

Remedial Action Closure Report Lincoln Lace & Braid Remediation Project 55-61 Ponagansett Street Providence, Rhode Island

$Prepared \ for$

Providence Parks Department Dalrymple Boathouse – Roger Williams Park Providence, Rhode Island 02905

Prepared by

EA Engineering, Science, and Technology 2374 Post Road Warwick, Rhode Island 02886 (401) 736-3440

> September 2012 FINAL EA Project No.: 61891.05

CONTENTS

LIST OF FIGURES

			<u>F</u>	Page
1.	INTI	RODUC	TION	1
	1.2 1.3	Historica Previous	scription	2 2
2.	REM	IEDIAL	ACTIVITIES	5
	2.1	Enginee	red Cap	5
		2.1.2 G	losure Cap Subgradeeotextile Filter Layerrotective Cover Soil Layer/Vegetative Cover	7
	2.3	Sluicewa	n Buffer Restorationay/Wetland Restorationsland Pollutant Discharge Elimination System	8
3.	QUA	LITY C	CONTROL	10
4.	ENV	IRONM	MENTAL LAND USE RESTRICTION	11
AF	PENI	OIX A:	RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT REGULATORY APPROVALS	
AF	PENI	OIX B:	FINAL DESIGN PLAN SET	
		OIX C:	AS-BUILT PLAN SET	
		DIX D:	WEIGHT SLIPS OF IMPORTED SOILS	
		OIX E:	CERTIFICATES OF ANALYSIS OF IMPORTED SOILS	
		OIX F:	INSPECTION LOG FORMS	
		OIX G:	PHOTOGRAPH LOG	
Αĥ	PENI	OIX H:	ENVIRONMENTAL LAND USE RESTRICTION/SOIL MANAGEM PLAN	ENT.

LIST OF FIGURES

<u>Number</u>	<u>Title</u>
1	Locus Map
2	Capping Plan
3	Post Excavation Site Survey
Δ	As-Ruilt Site Plan

1. INTRODUCTION

On behalf of the City of Providence, EA Engineering, Science, and Technology, Inc. (EA) has prepared this Remedial Action Closure Report (RACR) to summarize the remedial activities conducted at the Lincoln Lace & Braid Remediation Project in Providence, Rhode Island (the Site). This Site is located to the north of Barbara Street and the south of RI Route 6. This RACR and all remedial activities discussed herein have been conducted in accordance with the Rhode Island Department of Environmental Management (RIDEM) *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (short title: *Remediation Regulations*), August 1996, as amended February 2004.

As detailed in the 2010 Revised Remedial Action Work Plan (Revised RAWP), remedial activities conducted at the Site consisted of the capping of the property to prevent direct exposure to soil and sediment contamination consisting of petroleum hydrocarbons, several volatile organic compounds, beryllium, arsenic, lead, and mercury. The remedial action, in conjunction with the implementation of an Environmental Land Usage Restriction (ELUR), has prepared the Site for future use.

The remedial effort at the site represents an important step in the further development of Providence's Woonasquatucket River Greenway and bike trail project. Completion of the Greenway project will help restore the Woonasquatucket River to its former grandeur and revitalize the neighborhoods of Olneyville, Hartford, and Manton. The project's main goals are to increase the recreational and green space available to local residents, promote river conservation and environmental action, stimulate economic development, and increase awareness of local history and river ecology.

1.1 SITE DESCRIPTION

The former Lincoln Lace & Braid complex is located at 55-61 Ponagansett Street in Providence, Rhode Island. The Site is located on approximately 6.0 acres of land adjacent to the Woonasquatucket River in the Hartford section of Providence, designated on the City of Providence Tax Assessor's Map as Plat 113, Lots 305 and 429. Figure 1 provides a Site Location Map.

The lot slopes from south to north, towards the Woonasquatucket River. Access from Ponagansett Avenue is provided via a steep asphalt driveway that begins at the east end of the Ponagansett Avenue, traverses the embankment, and then swings sharply to the east across the now-filled headrace to reach the former building locations.

A stepped, coursed, split masonry and concrete wall lines the east wall of the tailrace immediately south of the location of the former Wheel House. The remainder of the tailrace has earthen embankments that suggest its original appearance as a flood channel. No traces of other mill buildings remain.

The Woonasquatucket River's western bank defines the eastern edge of the mill site. The remains of the 1918 dam in its channel near the north end of the lot are still evident. Concrete and rubblestone masonry dam abutments are located on both riverbanks and retain cast imprints and wood fragments of the spillway's timber cribbing. Remains of both a late nineteenth-century and an early twentieth-century railroad bridge are located in the river channel approximately 240 ft downstream of the dam remains.

The former Ponagansett Avenue Landfill abuts the west end of the Site and is accessed by the same driveway as the subject site.

1.2 HISTORICAL CONTEXT

The Lincoln Lace & Braid site was established in 1812 as Merino Mill. By 1870, there were mill villages on the Johnston and North Providence sides of the river at Olneyville, Dyerville, Manton Village, Lyman's Mill, Allendale, Centerdale, and Graniteville. Within Providence, mills included Union Cotton, Delaine, Lyman Manufacturing, and the Valley Bleachery. Nearly every foot of the river's drop was being used to turn a factory waterwheel. The local manufacturers formed a company to build reservoirs upstream to store water for use during the dry months, such as the reservoir formerly located on the abutting site, the Ponagansett Avenue Landfill to keep the mill wheels turning throughout the year. This was the first such water management system of its kind and was replicated on industrial rivers throughout the world (Beers 1870; Greenwood n.d.; RIHPHC 1976b, 1981, 1986).

In 1994, the main building of the mill complex was destroyed by fire. Subsequent remediation efforts removed the building debris as well as petroleum and petroleum-contaminated soil from the Site. Only portions of the ruins of the former Merino Mill and its associated waterpower infrastructure remained on Site.

1.3 PREVIOUS INVESTIGATIONS/ REMEDIAL ACTIONS

The Site has been the subject of several investigations and cleanup actions. The following information sources were reviewed:

- Short-Term Response Report, Lincoln Lace & Braid Complex (Cyn Environmental, February 1999)
- Remedial Evaluation Report, Lincoln Lace & Braid, Providence, Rhode Island (Rhode Island Department of Environmental Management Office of Waste Management, December 1999)
- Pre-Design Investigation Report, dated August 2000, prepared by RIDEM's Office of Waste Management

Page 3 of 11 September 2012

- Remedial Action Work Plan Former Lincoln, Lace and Braid Site, Providence, Rhode Island (MACTEC, Inc., November 2002 [Revised September 2003])
- Remedial Action Work Plan for Ponagansett Avenue Remediation, 67 Melissa Street, Providence, Rhode Island (EA Engineering, Science, and Technology, Inc. (July 2005)
- Technical Memorandum, Lincoln, Lace, and Braid Property, Providence, Rhode Island Cultural Resources Reconnaissance (Public Archeological Laboratory, 16 April 2007)
- Correspondence entitled *Remedial Alternatives Analysis*, received by RIDEM on 11 May 2009, prepared and submitted by EA Engineering, Science, and Technology, Inc. (EA);
- Correspondence entitled *Revised Remedial Alternatives Analysis*, received by RIDEM on 8 July 2009, prepared and submitted by EA
- Historical Site Characterization Site Plan, received by RIDEM on 23 July 2009, prepared and submitted by EA
- Lincoln Lace and Braid Supplemental Sampling and Analysis Plan, received by RIDEM on 30 July 2009, prepared and submitted by EA
- Sampling and Analysis Plan and Site-Specific Quality Assurance Project Plan for Supplemental Sediment and Surface Water Sampling, received by RIDEM on 21 August 2009, prepared and submitted by EA
- Sluiceway Sampling and Analysis Plan, received by RIDEM on 25 August 2009, prepared and submitted by EA
- Supplemental Sampling Analytical Results, received by RIDEM on 1 December 2009, prepared and submitted by EA
- Revised Remedial Alternative No. 3, received by RIDEM on 1December 2009, prepared and submitted by EA
- Correspondence entitled *Lincoln Lace and Braid Response to Comments*, received by RIDEM on 1 February 2010, prepared and submitted electronically by EA.
- Depositional Sediment Dioxin Investigation, received by RIDEM on 19 May 2010, prepared and submitted electronically by EA.

Previous investigations included test pit soil and groundwater sampling (Cyn Environmental, October 1996) and further removal actions conducted in November 1998. The 1996 removal action and test pit soil and groundwater sampling included the excavation and disposal of soil and petroleum from an underground storage tank (UST). Soil and groundwater samples were collected from a total of 21 test pits resulting in the subsequent (1998) removal of contaminated soil in areas identified during the 1996 investigation.

In May 1996, a RIDEM contractor collected six sediment samples within the sluiceway to determine if sediments were impacted. Analytical results indicate the sediments are impacted with lead and arsenic and concentrations exceeding the RIDEM Residential and/or Industrial Commercial Direct Exposure Criteria for soil (no sediment standards are currently promulgated by RIDEM).

In August 2000, Fuss & O'Neill completed a limited design investigation (LDI) that concluded that anoxic conditions occur in the groundwater at the Site. The LDI stated that this condition causes iron to discharge into groundwater. When groundwater is exposed to oxygen (*i.e.*, discharged into the tailrace), the iron precipitates out of solution and deposits on the bed of the former tailrace.

In October 2009, EA collected 8 sediment samples from the sluiceway to determine if previous remediation attempts were successful in the lower reaches of the sluiceway. Analytical results indicate sediments on the downstream reaches of the sluiceway are not impacted with arsenic and lead at concentrations exceeding the RIDEM Residential Direct Exposure Criteria.

In response to a public request for investigation of potential impacts of depositional sediments resultant from March 2010 flooding, EA collected three composite samples from three locations at the Site. The analytical results indicate that 2,3,7,8-TCDD is present in depositional sediment and/or native soils at the Site. Concentrations range from 43 nanograms per kilogram (ng/kg (parts per trillion)) to 120 ng/kg. The cleanup standard established for the Centerville Manor Site in North Providence is equal to 1,000 ng/kg in sediment. RIDEM has established a 4.3 ng/kg residential direct exposure standard for other projects currently ongoing in the Providence area. EPA currently recommends a 50 ng/kg Screening Level and a 1,000 ng/kg Action Level for residential sites.

1.4 CONTAMINANTS OF CONCERN

The primary contaminants of concern at the Site are the presence of elevated metal and polycyclic aromatic hydrocarbon (PAH) concentrations previously observed in soil and sediment samples throughout the Site above the RIDEM RDEC. Exceedances of the RDEC for arsenic, beryllium, lead, mercury, ethyl benzene, trichloroethene, tetrachloroethene, xylene, and total petroleum hydrocarbons (TPH) were found in some soil samples.

