	maximum TarGOST response over depth interval at which soil was sampled

Analysis conducted using R statistical software 8 March 2016 by A. Kenwell
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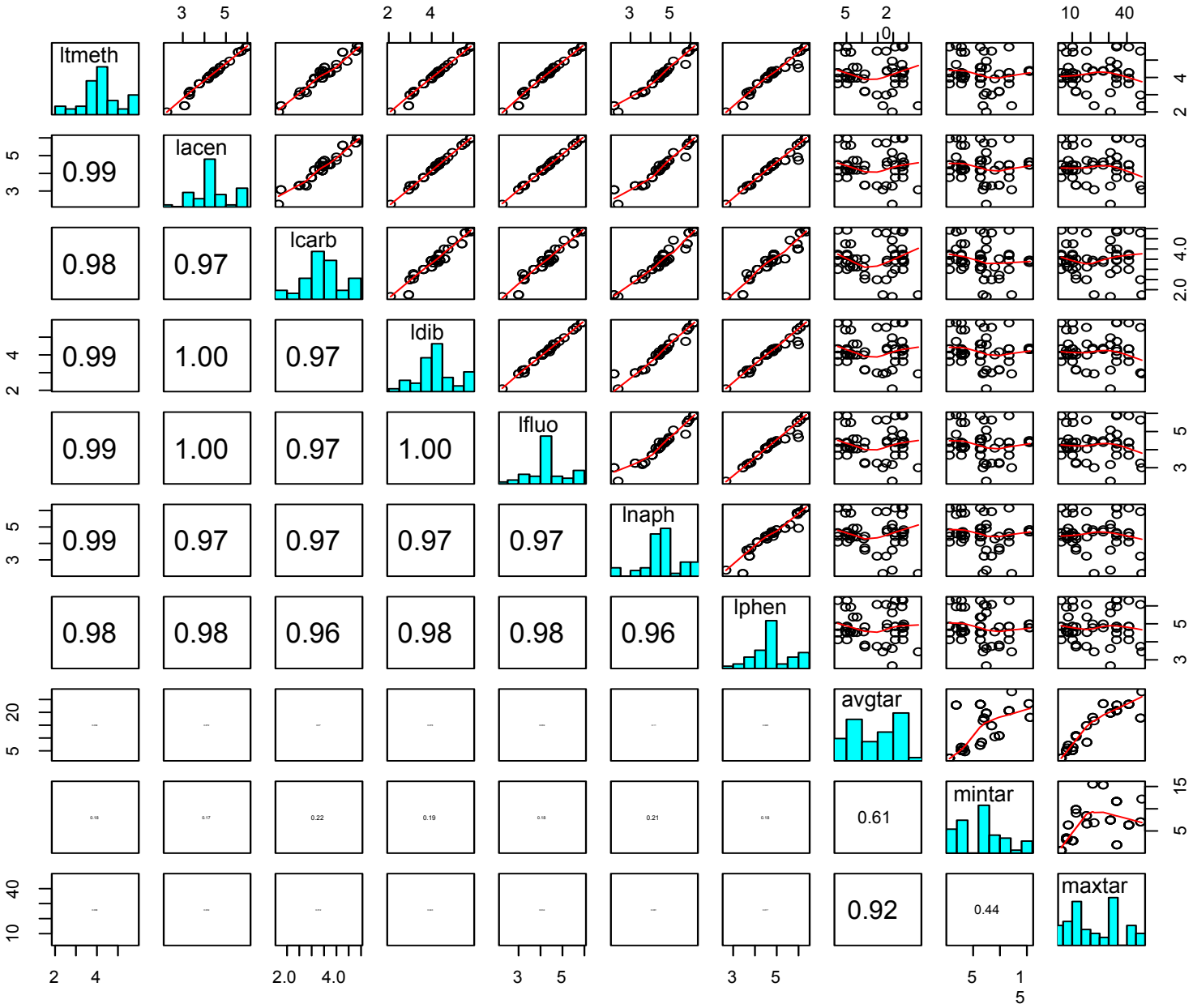
Figure 14

Pairwise Scatter Plots of Soil Chemicals (log- transformed) and LIF Responses



ltmeth	log-transformed Soil 2-methylnaphthalene
lacen	log-transformed Soil acenaphthene
lcarb	log-transformed Soil carbazole
ldib	log-transformed Soil dibenzofuran
lfluo	log-transformed Soil fluorene
lphen	log-transformed Soil phenanthrene
avgtar	average TarGOST response over depth interval at which soil was sampled
mintar	minimum TarGOST response over depth interval at which soil was sampled
maxtar	maximum TarGOST response over depth interval at which soil was sampled