2. REMEDIAL ACTIVITIES

This section summarizes the remedial activities for each of the media of concern at the Site conducted from October 2010 through May 2011. Remedial technologies were utilized to address the following issues:

Media	Contaminant	Risk/Issue	Remedial Technology
	Debris and Litter	None/Aesthetics	Removal/Offsite Disposal
Soil	PAHs, TPH,	Direct Exposure	Engineered Soil
3011	Metals, VOCs		Barrier/Environmental Land
			Usage Restriction
Sediment	Iron oxide/Metals	Direct Exposure/	Engineered Barrier/Wetland
		Aesthetics	Plantings, ELUR
Surface Water	Iron oxide	None/Aesthetics	Installation of Check
(Tailrace)	Holl oxide		Dams/Wetland Plantings
Groundwater	None	None	None

Additional detail regarding the remedial technologies is provided in the following sections. The regulatory approvals received from RIDEM are provided in Appendix A.

2.1 ENGINEERED CAP

There are seven types of engineered cap that were constructed at the Site due to the presence of the 100-year floodplain and proposed bike path on the property. However, one of these engineered caps is relative to the impacted sediments within the sluiceway. These are identified as Cover Systems 1 through 7 on Sheet 3 the attached Final Design Plan Set (Appendix B).

Cover System 1 refers to an engineered cap consisting of 1 ft of certified clean soil underlain with a geotextile. This cover system is located mainly within the 100-year floodplain. As this cover system is located within the 100-year floodplain, the area was cut 16 in. prior to installation of the geotextile and 1-ft soil cap to maintain flood storage across the Site. The additional 4 in. of excavation is to compensate for filling within the floodplain in other areas (cover systems 3 and 5).

Cover System 1 was installed in all areas within the 100-year floodplain that did not have mature, established trees. This cover system was also implemented in all areas of new plantings. The plantings were installed after construction of the engineered cap, over the geotextile filter fabric. The delineation of this cover system is shown on Figure 2.

Cover System 2 refers to an engineered cap also consisting of one ft of certified clean soil underlain with a geotextile. However, this cover system was constructed in western upland portions of the Site outside of the 100-year floodplain. In this area, there are no restrictions on the final elevation of the cap. Therefore, the material excavated from the areas within the 100-

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year floodplain were installed in this area prior to construction of the engineered cap. Refer to Figure 2 for the delineation of this cover system.

Cover system 3 also refers to an engineered cap consisting of 1 ft of certified clean soil underlain with a geotextile. This cover system is located outside of the 100-year floodplain and therefore was not excavated prior to installation of the engineered cap. Filling was not conducted in this area prior to installation of the engineered cap.

Cover system 4 refers to an engineered cap consisting of 1 ft of certified clean soil underlain with a geotextile. However, this cap was installed in the areas of the future bike path. This area was filled with 1 ft of gravel in accordance with RIDOT specifications to proposed grade to provide RIDOT with a base for the proposed bike path and avoid significant disturbance to the engineered cap. This area has been treated with erosion control binding materials that will remain until construction of the bike path.

Cover system 5 refers to an engineered cap consisting of a geogrid, geotextile, and 6 in of 1.5 inch minus crushed stone. This cap was installed in all areas of the sluiceway demonstrated as contaminated during the EA investigation conducted in October 2009. The geogrid was installed to provide stability to the cap, as geotechnical data within the sluiceway was not available. The geotextile and crushed stone was installed to isolate contaminated sediments from downstream migration and prevent direct exposure.

Cover system 6 refers to an engineered cap consisting of 6 inches underlain with a construction fencing barrier layer. This cap was installed in river bank area within the existing vegetation. The vegetation shall remain to help stabilize this area, while preventing direct exposure.

Cover system 7 refers to an engineered cap consisting of 6 in of 1.5 in minus crushed stone underlain with a construction fencing barrier layer. This cap was installed around trees with a diameter of 12 in or greater unless showing visual signs of disease and/or infestation. The cap encompasses a 30' diameter around each tree or under its canopy, whichever is smaller. This will preserve the trees while preventing direct exposure to impacted soils.

2.1.1 Closure Cap Subgrade

A closure cap subgrade was prepared from the suitable existing site grade to create adequate stormwater drainage for the Site and serve as a suitable base for the components of the closure cap system following clearing/grubbing and off-site disposal of existing debris. The existing concrete and asphalt surfaces were broken in place, crushed to specified size, and placed in the areas of Cover System 2 prior to installation of the engineered cap. A site survey of the closure cap subgrade is provided in Appendix C, As-Built Plan Set.

2.1.2 Geotextile Filter Layer

A geotextile filter layer was placed above the closure cap subgrade and below a protective soil cover to prevent human exposure to impacted soil at the Site while allowing precipitation to infiltrate through the cover systems and into the groundwater table. The fabric filter was installed so that the seams overlap to prevent the underlying impacted soil from mixing with the clean soil cap.

2.1.3 Protective Cover Soil Layer/Vegetative Cover

The protective cover soil layer of the closure cap system, also commonly termed the vegetative support soil layer, consists of a minimum of 4 in to 6 in. of certified clean fill material. The vegetative support soil layer is designed to provide for root growth while buffering the underlying layers from damage due to the effects of frost penetration, root penetration, and loading of the finished surface of the closure cap. The upper 4 in. of this soil layer is a topsoil/loam having characteristics to promote adequate vegetation, stability, and erosion resistance. A Site as-build is provided as Figure 4 and shows all final grades.

All fill material was sampled and certified clean prior to transport to and placement on the Site. Material was sampled at a frequency of at least one sample analyzed per 500 yards for arsenic by U.S. Environmental Protection Agency (EPA) Method 6010B/Graphite Furnace. One-quarter of the total compliance samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8100, priority pollutant 13 metals by EPA Method 6010B/7741, semi-volatile organic compounds (SVOCs) by EPA Method 8270, and VOCs by EPA Method 8260B/5035. Fill material was deemed to be suitable for use as cap material upon receipt of analytical results indicating all tested analytes were below the I/CDEC.

Four different types of material were imported onto the Site for remedial activities, including 5,040 cubic yards (yd³) of certified clean gravel and 2,193 yd³ of certified clean loam. Weight slips for the imported materials are provided as Appendix D. Analytical Reports for all imported soil are included as Appendix E.

2.2 RIPARIAN BUFFER RESTORATION

A buffer between the Woonasquatucket River and the future bike path was created to increase the ecologic value of the Site. This riparian restoration opportunity involved installation of a geotextile, 6 in of clean soil, and the planting of native shrubs to enhance microhabitat diversity and functionality of the floodplain.

This restoration area is located adjacent to the Woonasquatucket River and will enhance and encourage the wildlife habitat that currently frequents the surrounding area. This area is defined as the area between the Woonasquatucket River and the proposed bike path and is referred to as Upland Buffer Type 2.

2.3 SLUICEWAY/WETLAND RESTORATION

The southern extent of the former mill sluiceway defines the southeastern boundary of the project Site. The remediation strategy for this portion of the Site included the installation of an engineered barrier, construction of several check dams within the sluiceway, and the establishment of a mixed scrub-shrub/wet meadow wetland.

The plantings refer specifically to three planting zones, delineated on Sheet 7 of Appendix B, Planting Plan. The most upland zone, Upland Buffer Type 1, consists of shrubs with thorns to discourage access to the sluiceway. The riparian planting zone is located between the upland planting zone and the sluiceway and includes plantings that thrive in transition zones and provide ecological value to the area. Finally, cattails were planted along the sluiceway to stabilize the bank and obstruct sight lines to the sluiceway.

A previous remediation attempt within the sluiceway included excavation of sediments within the downstream reaches of the sluiceway. Sampling and analysis of sediments conducted by EA in 2009 confirmed the effectiveness of the remediation by demonstrating that sediments were not contaminated in the downstream area. Therefore, an engineered barrier was not required in this area.

The engineered barrier in the sluiceway (cover system 5) refers to an engineered cap consisting of a geogrid, geotextile, and 6 in of crushed stone. This cap was installed within the impacted areas of the sluiceway. The geogrid was installed to provide stability to the cap. The geotextile and crushed stone was installed to isolate contaminated sediments from downstream migration and prevent direct exposure to impacted sediment.

Five check dams were installed within the sluiceway for two purposes. The first purpose is to act as a barrier, creating backwater areas for the iron flocculation to settle out and minimize downstream migration. The second purpose of the check dams is to aerate the water. The physical action of the water flowing over the check dams will entrain oxygen in the water column. The oxygen increase causes the ferrous iron (Fe⁺²) in dissolved phase to oxidize into ferric iron (Fe⁺³) and precipitate into the rust colored iron flocculent currently present in the sluiceway. The downstream check dam will then capture the iron, minimizing further downstream migration into the Woonasquatucket River.

2.4 RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

A Remediation General Permit was obtained from the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program (RIPDES Permit No. RIG85G008) to discharge treated effluent associated with dewatering the sluiceway during grading and check dam installation. A Notice of Termination dated 30 March 2011 was received from RIDEM indicating the permit has been formally closed. No exceedances or violations of the discharge permit were observed during the dewatering activities.

Project No.: 61891.05 Revision: FINAL Page 9 of 11 September 2012

EA Engineering, Science, and Technology, Inc.

A Stormwater Pollution Prevention Plan (SWPPP) was prepared to protect the environmental surroundings at the Site during remediation and construction and to identify, minimize, and control the potential for release of pollutants into the adjacent Woonasquatucket River. The erosion and sedimentation controls outlined in the SWPPP were implemented prior to all construction activities at the Site. The erosion controls will be removed following a fall 2011 inspection of the Site ensuring adequate vegetation (i.e. grass) across the Site.

September 2012

3. QUALITY CONTROL

EA conducted a site visit prior to the start of construction activities to ensure that erosion controls were properly installed. Periodic inspections were conducted by EA to document that the materials used in constructing the cap conformed to the approved design specifications and to ensure that the required thickness of the engineered cap was achieved and that the geotextile was appropriately installed during construction activities,. Inspection logs completed during Site construction activities are provided in Appendix F. Photos documenting the inspections conducted by EA are provided in Appendix G.

September 2012

EA Engineering, Science, and Technology, Inc.

4. ENVIRONMENTAL LAND USE RESTRICTION

An ELUR documenting the required maintenance and annual inspection of the remedy will be recorded in the land evidence records of the City of Providence, along with a Soil Management Plan (SMP) to be followed during future activities that may disrupt the cap, such as utility maintenance. The ELUR/SMP, included as Appendix H, will recorded with the City of Providence Land Evidence Records following completion of the proposed bike path.

Appendix A RIDEM Regulatory Approvals

PROGRAM LETTER

Mr. Robert F. McMahon, Superintendent Providence Parks Department Dalrymple Boathouse Roger Williams Park Providence, RI 02905

RE:

Lincoln Lace and Braid Mill Site 55-61 Ponagansett Street Plat 113 / Lots 305 and 429 Providence, Rhode Island RIDEM Case No. 2009-018 February 2, 2010



Dear Mr. McMahon:

On February 24, 2004, the Rhode Island Department of Environmental Management (the Department) amended the <u>Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases</u>, (the <u>Remediation Regulations</u>). The purpose of these Regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in an efficient manner. The purpose of a *Program Letter* is to indicate that the Department deems the investigation of the reported release complete and to notify the Responsible Party that they must perform Public Notice in accordance with Sections 7.07 and 7.09 of the Remediation Regulations.

The Department has reviewed the following documents relative to the above referenced property:

- 1. Correspondence entitled <u>Lab Project # C1203, Client Project # NA</u>, received by the Department on November 21, 1996, prepared and submitted by Mitkem Corporation (Mitkem);
- 2. Correspondence entitled <u>Gas Chromatography-Mass Spectrometry Analysis of Extractable Organics in Soils and Sediments Lace Textile</u>, received by the Department on December 4, 1996, prepared and submitted by the United States Environmental Protection Agency (USEPA);

REMEDIAL APPROVAL LETTER RIDEM CASE No. 2009-018

October 7, 2010

Mr. Robert F. McMahon, Superintendent Providence Parks Department Dalrymple Boathouse Roger Williams Park Providence, RI 02905

RE: Lincoln Lace & Braid - Mill Site

55-61 Ponagansett Street Plat 113 / Lots 305 and 429 Providence, Rhode Island

Dear Mr. McMahon:

On February 24, 2004, the Rhode Island Department of Environmental Management's (the Department) Office of Waste Management (OWM) amended the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in a timely and cost-effective manner. A Remedial Approval Letter is a document used by the Department to approve remedial actions at contaminated sites that do not involve the use of complex engineered systems or techniques (i.e., groundwater pump and treat systems, soil vapor extraction systems, etc...).

In the matter of the above referenced Site, the Department has on file the following documents submitted:

- Correspondence entitled <u>Lab Project # C1203, Client Project # NA</u>, received by the Department on November 21, 1996, prepared and submitted by Mitkem Corporation (Mitkem);
- Correspondence entitled <u>Gas Chromatography Mass Spectrometry Analysis of Extractable Organics in Soils and Sediments Lace Textile</u>, received by the Department on December 4, 1996, prepared and submitted by the United States Environmental Protection Agency (USEPA);
- Results of Subsurface Site Investigation, received by the Department on December 23, 1996, prepared and submitted by Fuss & O'Neill, Inc. (F&O);
- Correspondence entitled <u>Client Project #: Lincoln Lace, Lab Project #: E0020</u>, received by the Department on January 27, 1998, prepared and submitted by Mitkem;

Remedial Approval Letter Lincoln Lace and Braid – Mill Site, 55-61 Ponagansett Street, Providence Page 1/7 October 7, 2010



- Correspondence entitled <u>Work Plan</u>, received by the Department on October 27, 1998, prepared and submitted by Cyn Environmental Services (Cyn);
- Short-Term Response Report (Response Report), dated February 10, 1999, prepared and submitted by Cyn;
- Laboratory Analytical Data Reports, dated May 27, 1999, prepared and submitted by ESS Laboratory;
- Laboratory Analytical Data Reports, dated June 2, 1999, prepared and submitted by ESS Laboratory;
- Laboratory Analytical Data Reports, dated July 17, 1999, prepared and submitted by ESS Laboratory;
- Correspondence entitled <u>Former Landfill / Dump Location and Extent</u>, received by the Department on October 2, 1999, prepared and submitted by F&O;
- Remedial Evaluation Report, dated December 1999, prepared by the Department's Office of Waste Management;
- Correspondence entitled <u>Testing Documentation</u>, dated December 1999, prepared and submitted by the Trust for Public Land;
- Laboratory Analytical Data Reports, received by the Department on February 24, 2000, submitted by F&O;
- <u>Pre-Design Investigation Report</u>, dated August 2000, prepared by the Department's Office of Waste Management;
- Correspondence entitled <u>Proposal for Limited Subsurface Investigation</u>, received by the Department on January 11, 2002, prepared and submitted by F&O;
- Correspondence entitled **Proposal for Remedial Assessment**, received by the Department on January 8, 2003, prepared and submitted by F&O;
- <u>Remedial Evaluation Report Addendum</u>, received by the Department on February 11, 2003, prepared and submitted by F&O;
- Remedial Evaluation Report Addendum, received by the Department on March 17, 2003, prepared and submitted by F&O;
- <u>Remedial Evaluation Report Addendum</u>, dated April 2003, prepared by the Department's Office
 of Waste Management;
- Public Notice Letters, notifying abutters of investigation work, received by the Department on

- October 10, 2003, prepared and submitted by the Department of Planning and Development for the City of Providence;
- Correspondence entitled <u>Site Security Former Lincoln Lace and Braid Property, Providence</u>, received by the Department on August 10, 2004, prepared and submitted by the Department of Public Parks for the City of Providence;
- Correspondence entitled <u>Remedial Alternatives Analysis</u>, received by the Department on May 11, 2009, prepared and submitted by EA Engineering, Science, and Technology, Inc. (EA);
- Correspondence entitled <u>Revised Remedial Alternatives Analysis</u>, received by the Department on July 8, 2009, prepared and submitted by EA;
- <u>\$1,000.00 Remedial Action Approval Application Fee</u>, received by the Department on July 14, 2009;
- <u>Historical Site Characterization Site Plan</u>, received by the Department on July 23, 2009, prepared and submitted by EA;
- <u>Lincoln Lace and Braid Supplemental Sampling and Analysis Plan</u>, received by the Department on July 30, 2009, prepared and submitted by EA;
- Sampling and Analysis Plan and Site-Specific Quality Assurance Project Plan for Supplemental Sediment and Surface Water Sampling, received by the Department on August 21, 2009, prepared and submitted by EA;
- <u>Sluiceway Sampling and Analysis Plan</u>, received by the Department on August 25, 2009, prepared and submitted by EA;
- <u>Supplemental Sampling Analytical Results</u>, received by the Department on December 1, 2009, prepared and submitted by EA;
- Revised Remedial Alternative No. 3, received by the Department on December 1, 2009, prepared and submitted by EA;
- Correspondence entitled <u>Lincoln Lace and Braid Response to Comments</u>, received by the Department on February 1, 2010, prepared and submitted electronically by EA;
- Correspondence entitled <u>Lincoln Lace and Braid Public Involvement</u>, received by the Department on February 11, 2010, prepared and submitted electronically by EA;
- Correspondence entitled <u>Lincoln Lace and Braid Floodplain Revision</u>, received by the Department on March 23, 2010, prepared and submitted electronically by EA;
- Correspondence entitled <u>Comments on Lincoln Lace & Braid clean up</u>, received by the Department on April 16, 2010, prepared and submitted electronically by Rhode Island Legal Services, Inc.;

- Correspondence entitled <u>Lincoln Lace and Braid Public Involvement Letter</u>, received by the Department on April 23, 2010, prepared and submitted electronically by EA;
- Correspondence entitled <u>Lincoln Lace and Braid Dioxin Sampling Summary</u>, received by the Department on May 20, 2010, prepared and submitted electronically by EA;
- Correspondence entitled <u>Lincoln Lace and Braid Public Comments</u>, received by the Department on May 24, 2010, prepared and submitted by electronically by EA;
- Correspondence entitled <u>RE: Lincoln Lace and Braid Public Comments</u>, received by the Department on June 4, 2010, prepared and submitted electronically by EA;
- <u>RIPDES Remediation General Permit Application</u>, received by the Department on June 9, 2010, prepared and submitted by EA;
- Stormwater Pollution Prevention Plan, received by the Department on June 9, 2010, prepared and submitted by EA;
- Remedial Action Work Plan, received by the Department on June 9, 2010, prepared and submitted by EA;
- Correspondence entitled **RE:** Lincoln Lace and Braid Public Comments, received by the Department on June 11, 2010, prepared and submitted electronically by EA; and
- Remedial Action Work Plan (RAWP) Lincoln Lace & Braid Mill Site with responses to
 Department comments, received by the Department on September 10, 2010, prepared and submitted by EA.

The preferred remedial alternative involves restricting the future use of the property by capping the entire property with a Department approved cap to act as engineered controls for eliminating direct exposure to the public. This cap will consist of seven separate capping scenarios:

- Cover System 1 One (1) foot of clean fill over a geotextile liner following the removal of sixteen (16) inches of soil for floodplain compensation.
- Cover System 2 One (1) foot of clean fill over a geotextile liner following the placement of the soils removed from cover system 1 for floodplain compensation.
- Cover System 3 One (1) foot of clean fill over a geotextile liner.
- Cover System 4 One (1) foot of gravel over a geotextile liner in the area of the future bike path followed by placement of erosion control matting.
- Cover System 5 Six (6) inches of one and a half (1.5) inch minus crushed stone overlain a geotextile liner and a geogrid in the contaminated area of the sluiceway.
- Cover System 6 Six (6) inches of clean fill over construction fencing to ensure slope stability and to allow the existing trees to thrive.
- Cover System 7 Six (6) inches of one and a half (1.5) inch minus crushed stone overlain
 construction fencing installed around trees to be preserved to allow the existing trees to
 thrive. This capping will extend out in a thirty (30) foot diameter from the tree or the area

under the tree canopy, whichever is smaller.

In addition, the proposed remedy also calls for the maintenance and monitoring of the engineered controls through the recording of an institutional control in the form of a Department approved Environmental Land Usage Restriction (ELUR) and Soil Management Plan (SMP). The ELUR will require maintenance of all engineered controls and will act to further limit direct exposure to contaminated areas. As part of the ELUR, it is the responsibility of the property owners to provide for annual inspections of the property by a qualified environmental professional, and to submit a report, subject to review by the Department, which shall certify that the property is in compliance with the terms of the ELUR.

Based upon review and consideration of the above referenced documents, the Department approves the RAWP through this **Remedial Approval Letter (RAL)** provided that:

- 1. All work must be performed in accordance with all applicable regulations and the Department approved RAWP.
- 2. All excess excavated regulated soil, if any, shall be capped onsite in accordance with Cover System 2 or disposed of off-site at an appropriately licensed disposal facility in accordance with all local, State, and Federal laws. Copies of the material shipping records and / or manifests associated with the disposal of the material shall be included along with a Closure Report and also maintained by the site owner and included in the annual inspection report for the site.
- 3. Areas of the property where contaminated soils are to be excavated must be staged and temporarily stored in a designated area of the property with proper polyethylene covers, which shall be used under the stockpile and also covering the stockpile. Within reason, the storage location will be selected to limit the unauthorized access to the materials (i.e., away from public roadways/walkways). No regulated soil will be stockpiled on-site for greater than 60 days. In the event that stockpiled soils pose a risk or threat of leaching hazardous materials, a proper leak-proof container (i.e. drum or lined roll-off) or secondary containment will be required and utilized.
- 4. The Department no longer requires the submittal of analytical data prior to clean fill being brought to a Site. It is the sole responsibility of the Performing Party and their consultant to analyze the material, certify that the material meets the Department's Residential Direct Exposure Criteria (RDEC), as defined by the Remediation Regulations, for all constituents, and is suitable for use on the Site. The Department strongly suggests that enough representative samples of the clean fill are collected prior to moving the material to the Site to satisfy the Performing Party and their consultant that the material meets the RDEC. Please note that the Department reserves its rights to sample the clean fill, if suspect, to confirm compliance with the RDEC.
- 5. All regulated soil remaining on-site shall be encapsulated by an engineered control consistent with those described in the Department approved RAWP and this RAL.
- 6. Dust suppression techniques (i.e. watering, etc.) must be employed at all times during all soil disturbing/handling activities at the Site in order to minimize the generation of fugitive dust and any stockpiled materials, including clean fill, must be underlain and covered with polyethylene sheeting and be secured at the end of each day with all appropriate erosion and sediment controls to limit the

loss of the cover and protect against storm-water and / or wind erosion (i.e. hay bales, rocks, etc). These appropriate sedimentation and erosion controls must be in place and in proper working order at all times until all disturbed and capped areas are stabilized and re-vegetated as proposed. Extra measures (i.e. dust screens, etc...) shall be taken at the property boundaries for all residential abutting properties to minimize the amount of exposed soil and airborne dust that may be migrating offsite.