Analysis conducted using R statistical software 8 March 2016 by A. Kenwell
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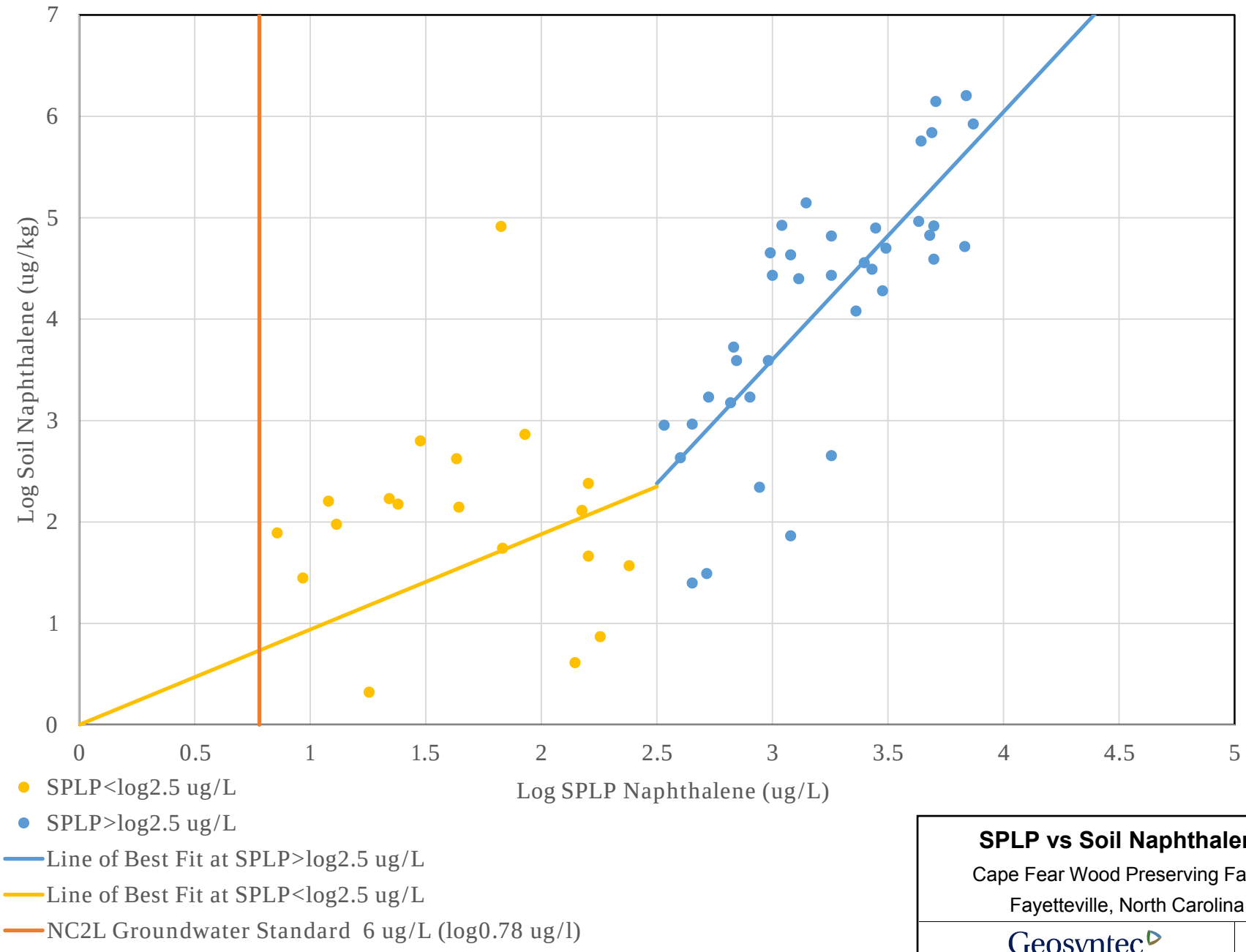