- 7. All work on the subject property must take place in accordance with the aforementioned site plans received on September 10, 2010, entitled "Lincoln Lace and Braid Remediation Project, Providence, Rhode Island, Prepared For The City Of Providence Parks Departments," sheets one through seven of seven, bearing a revision date of August 25, 2010.
- 8. Establishment of new vegetation on the subject property must be in strict accordance with sheet seven of seven of the above referenced site plans.
- 9. In accordance with the aforementioned site plans accompanying the RAWP, all trees with a diameter of twelve (12) inches or greater that exist on the subject property within the two-hundred (200) foot riverbank wetland of the Woonasquatucket River must be preserved during and after the capping procedure. This also includes all trees on the subject property in the riverbank wetland that are not depicted on the aforementioned site plans. Prior to the proposed remediation activities, diligent measures must be taken to protect all trees greater than or equal to twelve (12) inches diameter by installation of tree armor where appropriate.
- 10. Within sixty (60) days of completion of the work described in the Department approved RAWP, a Closure Report detailing the Remedial Action and the results of any applicable sampling shall be submitted to the OWM.
- 11. Within sixty (60) days of completion of the work described in the Department approved RAWP revisions, the final Department approved ELUR shall be recorded in the City of Providence Land Evidence Records (pending approval by the Department) for the property and a stamped, certified copy returned to the Department within fifteen (15) days of recording. Upon the receipt of a copy of the recorded (stamped) ELUR, the Department will issue an Interim Letter of Compliance. Upon completion of the final bike path construction, along with the construction of the post and beam fencing and the planting of "deterrent, thorny" species, the Department will issue a Letter of Compliance.
- 12. Following recording of the ELUR, the site shall be maintained and annually inspected to evaluate the compliance status of the site with the ELUR. Within thirty (30) days of each annual inspection, an evaluation report shall be prepared and submitted to the Department detailing the findings of the inspection and noting any compliance violations at the site.
- 13. Any changes in the activities detailed in the RAWP revisions shall be reported to the Department by telephone within one (1) working day and in writing within five (5) working days.
- 14. The OWM shall be notified 48 hours prior to initiating the remedial activities at the site associated with the Department approved RAWP revisions.

15. The OWM shall be immediately notified of any site or operation condition that results in non-compliance with this RAL.

Please note that at this time the Department does not approve the ELUR for recording in the Land Evidence Records with the City of Providence. The draft ELUR and SMP shall be reviewed and approved by the Department under separate cover, followed by recording at the completion of all remedial work.

This **Remedial Approval Letter** does not remove your obligation to obtain any necessary permits from other local, State, and/or Federal agencies, including but not limited to the Army Corp. of Engineers.

Please contact me by telephone at 401-222-2797, extension 7147, or by E-mail me at tim.fleury@dem.ri.gov if you have any questions.

Sincerely,

Timothy M. Fleury

Senior Engineer

Office of Waste Management

Authorized by,

Kelly J. Owens

Kelly J Owens

Assoc. Supervising Engineer Office of Waste Management

Cc: Jeffrey P. Crawford, Office of Waste Management

Elizabeth Stone, Office of the Director

Ronald Gagnon, Office of Customer and Technical Assistance

Martin Wencek, Office of Water Resources - Wetlands

Aaron Mello, Office of Water Resources - RIPDES

Alan Peterson, U.S. Environmental Protection Agency

Steven Fischbach, R.I. Legal Services, Inc.

Gilberta Taylor, Hartford Park Residents Association

Lisa Aurecchia, Woonasquatucket River Watershed Council

Frank Postma, EA Engineering, Science, and Technology, Inc.

Ronald Mack, EA Engineering, Science, and Technology, Inc.

- 3. Results of Subsurface Site Investigation, received by the Department on December 23, 1996, prepared and submitted by Fuss & O'Neill, Inc. (F&O);
- 4. Correspondence entitled <u>Client Project #: Lincoln Lace, Lab Project #: E0020</u>, received by the Department on January 27, 1998, prepared and submitted by Mitkem;
- 5. Correspondence entitled <u>Work Plan</u>, received by the Department on October 27, 1998, prepared and submitted by Cyn Environmental Services (Cyn);
- 6. Short-Term Response Report (Response Report), dated February 10, 1999, prepared and submitted by Cyn;
- 7. Laboratory Analytical Data Reports, dated May 27, 1999, prepared and submitted by ESS Laboratory;
- 8. Laboratory Analytical Data Reports, dated June 2, 1999, prepared and submitted by ESS Laboratory;
- 9. Laboratory Analytical Data Reports, dated July 17, 1999, prepared and submitted by ESS Laboratory;
- 10. Correspondence entitled <u>Former Landfill</u> / <u>Dump Location and Extent</u>, received by the Department on October 2, 1999, prepared and submitted by F&O;
- 11. Remedial Evaluation Report, dated December 1999, prepared by the Department's Office of Waste Management;
- 12. Correspondence entitled <u>Testing Documentation</u>, dated December 1999, prepared and submitted by the Trust for Public Land;
- 13. Laboratory Analytical Data Reports, received by the Department on February 24, 2000, submitted by F&O;
- 14. <u>Pre-Design Investigation Report</u>, dated August 2000, prepared by the Department's Office of Waste Management;
- 15. Correspondence entitled <u>Proposal for Limited Subsurface Investigation</u>, received by the Department on January 11, 2002, prepared and submitted by F&O:
- 16. Correspondence entitled <u>Proposal for Remedial Assessment</u>, received by the Department on January 8, 2003, prepared and submitted by F&O;
- 17. <u>Remedial Evaluation Report Addendum</u>, received by the Department on February 11, 2003, prepared and submitted by F&O;

- 18. <u>Remedial Evaluation Report Addendum</u>, received by the Department on March 17, 2003, prepared and submitted by F&O;
- 19. Remedial Evaluation Report Addendum, dated April 2003, prepared by the Department's Office of Waste Management;
- 20. <u>Public Notice Letters</u> notifying abutters of investigation work, received by the Department on October 10, 2003, prepared and submitted by the Department of Planning and Development for the City of Providence;
- 21. Correspondence entitled <u>Site Security Former Lincoln Lace and Braid Property, Providence</u>, received by the Department on August 10, 2004, prepared and submitted by the Department of Public Parks for the City of Providence;
- 22. Correspondence entitled <u>Remedial Alternatives Analysis</u>, received by the Department on May 11, 2009, prepared and submitted by EA Engineering, Science, and Technology, Inc. (EA);
- 23. Correspondence entitled <u>Revised Remedial Alternatives Analysis</u>, received by the Department on July 8, 2009, prepared and submitted by EA;
- 24. \$1,000.00 Remedial Action Approval Application Fee, received by the Department on July 14, 2009;
- 25. <u>Historical Site Characterization Site Plan</u>, received by the Department on July 23, 2009, prepared and submitted by EA;
- 26. <u>Lincoln Lace and Braid Supplemental Sampling and Analysis Plan</u>, received by the Department on July 30, 2009, prepared and submitted by EA;
- 27. Sampling and Analysis Plan and Site-Specific Quality Assurance Project Plan for Supplemental Sediment and Surface Water Sampling, received by the Department on August 21, 2009, prepared and submitted by EA;
- 28. Sluiceway Sampling and Analysis Plan, received by the Department on August 25, 2009, prepared and submitted by EA;
- 29. <u>Supplemental Sampling Analytical Results</u>, received by the Department on December 1, 2009, prepared and submitted by EA;
- 30. <u>Revised Remedial Alternative No. 3</u>, received by the Department on December 1, 2009, prepared and submitted by EA; and

31. Correspondence entitled <u>Lincoln Lace and Braid Response to Comments</u>, received by the Department on February 1, 2010, prepared and submitted electronically by EA.

The Department regards the information provided in these reports as collectively meeting the requirements pursuant to Rule 7.08 Site Investigation Report (SIR) of the <u>Remediation Regulations</u>.

The Department requires that you give public notice to all abutting property owners, tenants, and utilities with easements on the completed SIR with the preferred alternatives being:

The preferred remedial alternative calls for the minimum placement of one foot of clean fill in the wetland buffer areas along the sluiceway and river, in addition to the introduction of wetland vegetation. The remaining areas of the site will be capped with a minimum of one foot of clean fill over a geofabric material. Due to floodplain displacement, excavation may be necessary prior to capping, therefore, any excess contaminated soils that cannot be consolidated and encapsulated onsite will be properly disposed of off-site at a licensed disposal facility in accordance with all local, State, and Federal laws. This remedial alternative also calls for the maintenance and monitoring of the engineered controls through the recording of an institutional control in the form of a Department approved Environmental Land Usage Restriction (ELUR) and Soil Management Plan (SMP), followed by annual compliance certification of the ELUR.

Remediation of the upper sluiceway shall consist of encapsulating the contaminated sediments with a geotextile overlaid by a geogrid and a minimum of six inches of 1 ½" stone aggregate. Excavation of the lower sluiceway will also be performed to allow for the installation of four check dams.

The Department acknowledges that the site investigation activities are complete. The Department is not yet able to formally approve the SIR, however, due to the necessity to first allow the public to comment on the preferred Remedial Alternative. Sections 7.07 and 7.09 of the Remediation Regulations outline the requirements for public notice to property abutters, tenants, and utilities with easements regarding the substantive findings of the completed investigation, and the opportunity for public review and comment on the technical feasibility of the preferred remedial alternative. Please submit a draft notification to the Department via e-mail for review and approval prior to distribution. The Department will require a copy of the approved Public Notice letter and a list of all recipients. The City of Providence is also reminded of it's obligation to comply with Rhode Island General Law 23-19.14-5 Environmental Equity and Public Participation due to the re-use of the property as a recreational facility. Despite the Office of Waste Management being notified of this release prior to the August 1, 2007, implementation of the Policy for Considering Environmental Justice in the Review of Investigation and Remediation of Contaminated Properties (the Policy), the Department strongly recommends that the

City of Providence adhere to this Policy to inform the public of future remedial activities at the site.