Note: Line of best fit for SPLP<log2.5 ug/L was extrapolated to zero

SPLP vs Soil Naphthalene

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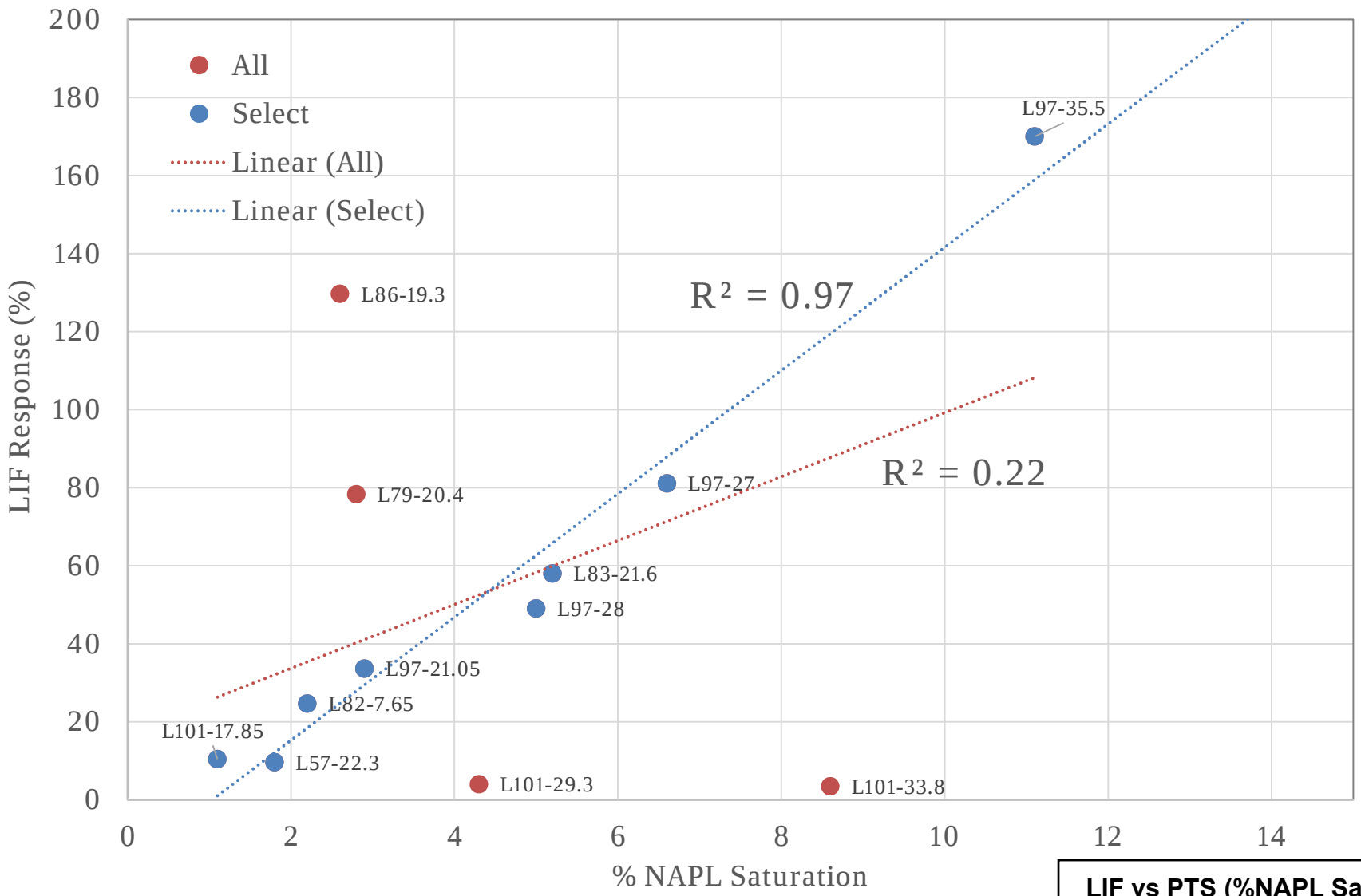
Figure 15

aro-01:\Black & Veatch\Cape Fear Wood Preserving\Statistics\RCapeFear\Soil\vs.leach



Note: the R^2 of 0.97 corresponds to the select dataset while the R^2 of 0.22 corresponds to the full dataset

LIF vs PTS (%NAPL Saturation)

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Figure 16

aro-01:\Black & Veatch\Cape Fear Wood+Preserving\Database\Build\PTS

90% Confidence Interval Kriging			
	Estimated Soil Volume (CY)		
Elevation	20% LIF RE	30% LIF RE	40% LIF RE
Whole Model	18,503	4,327	1,404
>230	811	70	14
225-230	2,661	683	240
220-225	4,454	617	158
215-220	6,909	2,179	733
210-215	2,689	554	215
<205	-	-	-

Estimated Volume of NAPL Impacted Soil
20%RE Plume

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Figure **17**

aro-01:\Black & Veatch\Cape Fear Wood Preserving\Statistics\RCapeFear\SoilVsLeach

90% Confidence Interval Kriging			
	Estimated Soil Volume (CY)		
Elevation	20% LIF RE	30% LIF RE	40% LIF RE
Whole Model	18,503	4,327	1,404
>230	811	70	14
225-230	2,661	683	240
220-225	4,454	617	158
215-220	6,909	2,179	733
210-215	2,689	554	215
<205	-	-	-

Estimated Volume of NAPL Impacted Soil
40%RE Plume

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Figure **18**

arc-01:\Black & Veatch\Cape Fear Wood Preserving\Statistics\RCapeFear\Soilvs.each

Appendix A

Cape Fear Wood Preserving TarGOST Analysis

Written by:	**Raphael Siebenmann**	Date:	**4/1/2016**	Reviewed by:	**Beau Hodge**	Date:	**4/1/2016**
Client:	**Black & Veatch**	Project:	**Cape Fear Wood Preserving**	Project/ Proposal No.:	**GR5895**	Phase No.:	**06**

Cape Fear Wood Preserving TarGOST Analysis

PURPOSE

The purpose of this calculation package is to document the assumptions, methods, and results of the three-dimensional evaluation of a laser induced fluorescence (LIF) investigation using Tar-specific Green Optical Screening Tool (TarGOST) data collected from the Cape Fear Wood Preserving Site (Site) in Fayetteville, North Carolina. TarGOST data has been collected from 103 locations during testing events in 2009 and 2015. C Tech's Environmental Visualization Software (EVS) was used to evaluate the data on a 3-Dimensional basis. This evaluation is designed to estimate the extent of NAPL contamination and estimate the volume of these contaminated soils.

ASSUMPTIONS

The evaluation was performed using available TarGOST LIF data. LIF data is represented on the TarGOST® plots as %RE (reference emitter). The %RE semi-quantitatively corresponds to the amount of NAPL present. C-Tech's Data Reduction Tool was used to reduce the full LIF data set. The Data Reduction tool is designed to reduce the number of data points to maximize computational efficiency while maintaining accuracy. Per discussion with Dakota Technologies, data was reduced using the average at the geometric centroid.

Based on previous evaluations of the fluorescence channel waveform responses logged at the Site, NAPL presence for this Site is defined in the 2010 NAPL Investigation Report (Black & Veatch, 2010):

- Locations with %RE at approximately 150 and higher at this Site are considered to be free-phase mobile NAPL.
- Locations with %RE responses at approximately 20 and lower are considered clean.
- Locations with %RE responses >20 and <150 are considered to have residual NAPL.

An in-depth description of the TarGOST equipment, procedure, and fluorescence response provided by Dakota Technologies is included in Appendix B of the 2010 NAPL Investigation Report.

The vertical extent of the model was defined using the bottom each sampling core.