The Department will formally approve the SIR in the form of a Remedial Decision Letter once Public Notice is completed and upon Department approval of all final responses to relevant public comments. At that point, the Department will require submission of the draft Remedial Action Work Plan (RAWP) that shall include the draft ELUR and Soil Management Plan for review and approval in accordance with Sections 8.0 and 9.0 of the Remediation Regulations.

The ELUR, once approved, shall be recorded for Plat 113 / Lots 305 and 429 in the Land Evidence Records for the City of Providence and a recorded copy forwarded back to the Department.

If you have any questions regarding this letter, please contact me by telephone at (401) 222-2797 ext. 7147 or by email at tim.fleury@dem.ri.gov.

Sincerely,

Timothy M. Fleury

Engineer

Office of Waste Management

Authorized by,

Jeffrey P. Crawford

Principal Environmental Scientist
Office of Waste Management

cc: Kelly J. Owens, Office of Waste Management

Ronald Gagnon, Office of Customer and Technical Assistance

Martin Wencek, Office of Water Resources - Wetlands

Aaron Mello, Office of Water Resources – RIPDES

Alan Peterson, U.S. Environmental Protection Agency

Lisa Aurecchia, Woonasquatucket River Watershed Council

Steven Fischbach, Rhode Island Legal Services, Inc.

Ronald Mack, EA Engineering, Science, and Technology, Inc.

REMEDIAL DECISION LETTER CASE NO. 2009-018

July 7, 2010

Mr. Robert F. McMahon, Superintendent Providence Parks Department Dalrymple Boathouse Roger Williams Park Providence, RI 02905

RE:

Lincoln Lace and Braid - Mill Site

55-61 Ponagansett Street Plat 113 / Lots 305 and 429 Providence, Rhode Island

Dear Mr. McMahon:

In 2004, the Rhode Island Department of Environmental Management (the Department) amended the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in a timely and cost-effective manner. A Remedial Decision Letter (RDL) is a formal, written communication from the Department that approves a site investigation, identifies the preferred remedial alternative and authorizes the development of a Remedial Action Work Plan in order to achieve the objectives of the environmental clean-up.

The Department has the following documents on file in the matter of the above referenced "Site" (as defined in the Industrial Property Remediation and Reuse Act):

- Correspondence entitled <u>Lab Project # C1203</u>, <u>Client Project # NA</u>, received by the Department on November 21, 1996, prepared and submitted by Mitkem Corporation (Mitkem);
- Correspondence entitled <u>Gas Chromatography-Mass Spectrometry Analysis of</u>
 <u>Extractable Organics in Soils and Sediments Lace Textile</u>, received by the
 Department on December 4, 1996, prepared and submitted by the United States
 Environmental Protection Agency (USEPA);
- 3. Results of Subsurface Site Investigation, received by the Department on December 23, 1996, prepared and submitted by Fuss & O'Neill, Inc. (F&O);

Lincoln Lace and Braid – Mill Site Remedial Decision Letter Page 1 of 6 July 7, 2010



- 4. Correspondence entitled <u>Client Project #: Lincoln Lace, Lab Project #: E0020</u>, received by the Department on January 27, 1998, prepared and submitted by Mitkem;
- 5. Correspondence entitled <u>Work Plan</u>, received by the Department on October 27, 1998, prepared and submitted by Cyn Environmental Services (Cyn);
- **6.** Short-Term Response Report (Response Report), dated February 10, 1999, prepared and submitted by Cyn;
- 7. Laboratory Analytical Data Reports, dated May 27, 1999, prepared and submitted by ESS Laboratory;
- 8. Laboratory Analytical Data Reports, dated June 2, 1999, prepared and submitted by ESS Laboratory;
- Laboratory Analytical Data Reports, dated July 17, 1999, prepared and submitted by ESS Laboratory;
- 10. Correspondence entitled <u>Former Landfill / Dump Location and Extent</u>, received by the Department on October 2, 1999, prepared and submitted by F&O;
- 11. <u>Remedial Evaluation Report</u>, dated December 1999, prepared by the Department's Office of Waste Management;
- 12. Correspondence entitled <u>Testing Documentation</u>, dated December 1999, prepared and submitted by the Trust for Public Land;
- 13. Laboratory Analytical Data Reports, received by the Department on February 24, 2000, submitted by F&O;
- 14. <u>Pre-Design Investigation Report</u>, dated August 2000, prepared by the Department's Office of Waste Management;
- 15. Correspondence entitled <u>Proposal for Limited Subsurface Investigation</u>, received by the Department on January 11, 2002, prepared and submitted by F&O;
- 16. Correspondence entitled <u>Proposal for Remedial Assessment</u>, received by the Department on January 8, 2003, prepared and submitted by F&O;
- 17. <u>Remedial Evaluation Report Addendum</u>, received by the Department on February 11, 2003, prepared and submitted by F&O;

- **Remedial Evaluation Report Addendum**, received by the Department on March 17, 2003, prepared and submitted by F&O;
- 19. <u>Remedial Evaluation Report Addendum</u>, dated April 2003, prepared by the Department's Office of Waste Management;
- **Public Notice Letters** notifying abutters of investigation work, received by the Department on October 10, 2003, prepared and submitted by the Department of Planning and Development for the City of Providence;
- 21. Correspondence entitled <u>Site Security Former Lincoln Lace and Braid Property, Providence</u>, received by the Department on August 10, 2004, prepared and submitted by the Department of Public Parks for the City of Providence;
- 22. Correspondence entitled <u>Remedial Alternatives Analysis</u>, received by the Department on May 11, 2009, prepared and submitted by EA Engineering, Science, and Technology, Inc. (EA);
- 23. Correspondence entitled <u>Revised Remedial Alternatives Analysis</u>, received by the Department on July 8, 2009, prepared and submitted by EA;
- 24. <u>\$1,000.00 Remedial Action Approval Application Fee</u>, received by the Department on July 14, 2009;
- 25. <u>Historical Site Characterization Site Plan</u>, received by the Department on July 23, 2009, prepared and submitted by EA;
- **Lincoln Lace and Braid Supplemental Sampling and Analysis Plan**, received by the Department on July 30, 2009, prepared and submitted by EA;
- 27. Sampling and Analysis Plan and Site-Specific Quality Assurance Project Plan for Supplemental Sediment and Surface Water Sampling, received by the Department on August 21, 2009, prepared and submitted by EA;
- 28. Sluiceway Sampling and Analysis Plan, received by the Department on August 25, 2009, prepared and submitted by EA;
- 29. <u>Supplemental Sampling Analytical Results</u>, received by the Department on December 1, 2009, prepared and submitted by EA;
- 30. Revised Remedial Alternative No. 3, received by the Department on December 1, 2009, prepared and submitted by EA;

- 31. Correspondence entitled <u>Lincoln Lace and Braid Response to Comments</u>, received by the Department on February 1, 2010, prepared and submitted electronically by EA;
- 32. Correspondence entitled <u>Lincoln Lace and Braid Public Involvement</u>, received by the Department on February 11, 2010, prepared and submitted electronically by EA;
- 33. Correspondence entitled <u>Lincoln Lace and Braid Floodplain Revision</u>, received by the Department on March 23, 2010, prepared and submitted electronically by EA;
- 34. Correspondence entitled <u>Comments on Lincoln Lace & Braid clean up</u>, received by the Department on April 16, 2010, prepared and submitted electronically by Rhode Island Legal Services, Inc.;
- 35. Correspondence entitled <u>Lincoln Lace and Braid Public Involvement Letter</u>, received by the Department on April 23, 2010, prepared and submitted electronically by EA;
- 36. Correspondence entitled <u>Lincoln Lace and Braid Dioxin Sampling Summary</u>, received by the Department on May 20, 2010, prepared and submitted electronically by EA;
- 37. Correspondence entitled <u>Lincoln Lace and Braid Public Comments</u>, received by the Department on May 24, 2010, prepared and submitted electronically by EA;
- 38. Correspondence entitled <u>RE: Lincoln Lace and Braid Public Comments</u>, received by the Department on June 4, 2010, prepared and submitted electronically by EA;
- 39. Correspondence entitled <u>RE: Lincoln Lace and Braid Public Comments</u>, received by the Department on June 11, 2010, prepared and submitted electronically by EA;
- 40. <u>RIPDES Remediation General Permit Application</u>, received by the Department on June 9, 2010, prepared and submitted by EA;
- 41. Stormwater Pollution Prevention Plan, received by the Department on June 9, 2010, prepared and submitted by EA; and
- 42. Remedial Action Work Plan, received by the Department on June 9, 2010, prepared and submitted by EA.

Collectively, these documents define "Existing Contamination" at the Site, and fulfill the requirements of a Site Investigation Report (SIR) as described in Section 7.08 of the Remediation Regulations. In addition, according to our records, public notice was conducted to all abutting property owners and tenants, regarding the substantive findings of the completed investigation in accordance with Rules 7.07 and 7.09 of the Remediation Regulations. A public meeting was conducted in accordance with Rhode Island General Laws (R.I.G.L.), Title 23, Health and Safety, Chapter 23-19.14, Industrial Property Remediation and Reuse Act, and 23-19.14-5 Environmental Equity and Public Participation on March 4, 2010. The opportunity for public review and comment on the technical feasibility of the proposed remedial alternatives commenced on February 15, 2010, and the period closed on June 21, 2010. Public comments from Steven Fischbach on behalf of the Hartford Park Residents Association (HPRA) were responded to on June 11, 2010. No additional comments on the technical feasibility of the proposed remedy were received from HPRA or any other interested parties between June 11, 2010 and June 21, 2010.

On June 16, 2010, the Department received an e-mail from Steven Fischbach which did not include any additional comments on the technical feasibility of the proposed remedy, but did inquire about the process and timing for drafting and finalizing a separate agreement between the City of Providence and HPRA. On June 25, 2010, the Department responded via e-mail to Steven Fischbach's e-mail, indicating that any side agreement to cover items that would not otherwise be covered by the standard language and requirements included in a Department approved ELUR, was strictly between the City of Providence, HPRA, and himself. The Department's e-mail further stated that the proposed side agreement could be negotiated by the parties during the remedial action phase of the project and be finalized in time for the completion of the Site remedy.

The preferred remedial alternative, as stated in the abovementioned documents, consists of the following conceptual measures:

- The encapsulation of the soils on the property with one (1) foot of certified clean fill (or one (1) foot of gravel in the area of the proposed bike path) underlain with a geotextile material.
- The encapsulation of the delineated area of contaminated sediments in the sluiceway with a geogrid, geotextile, and six (6) inches of 1.5 inch minus crushed stone.
- The maintenance and monitoring of the engineered controls through the recording of an institutional control in the form of a Department approved Environmental Land Usage Restriction (ELUR) and Soil Management Plan (SMP), followed by annual compliance certification of the ELUR.

The Department hereby approves the SIR, with the above identified preferred remedial alternative, and shall begin review of the submitted Remedial Action Work Plan (RAWP). The RAWP review, approval, and implementation to achieve the objectives of the environmental clean-up shall be done in accordance with the following conditions:

- 1. Once the Department reviews the RAWP for consistency with Sections 8.0 and 9.0 of the Remediation Regulations, any written comments generated and forwarded as a result of the review(s) shall be incorporated forthwith into a revised RAWP, to be re-submitted for final approval.
- 2. Upon finalization of the RAWP, the Department will issue a Remedial Approval Letter, signifying Department approval. All remedial measures required by the Department shall be

implemented, in accordance with the approved schedule, to ensure all applicable exposure pathways at the site are appropriately addressed.

Please be advised that the Department reserves the right to require additional actions under the aforementioned <u>Remediation Regulations</u> at the Property should any of the following occur:

- A. Conditions at the Site previously unknown to the Department are discovered;
- B. Information previously unknown to the Department becomes available;
- C. Policy and/or regulatory requirements change; and/or
- D. Failure by the City of Providence or any future holder of any interest in the Property to adhere to the terms and conditions of the Department approved RAWP, schedule, RAL, ELUR and/or SMP for the Property.

Please note that the Department is in receipt of the RAWP and associated Remedial Action Approval Application Fee and will now begin review of the RAWP.

If you have any questions or are in need of any clarification regarding this document, please contact Timothy Fleury by telephone at (401) 222-2797 ext. 7147 or by e-mail at tim.fleury@dem.ri.gov.

Sincerely,

Timothy M. Fleury

Senior Engineer

Office of Waste Management

Authorized by,

Kelly J. Owens

Assoc. Supervising Engineer Office of Waste Management

Cc: Jeffrey P. Crawford, Office of Waste Management

Elizabeth Stone, Office of the Director

Ronald Gagnon, Office of Customer and Technical Assistance

Martin Wencek, Office of Water Resources - Wetlands

Aaron Mello, Office of Water Resources - RIPDES

Alan Peterson, U.S. Environmental Protection Agency

Steven Fischbach, R.I. Legal Services, Inc.

Gilberta Taylor, Hartford Park Residents Association

Lisa Aurecchia, Woonasquatucket River Watershed Council

Frank Postma, EA Engineering, Science, and Technology, Inc.

Ronald Mack, EA Engineering, Science, and Technology, Inc.



RHODE ISLAND

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

October 26, 2010

CERTIFIED MAIL

Mr. Robert McMahon, Director City of Providence Parks Department Roger Williams Park, Dalrymple Boathouse Providence, RI 02905

RE:

Remediation General Permit - RIPDES Permit No. RIG85G008 Former Lincoln Lace & Braid, 55 - 61 Ponagansett Avenue, Providence, Rhode Island

Dear Mr. McMahon:

Enclosed is the final authorization to discharge treated waste waters associated with contaminated groundwater dewatering from a sluiceway remediation project at the above-mentioned site under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program. The Authorization to Discharge should be attached to a copy of the 2008 RIPDES Remediation General Permit and be kept on-site as verification of authorization to discharge. All terms and conditions, outlined in the Remediation General Permit, must be met. Any permit non-compliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws of 1956, as amended, and is grounds for enforcement. For future references and inquiry, the permit number for this project is RIPDES No. RIG85G008.

Information detailing sampling and testing procedures, monitoring period, and due dates are outlined in Part II.B of the Remediation General Permit. Specifically, this section requires that influent and effluent samples be taken on the 1st, 3rd, and 6th day during the first week of discharge and analyzed using 72-hour turnaround time. Sampling for the remainder of the first month shall be weekly. After the first month of discharge, sampling shall be at least twice per month. Also, if there is any indication of treatment system malfunction or violation of effluent limitations, the system must be turned off and the RIPDES Program notified within 24-hours. All sampling shall be reported on Discharge Monitoring Report (DMR) forms. Please be advised that, a copy of the facility's DMR forms and instructions will be sent to the permittee in approximately one (1) month. The DMRs may be duplicated, but an originally signed copy must be sent to the RIPDES Program at the address below:

Senior Computer Operator
Rhode Island Department of Environmental Management
RIPDES Program
235 Promenade Street
Providence, Rhode Island 02908-5767

If there are any questions regarding the Remediation General Permit, feel free to contact Aaron Mello at (401) 222-4700, Extension 7405.

for Eric A. Beck, P.E.

Supervising Sanitary Engineer RIPDES Permitting Section

CC:

Annie McFarland, DEM/OWR (electronic)
Traci Pena, DEM/OWR (electronic)
Rob Schuster, RC&D, Inc. (electronic)

Tim Fleury, DEM/OWM (electronic) Ronald Mack, EA Engineering (electronic)



Office of Water Resources/Tel: 401-222-4700/FAX: 401-222-6177

Permit No. RIG85G008 Page 1 of 2

AUTHORIZATION TO DISCHARGE UNDER THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

2008 RIPDES Remediation General Permit

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended the

City of Providence Parks Department

Roger Williams Park, Dalrymple Boathouse Providence, RI 02905

And

R C & D, Inc. 17 Gordon Avenue Providence, RI 02905

are authorized to discharge treated groundwater from the site located at the

Former Lincoln Lace & Braid 55 – 61 Ponagansett Avenue Providence, RI 02909

to receiving waters named

Woonasquatucket River

in accordance with the conditions and requirements set forth in the 2008 RIPDES Remediation General Permit including but not limited to the effluent limitations and monitoring requirements associated with Discharge Category G discharging to Non-Class AA Waters with a Dilution Factor of 10 to 20. The specific pollutants for which monitoring requirements and effluent limitations under Discharge Category G must be met are indicated in the attached limitations page. Pollutant specific permit limitations and monitoring frequencies are listed in Part II.D.20 and Part II.E for Dilution Factors of 10 to 20 of the Remediation General Permit. All groundwater pumped at the site shall be treated using the system described in the plans submitted to the Department on June 9, 2010 and amended on October 15, 2010. The maximum daily treatment and discharge flow rate shall not exceed 100 gpm.

Coverage under the RIPDES Remediation General Permit and the authorization to discharge shall become effective on the date of signature.

Coverage under the RIPDES Remediation General Permit and the authorization to discharge shall expire at midnight, on September 30, 2013.

The issuance of this authorization does not relieve the permittee from compliance with any other applicable laws or regulations administered by the Department of Environmental Management or any other governmental entity.

Signed this 26th day of October 2010.

for Fric A. Beck, P.E., Supervising Sanitary Engineer

Office of Water Resources

Rhode Island Department of Environmental Management

Providence, Rhode Island

Permit No. RIG85G008 Page 2 of 2

The following table indicates which pollutants within Discharge Category G, Non-Class AA Waters for dilution factors of 10 to 20 are applicable to Permit No. RIG85G008.

Pollutant	Monitoring & Limits Are Applicable If Checked	Pollutant	Monitoring & Limits Are Applicable If Checked
Flow	√	Total Group I PAHs	
Total Suspended Solids	√	Benzo (a) Anthracene	
Total Residual Chlorine		Benzo (a) Pyrene	
Total Petroleum Hydrocarbons	√	Benzo (b) Fluoranthene	
Cyanide		Benzo (k) Fluoranthene	
Benzene		Chrysene	
Toluene		Dibenzo (a,h) anthracene	
Ethylbenzene		Indeno (1,2,3-cd) Pyrene	
Total Xylenes (m,p,o)		Total Group II PAHs	
Total BTEX		Acenapthene	
Ethylene dibromide		Acenapthylene	
Methyl-t-Butyl Ether (MTBE)		Anthracene	
Tert-Amyl Methyl Ether	6	Benzo (ghi) Perylene	
Carbon Tetrachloride		Fluoranthene	
1,4 Dichlorobenzene		Fluorene	
1,2 Dichlorobenzene		Napthalene	
1,3 Dichlorobenzene		Phenanthrene	
Total Dichlorobenzene		Pyrene	
1,1 Dichloroethane		Total Polychlorinated Bipheyls	
1,2 Dichloroethane	MINESON CARD SHOPE 2-00-10 17 YES CO.	Antimony (total recoverable)	
1,1 Dichloroethylene	0	Arsenic (total recoverable)	√
cis - 1,2 Dichloroethylene		Cadmium (total recoverable)	
Dichloromethane		Chromium III (total recoverable)	
Tetrachloroethylene		Chromium VI (total recoverable)	
1,1,1 Trichloroethane		Copper (total recoverable)	
1,1,2 Trichloroethane		Lead (total recoverable)	√
Trichloroethylene		Mercury (total recoverable)	
Vinyl Chloride		Nickel (total recoverable)	
Acetone	¥01	Selenium (total recoverable)	
1,4 Dioxane		Silver (total recoverable)	
Total Phenols		Zinc (total recoverable)	
Pentachlorophenol		Iron (total recoverable)	√
Total Phthalates			
Bis (2-Ethylhexyl) Phthalate			

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

October 18, 2010

CERTIFIED MAIL

Mr. Robert McMahon, Director City of Providence Parks Department Roger Williams Park, Dalrymple Boathouse Providence, RI 02905

RE: RIPDES Storm Water General Permit for Construction Activity

Former Lincoln Lace & Braid - Mill Site

55-61 Ponagansett Avenue, Providence, Rhode Island

RIPDES No.: RIR100783

Dear Mr. McMahon:

Enclosed is your final authorization to discharge storm water associated with construction activity under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Program. The Authorization to Discharge should be attached to your copy of the 2008 RIPDES General Permit for Storm Water Discharge Associated with Construction Activity (2008 Construction General Permit, which you already have on file), and be kept on-site as verification of authorization to discharge. All terms and conditions outlined in the 2008 Construction General Permit must be met. Any permit non-compliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws of 1956, as amended, and is grounds for enforcement. For future references and inquiry, your permit authorization number is RIPDES **No. RIR100783**.

RIDEM strongly recommends that you obtain written assurances from contractors or subcontractors retained to undertake construction activity that they will comply with all applicable requirements.

If you have any questions regarding the General Permit, you may contact Aaron Mello or myself at (401) 222-4700, Extensions 7405 and 7202, respectively.

Sincerely,

Eric A. Beck, P.E., Supervising Sanitary Engineer

RIPDES Permitting Program

cc: Annie McFarland, DEM / OWR (Electronic Copy)

Traci Pena, DEM / OWR (Electronic Copy)
Timothy Fleury, DEM / OWM (Electronic Copy)

Ronald Mack, EA Engineering, Science, & Technology (Electronic Copy)

AUTHORIZATION TO DISCHARGE UNDER THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM 2008 General Permit for Storm Water Discharge Associated with Construction Activity

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended,

City of Providence Parks Department Roger Williams Park, Dalrymple Boathouse Providence, RI 02905

are authorized to discharge Storm Water Associated with Construction Activity from a facility located at

Former Lincoln Lace & Braid 55 – 61 Ponagansett Avenue Providence, RI 02909

to receiving waters named

Woonasquatucket River

in accordance with the conditions and requirements set forth in the 2008 General Permit for Storm Water Discharge Associated with Construction Activity.