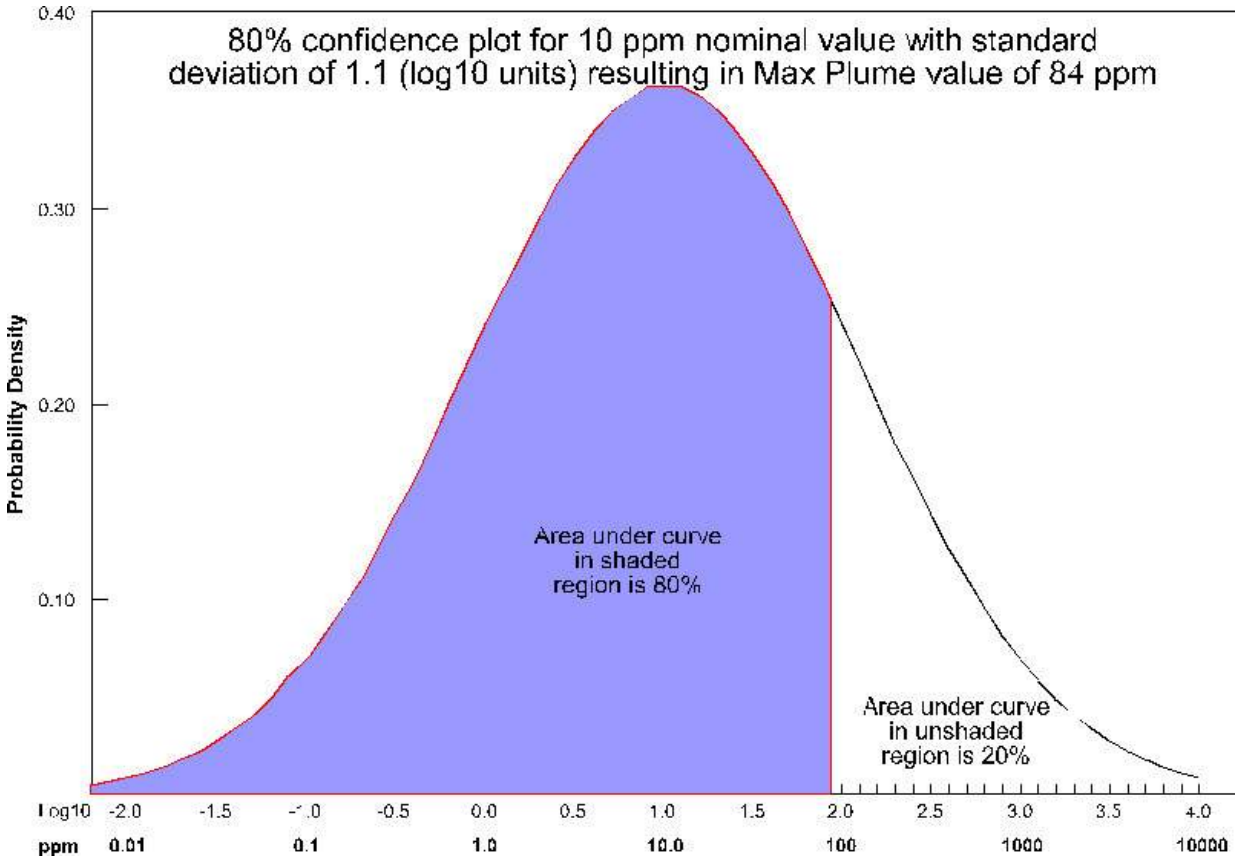
METHODS

Response values from TarGOST® results were interpolated using kriging. Kriging is a stochastic technique similar to inverse distance weighted averaging in that it uses a linear combination of weights at known points to estimate the value at the grid nodes. Kriging is named after D.L. Krige, who used kriging's underlying theory to estimate ore content. Kriging uses a variogram (a.k.a. semivariogram) which is a representation of the spatial and data differences between some or all possible "pairs" of points in the measured data set. The variogram then describes the weighting factors that will be applied for the interpolation.

In order to evaluate the uncertainty of the TarGOST dataset and estimate an upper bound of the extent of NAPL, the LIF data was interpolated using EVS's minimum (Min) and maximum (Max) Plume algorithm. The Min Plume calculates the minimum estimated size of the source area at a user-specified confidence level. Conversely, the Max Plume calculates the maximum estimated size of the source area at a user-specified confidence level. To determine the confidence level of the interpolation, EVS first calculates the nominal value and associated standard deviation at

every node in the model. For example, using the case of Max Plume and 80% confidence, at each node, a maximum value is determined such that 80% of the time, the actual values will fall below the maximum value (for that nominal concentration and standard deviation). This process is shown below as an example directly from the CTech Help Manual for the case of an assumed nominal value of 10 ppm with a standard deviation of 1.1 (log units). For this case, the maximum value at that node would be approximately 84 ppm. This process is repeated for every node (tens or hundreds of thousands) in the model.

For the plot shown below (from the CTech Help Manual), the entire left portion of the bell curve is shaded. If assessing the minimum value, it would be the right side.



The model input parameters used in the kriging as provided below.

Written by: **Raphael Siebenmann** Date: **4/1/2016** Reviewed by: **Beau Hodge** Date: **4/1/2016**

Client: **Black & Veatch** Project: **Cape Fear Wood Preserving** Project/ Proposal No.: **GR5895** Phase No.: **06**

MODEL INPUT PARAMETERS

Parameter[1]	Default (Yes/No)[2]	Value/Setting	Description/Explanation[3]
Geology Setup			
Search Distance	Yes	0	The search distance (reach) field defines the radial distance (in user units - ft in this case) from any given model node that the kriging module will look for data points to be included in the estimation of the model parameter at that node. The default value of reach is 0, which results in the module calculating a reach value, which is approximately two-thirds of the longest distance between any two data points in the data set.
Points	Yes	20	The Points parameter defines the maximum number of data points (within the specified reach) that will be considered for the parameter estimation at a model node. The default value for points is 20, which generally provides reasonably smooth modeled parameter distributions.
Quadrant Search	Yes	Disabled	The Quadrant Search toggle changes the method by which data sample points are selected for inclusion in the kriging matrix. If this is on, the "Points" parameter switches to "Max Points in Quadrant". The geology was modeled as one unit, therefore quadrant search was disabled.
X Res/ Y Res	Yes	81/81	The X Res and Y Res parameters specify the number of grid nodes that will be included within the model domain.
Convex Hull	Yes	10% Boundary Offset	The convex hull of a set of points in two-dimensional space is the smallest convex area containing the set. In the x-y plane, the convex hull can be visualized as the shape assumed by a rubber band that has been stretched around the set and released to conform as closely as possible to it. The Boundary Offset parameter sets the distance that the convex hull for the kriging domain will be set outside of the actual convex hull of the data. This parameter allows the user to specify the distance outside of the actual data in which the parameter values will be extrapolated. The distance is a percentage of the diagonal extent in the X-Y plane.
Chemistry Setup			
X / Y / Z Resolution	No	81/81/70	The X / Y / Z resolution parameters specify the number of grid nodes that will be included within the model domain.
Adaptive Gridding	Yes	Active	Adaptive Gridding refines the grid automatically to place grid nodes at all of the measured data points. The adaptive grid will result in a kriged parameter distribution that honors all of the measured data points exactly.