In accordance with Part I.C.2 of the 2008 General Permit for Storm Water Discharge Associated with Construction Activity, coverage became effective June 9, 2010.

Coverage under the General Permit for Storm Water Discharge Associated with Construction Activity and the authorization to discharge should expire at midnight, on September 25, 2013.

The issuance of this authorization does not relieve the permittee from compliance with any other applicable laws or regulations administered by the Department of Environmental Management or any other governmental entity.

Signed this 18th day of October, 2010.

Eric A. Beck, P.E.

Supervising Sanitary Engineer

RIPDES Permitting Program, Office of Water Resources Rhode Island Department of Environmental Management

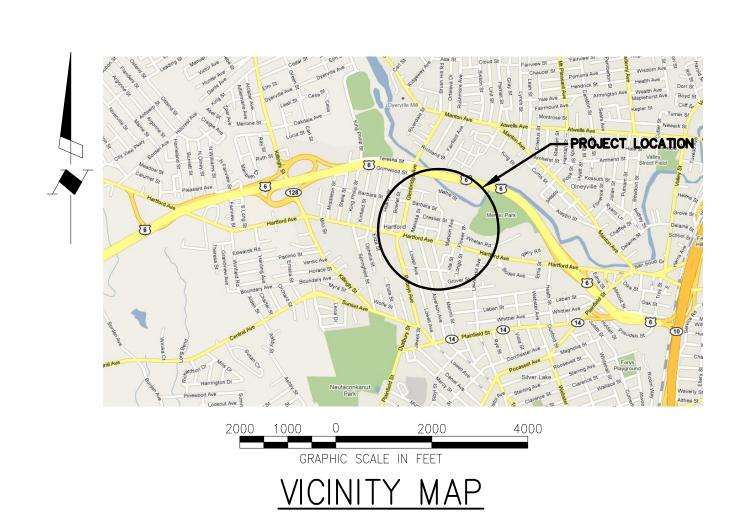
Providence, Rhode Island

Appendix B Final Design Plan Set

LINCOLN LACE AND BRAID REMEDIATION PROJECT

PROVIDENCE, RHODE ISLAND

PREPARED FOR: THE CITY OF PROVIDENCE PARKS DEPARTMENT



DRAWING NUMBER	SHEET NUMBER	DRAWING TITLE
T-1	1 OF 7	TITLE SHEET
C-1	2 OF 7	EXISTING CONDITIONS PLAN
C-2	3 OF 7	PROPOSED CONDITIONS PLAN
C-3	4 OF 7	PROPOSED FILL AREA
C-4	5 OF 7	PROPOSED SLUICEWAY
C-5	6 OF 7	CONSTRUCTION MANAGEMENT PLAN
C-6	7 OF 7	PLANTING PLAN



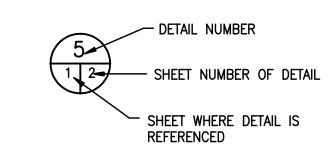
1000 Elmwood Avenue Providence, Rhode Island 02905 (401) 785-9450

PREPARED BY

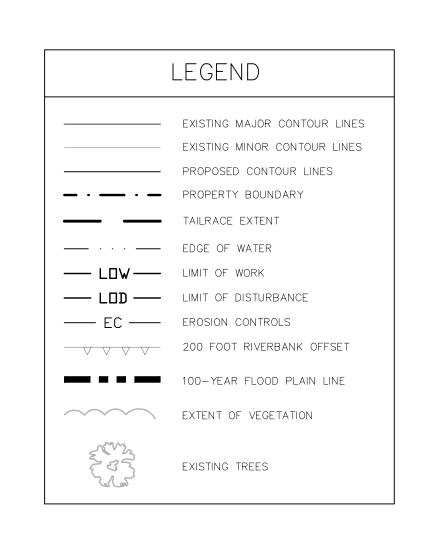


2350 Post Road Warwick, Rhode Island 02886 (401) 736-3440

REFERENCE SYMBOLS

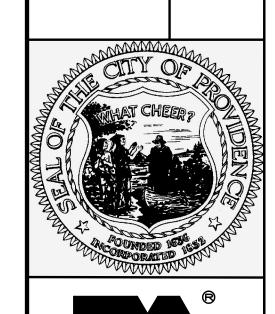


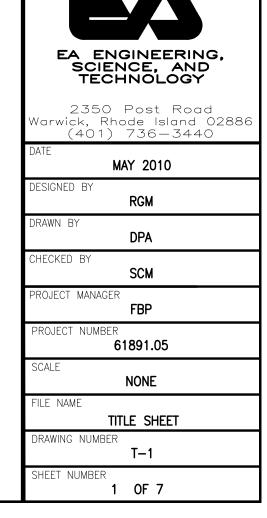
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LOW N.T.S. O.C. P.E. REQ'D RET RI SF SRW TYP	FLOOD LEVEL FEDERAL EMERGENCY MANAGMENT AGENCY LIMIT OF WORK NOT TO SCALE ON CENTER PROFESSIONAL ENGINEER REQUIRED RETAINING RHODE ISLAND SILT FENCE