Written by: **Raphael Siebenmann** Date: **4/1/2016** Reviewed by: **Beau Hodge** Date: **4/1/2016**

Client: **Black & Veatch** Project: **Cape Fear Wood Preserving** Project/ Proposal No.: **GR5895** Phase No.: **06**

Parameter[1]	**Default (Yes/No)**[2]	**Value/Setting**	**Description/Explanation**[3]
Proportional Gridding	Yes	Active	Proportional gridding results in the number of nodes specified for the Z Resolution will be distributed (proportionately) over the geologic layers in a manner that is approximately proportional to the fractional thickness of each layer relative to the total thickness of the geologic domain.
Min Cells Per Layer / Units	Yes	2	Min Cells per layer - establishes a minimum number of cells (in the Z direction) per layer.
Min Layer Thickness	Yes	0.00001	Minimum layer thickness forces layers thinner than the specified value to have a minimum thickness and therefore not pinch out completely.
Krig 3D Chemistry Input		LIF Responses	The reduced data set was kriged per notes in assumptions above
Statistical Method	No	Min-Max Plume 90%	
Octant Search	No	Enabled	An Octant is any of the eight parts into which three mutually perpendicular planes divide space. Octant search - a maximum of N points (defined by user) in each of the eight octants surrounding the interpolation point are used in the calculations. This method results in better performance with clustered data. The Octant Search toggle changes the method by which data sample points are selected for inclusion in the kriging matrix. If this is on, the "Points" parameter switches to "Max Points in Octant". Searching is performed for each of the eight Octants surrounding the point to be kriged. Within each octant a maximum number of points (up to one-fourth of the total points) are selected. Then, points are taken sequentially from each octant up to the maximum number of total points or until all octant's points have been used.

Written by: **Raphael Siebenmann** Date: **4/1/2016** Reviewed by: **Beau Hodge** Date: **4/1/2016**

Client: **Black & Veatch** Project: **Cape Fear Wood Preserving** Project/ Proposal No.: **GR5895** Phase No.: **06**

Parameter[1]	**Default (Yes/No)**[2]	**Value/Setting**	**Description/Explanation**[3]
Anisotropy	Yes	10	The Horiz./Vert. Anisotropy Ratio parameter allows the model to consider the effects of anisotropy in the conductivity of soil matrices to fluid flow. In most cases, geologic materials are deposited with platy clay minerals oriented horizontally, and thus flow of water in both the saturated and unsaturated zone can be slower in the vertical direction than in the horizontal direction. Also, ore deposition can occur along horizontal or vertical fault or fracture systems. Chemical constituents being transported with flowing fluids may therefore show a larger degree of spreading in one or the other direction. The Horiz./Vert. Anisotropy Ratio allows the kriging algorithm to specify a multiplication factor to be used to apply biased weighting on data points in horizontal and vertical directions away from a given model node. The default value for fluid flow is 10, which allows data points in a horizontal direction away from a model node to influence the kriged value at that node 10 times more than data points an equal distance away in a vertical direction. When the property being modeled is not related to fluid flow or other processes that might be affected by matrix anisotropy, then the recommended value is 1, i.e. isotropic.
Chemistry Model Semivariogram Output Parameters			
Range	Yes	448 ft	Range - the approximate distance at which spatial autocorrelation between data point pairs ceases or the distance at which the difference between the semivariogram and the sill is negligible.
Sill	Yes	62 ft2	Sill - the semivariance value at which the variogram model levels out (plateau).
Nugget	Yes	0 ft	Nugget - the intercept of the semivariance model. EVS uses a nugget of zero, which forces the estimated value to be equal to the known value of data points that fall exactly on a grid point in the modeled domain, thus honoring actual data points.
Volumetric Parameters			
Soil Density	Yes	1.85 g/cc	Soil density of the soil matrix in which the chemicals resides.

Notes:

1. Input parameters for kriging C-Tech Corporation Earth Volumetric Studio Version 2016.1.0.
2. Indicates whether value used is the software default.
3. Parameter descriptions adapted from "C Tech Help System for EVS by C Tech Development Corp.

RESULTS

Modeling results are provided below. Table 1 shows the estimated volumes. Table 2 shows the maximum RE responses at each location in our model space.

Table 1: Estimated Volumes

90% Confidence Interval Kriging			
	Estimated Soil Volume (CY)		
Elevation	20% LIF RE	30% LIF RE	40% LIF RE
Whole Model	18,503	4,327	1,404
>230	811	70	14
225-230	2,661	683	240
220-225	4,454	617	158
215-220	6,909	2,179	733
210-215	2,689	554	215
<205	-	-	-

Table 2

Location	Maximum %RE	Depth of Maximum Response (ft)	Location	Maximum %RE	Depth of Maximum Response (ft)	Location	Maximum %RE	Depth of Maximum Response (ft)
L01	29.7	0.0	L35	77	21.1	L69	24	13.3
L02	32.5	28.8	L36	21	33.9	L70	23	5.5
L03	15.3	6.7	L37	49	0.2	L71	28	0.1
L04	63.2	12.3	L38	16	8.0	L72	202	26.6
L05	51.5	8.9	L39	17	13.3	L73	28	0.1
L06	14.7	24.0	L40	96	23.0	L74	59	9.4
L07	98.0	19.5	L41	13	16.8	L75	135	28.9
L08	20.3	3.8	L42	142	18.2	L76	61	17.0
L09	88.2	28.3	L43	23	2.0	L77	36	12.7
L10	22.0	8.8	L44	31	3.9	L78	26	23.9
L11	15.9	4.3	L45	28	8.3	L79	142	20.7
L12	25.9	3.7	L46	23	3.4	L80	61	29.0
L13	58.3	18.3	L47	117	18.8	L81	52	21.6
L14	19.1	26.2	L48	79	24.9	L82	37	0.0
L15	152.8	18.8	L49	16	25.2	L83	66	19.5
L16	162.2	19.6	L50	35	29.0	L84	21	30.8
L17	14.2	8.1	L51	19	12.2	L85	27	10.4
L18	104.1	18.5	L52	23	15.0	L86	148	19.4
L19	321.6	29.1	L53	91	22.0	L87	35	0.1
L20	35.1	28.7	L54	64	18.4	L88	17	0.0
L21	37.5	26.8	L55	141	19.3	L89	26	12.6
L22	15.9	26.9	L56	21	10.1	L90	130	0.0
L23	20.4	15.2	L57	98	21.8	L91	44	22.9
L24	87.2	25.8	L58	35	12.7	L92	21	8.1
L25	166.1	26.2	L59	21	14.2	L93	21	7.3
L26	457.7	22.6	L60	133	19.1	L94	40	4.7
L27	22.6	7.6	L61	72	22.6	L95	23	31.1
L28	19.2	28.2	L62	132	22.4	L96	18	30.9
L29	17.7	33.7	L63	168	19.7	L97	168	35.6
L30	103.5	23.8	L64	13	23.1	L98	89	21.2
L31	17.9	31.0	L65	21	0.1	L99	23	12.1
L32	75.6	3.1	L66	122	19.3	L100	83	23.1
L33	22.5	15.3	L67	23	31.7	L101	127	22.3
L34	111.4	26.3	L68	76	17.8	L102	145	11.3
						L103	239	28.343

In addition to the kriging, several statistical analyses were conducted. A statistical software (R) was used to assess the normality and correlations of LIF, SPLP and soil results with a pairwise scatter plot (Figure 13). Datasets include the synthetic precipitation leaching procedure (SPLP) results of 7 chemicals of interest (log-transformed) labelled with the prefix "l" and the first letters of the chemical name. Average, minimum, and maximum TarGOST responses for each depth associated with an SPLP sample are also included. The diagonal displays histograms, the upper corner scatter plots, and the lower corner a moving R^2 value. A moving R^2 does not restrain the line of best fit correlation to a straight line. High R^2 values of near 1 between the chemicals suggest a very strong correlation, when one chemical has a high concentration so do the others. It was therefore determined that naphthalene (which has high mobility and low environmental standards) could be used as representative chemical for the majority of the visualizations. The correlation between the chemicals and the TarGOST data was generally low and, when linear

correlation was tested, these correlations were substantially lower as can be predicted by the unsteady best fit lines in the scatter plots.

The correlation between raw soil results and leach results were also compared (see Figure 14 for an example). When data was log-transformed this correlation was very strong. In particular, there were two separate patterns. At low soil concentrations, there would be some leaching but it was fairly consistent up to approximately 2.5 logug/L (300 µg/L) at which point SPLP results rose consistently with soil results. This suggests a minimum soil concentration at which chemicals begin to leach consistently.

REFERENCES

Black & Veatch, 2010, NAPL Investigation Report, Cape Fear Wood Preserving Site, Revision 1, November 2010.

CTech, 2016. C Tech Development Corporation. Web. 11 March 2016. http://www.ctech.com

Appendix B

Memorandum: Black and Veatch Cape Fear Wood Preserving NAPL Evaluation

Geosyntec consultants

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Memorandum

Date: 1 April 2016

To: Beau Hodge

Copies to: Andrew Montgomery

From: Derek Tomlinson

Subject: Black and Veatch Cape Fear Wood Preserving
NAPL Evaluation

This technical memorandum is a summary of the Physical Properties analysis completed by PTS Laboratories, Inc. (PTS) in two letter reports dated 25 January 2016 and 29 January 2016. Per the PTS laboratory reports, the samples analyzed by PTS were collected from 9 to 12 December 2016 by Black and Veatch. The samples requested to be analyzed by PTS included following:

- Soil Samples collected on 9 and 10 December 2015:
  - Pore Fluid Saturation with Grain Size from sample locations (and depths):
    - 79L21 (20 to 21 feet), and
    - 86L19.8 (18.9 to 19.8 feet); and
  - Free Product Mobility Package from sample (and depth):
    - 72L27M from a depth of 26 to 27 feet.
- Soil Samples collected on 11 and 12 December 2015:
  - Pore Fluid Saturation with Grain Size from sample locations (and depths):
    - 97L21.5 (20.5 to 21.5 feet),
    - 97L27.5 (26.5 to 27.5 feet),

        - 97L28.5 (27.5 to 28.5 feet),
        - 97L35.5 (34.5 to 35.5 feet),
        - 82L7.9 (7.3 to 7.9 feet),
        - 101L18.5 (17.5 to 18.5 feet),
        - 101L29.5 (28.5 to 29.5 feet),
        - 101L34 (33.5 to 34 feet),
        - 57L22.5 (21.5 to 22.5 feet),
        - 83L22 (21 to 22 feet),
        - 83L38 (37 to 38 feet), and
        - 83L37.5 36.5 to 37.5 feet);
    - Free Product Mobility Package from sample location (and depth):
        - 97L29 (28 to 29 feet);
    - Grain Size Distribution from sample location (and depth)
        - 83L39g (38.5 to 39 feet); and
- Non-aqueous phase liquid (NAPL) samples collected on 12 December 2015:
    - DNAPL Viscosity from sample locations RW07 and RW08.

A discussion of the PTS analysis results are summarized as follows:

- Free Product Mobility: Initial and Residual Saturations,
- Pore Fluid Saturation,
- NAPL Viscosity, and
- Grain Size.

FREE PRODUCT MOBILITY: INITIAL AND RESIDUAL SATURATIONS

Free product mobility was completed using a centrifuge at 1,000 times the force of gravity. The goal of this analysis is to assess if an initial measured saturation of NAPL is altered due to a significant applied force. If there is a difference between pre- and post-centrifuge, the result implies that NAPL can be removed / recovered and the resultant post-centrifuge NAPL saturation value is typically assumed to be the NAPL residual saturation. For sample 72L27M, the initial measured NAPL pore fluid saturation was 9.2% and after centrifuge the NAPL pore fluid saturation was reduced to 7.9%. For sample 97L29, the initial measured NAPL pore fluid saturation was 25.0% and after centrifuge the NAPL pore fluid saturation was reduced to 7.0%. Thus, one may conclude that (1) NAPL above a saturation of approximately 7.0% to 7.9% is potentially mobile, and (2) the NAPL residual saturation is approximately 7.0% and 7.9% at these two locations, which may be used as an estimate of NAPL residual saturation for the Site.

PORE FLUID SATURATION

Pore Fluid Saturation (PFS) is analyzed via Dean Stark extraction using toluene distillation (API RP 40). The results of the PFS analysis indicate the percentage of the pore space (i.e., porosity) that is occupied with water and NAPL. PFS analysis was completed on a total of 14 samples and the results ranged from 1.1% to 11.1% for NAPL. Beyond the samples analyzed for free product mobility noted above, only two samples analyzed for PFS were measured above the assumed NAPL residual saturation range of 7.0% to 7.9% as follows:

- 97L35.5 with a NAPL saturation of 11.1%, and
- 101L34 with a NAPL saturation of 8.6%.

The remaining 12 samples analyzed for PFS were measured below the assumed NAPL residual saturation range of 7.0% to 7.9%. These measured NAPL saturation levels are likely in the NAPL residual saturation range and thus not mobile nor recoverable via typical hydraulic recovery methods.

The water saturations were generally indicative that the samples were from the saturated zone with at least 52.1% of the pore space water-filled and upwards of 80.5%.

The porosity of the samples were generally in the range of a typical fine to medium sand ranging in a porosity of 0.328 to 0.457, with the higher values likely with higher silt and/or clay content.

NAPL VISCOSITY

The NAPL samples collected from recovery wells RW-07 and RW-08 were analyzed for viscosity and density (specific gravity) at three temperatures. The three temperatures afford development of fitting curves to extrapolate the density and viscosity to a lower or higher temperature than analyzed for both in situ temperatures and if one were to alter temperature as part of a remedial action. The NAPL density is indicative of a dense NAPL (DNAPL) with densities at 70°F of 1.104 g/cm³ and 1.107 g/cm³ for RW-07 and RW-08, respectively. The measured viscosities are not that high for the two sampled recovery wells, and should not limit hydraulic recovery. The viscosities are generally in the range of a hydraulic oil with viscosities of 26.1 cP and 34.1 cP for RW-07 and RW-08, respectively.

GRAIN SIZE

Grain size analysis indicates that the soil is generally a well sorted fine to medium sand, with some samples with higher content of fine sand and others with more medium sand. Samples 82L7.9 and 83L37.5 were more poorly sorted compared to the rest of the samples and generally had more silt/clay than the other locations.

* * * * *

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