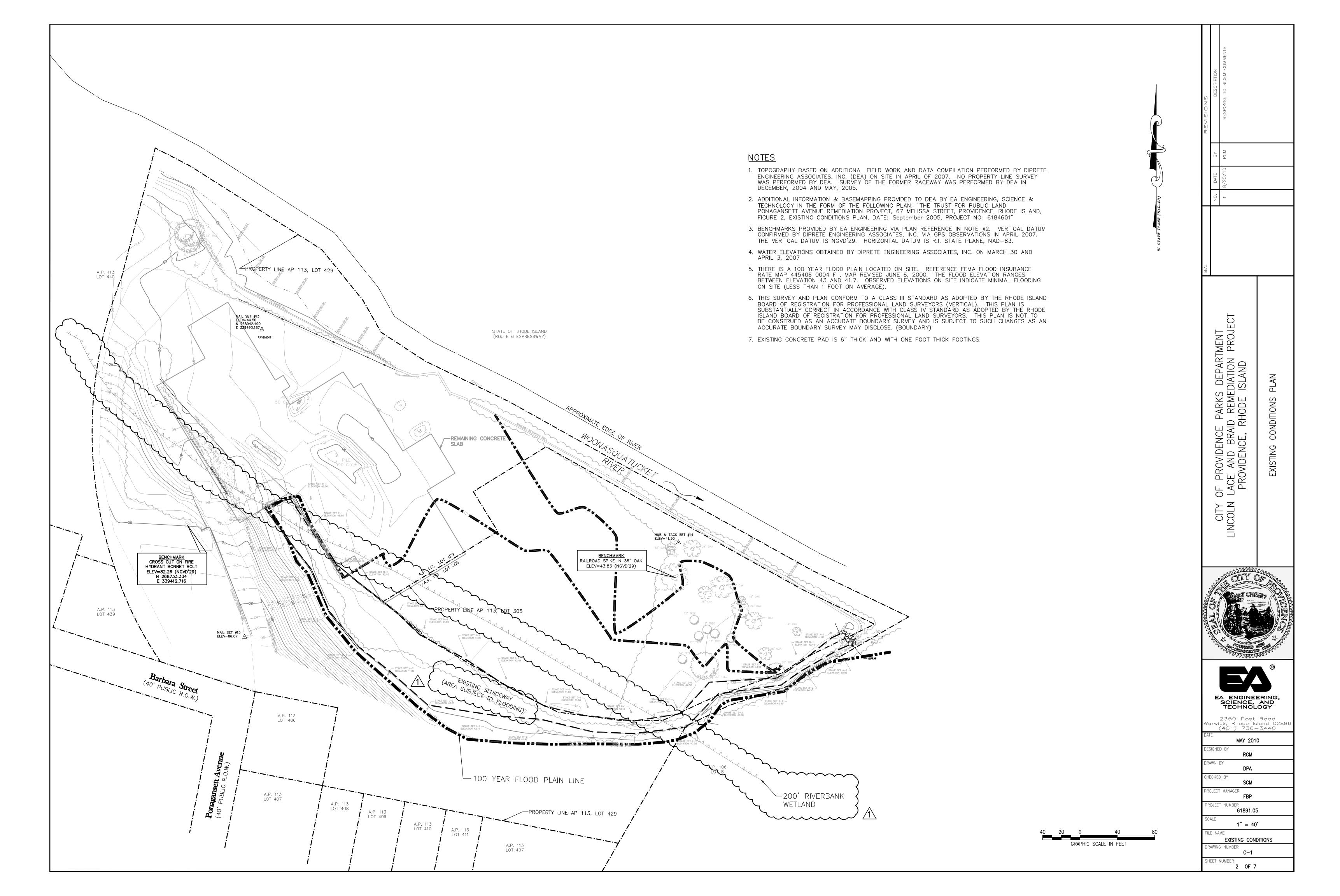


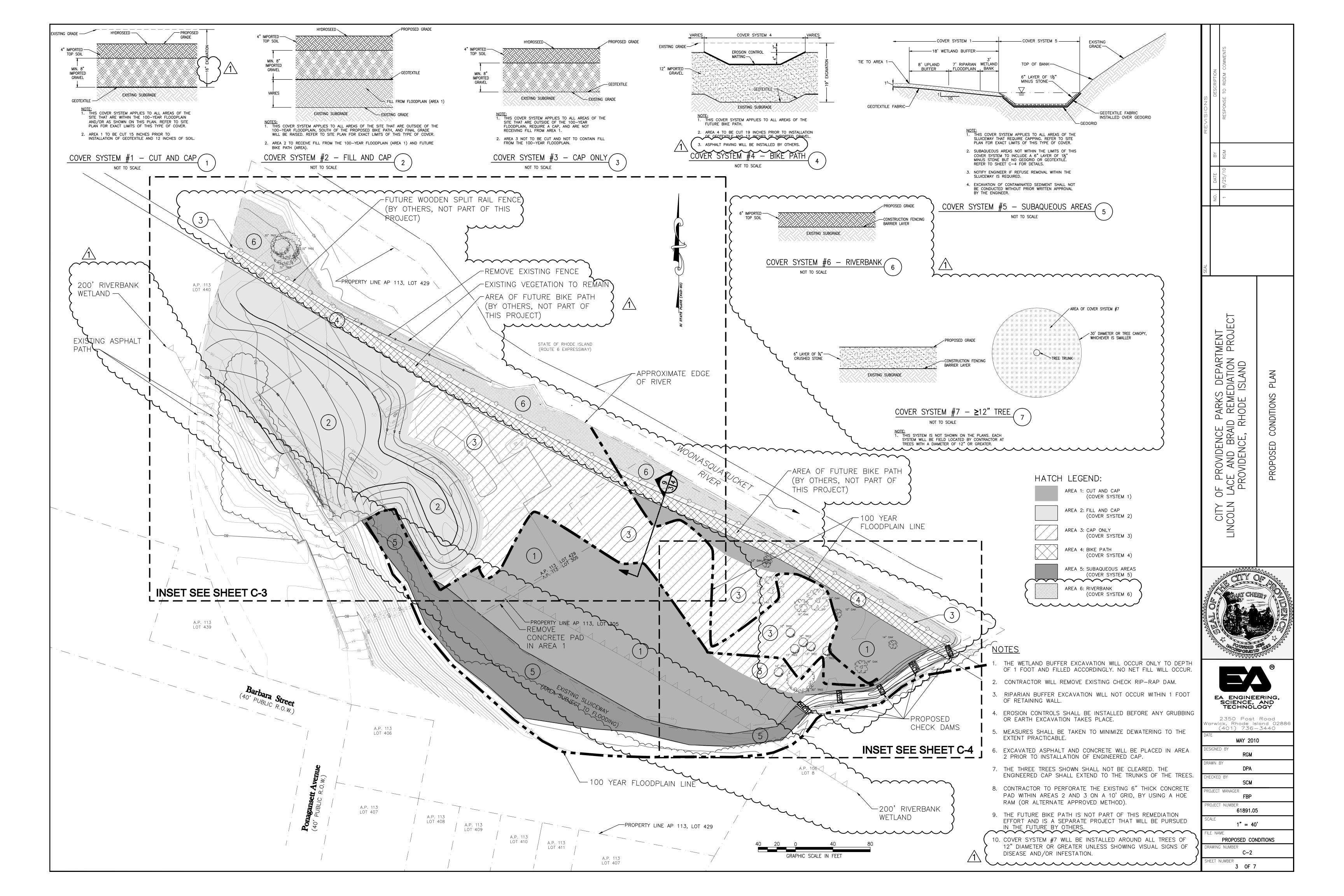
REVISIONS	DESCRIPTION	RESPONSE TO RIDEM COMMENTS
	ВУ	RG M
	DATE	8/25/10
	NO. DATE	1 8/25/10

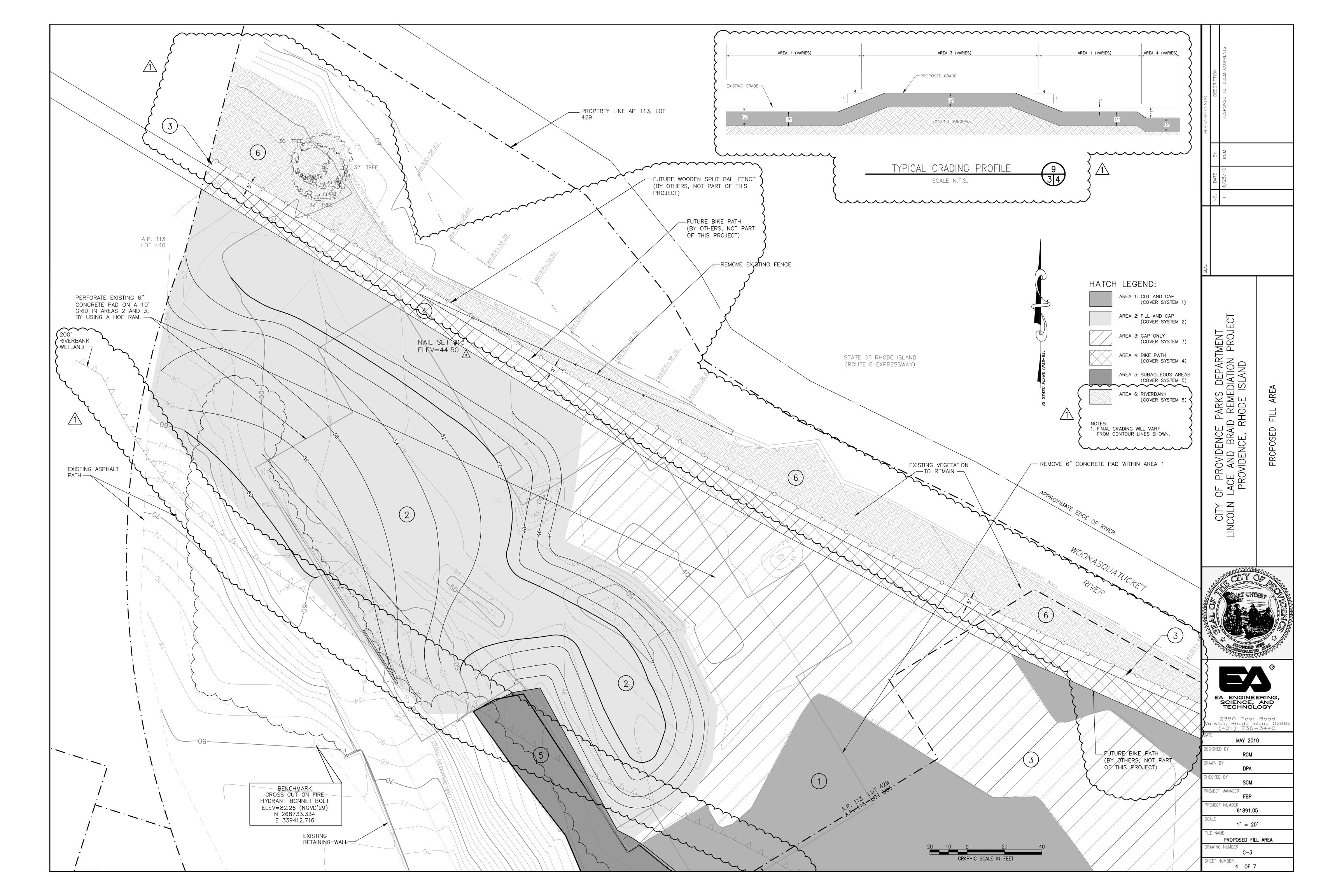
CITY OF PROVIDENCE PARKS DEPARTMENT ACOLN LACE AND BRAID REMEDIATION PROJE PROVIDENCE, RHODE ISLAND

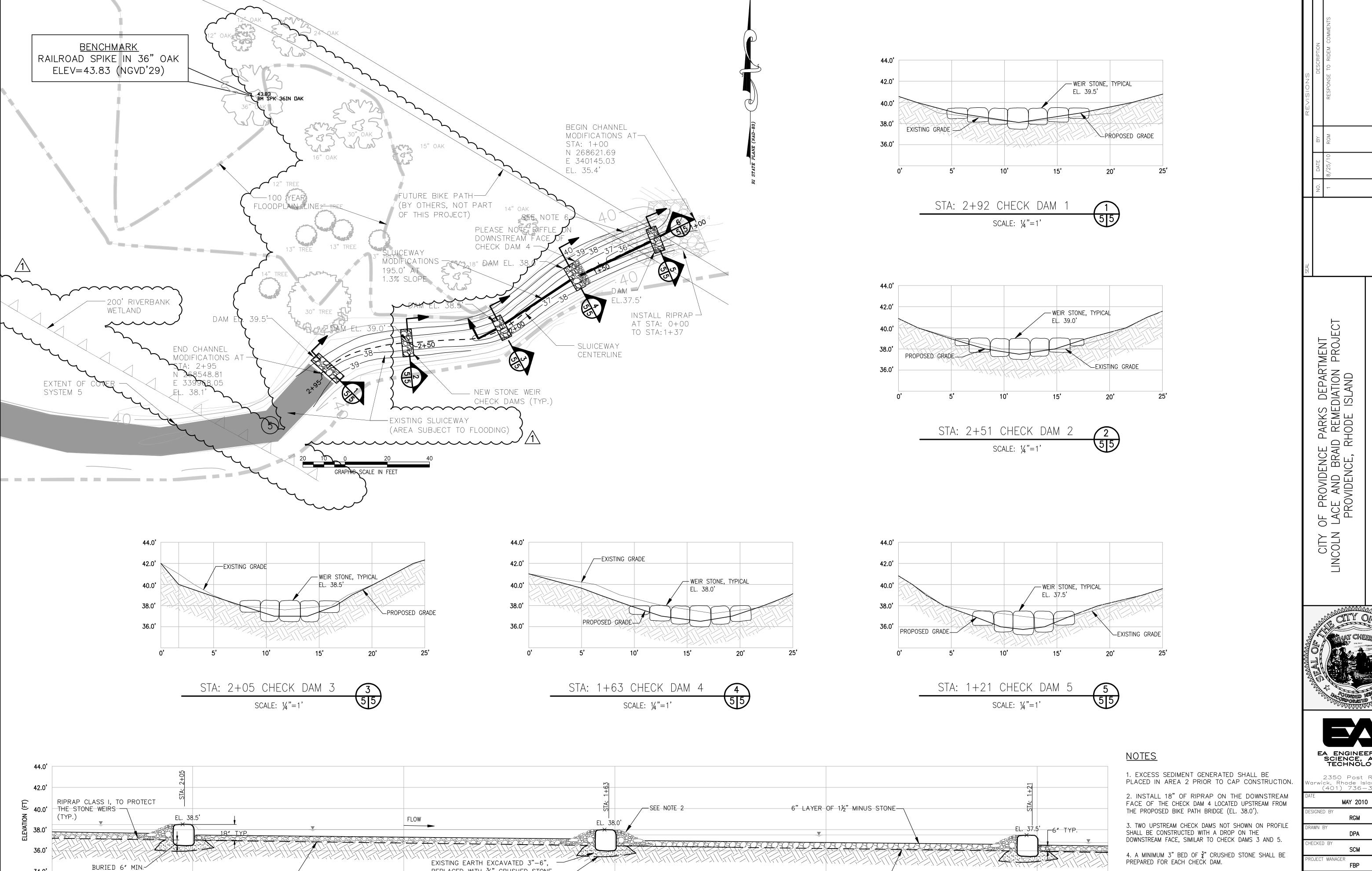












REPLACED WITH 34" CRUSHED STONE

GEOTEXTILE —

SCALE: 1/4"=1'

TYPICAL STONE WEIR PROFILE

(SEE NOTE 4)

1+60

34.0'

2+00

GEOTEXTILE—

PREPARED FOR EACH CHECK DAM.

5. A MINIMUM 6" BED OF $1\frac{1}{2}$ " CRUSHED STONE SHALL BE

1+20

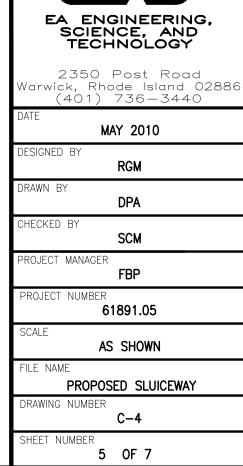
1+40 GEOTEXTILE—

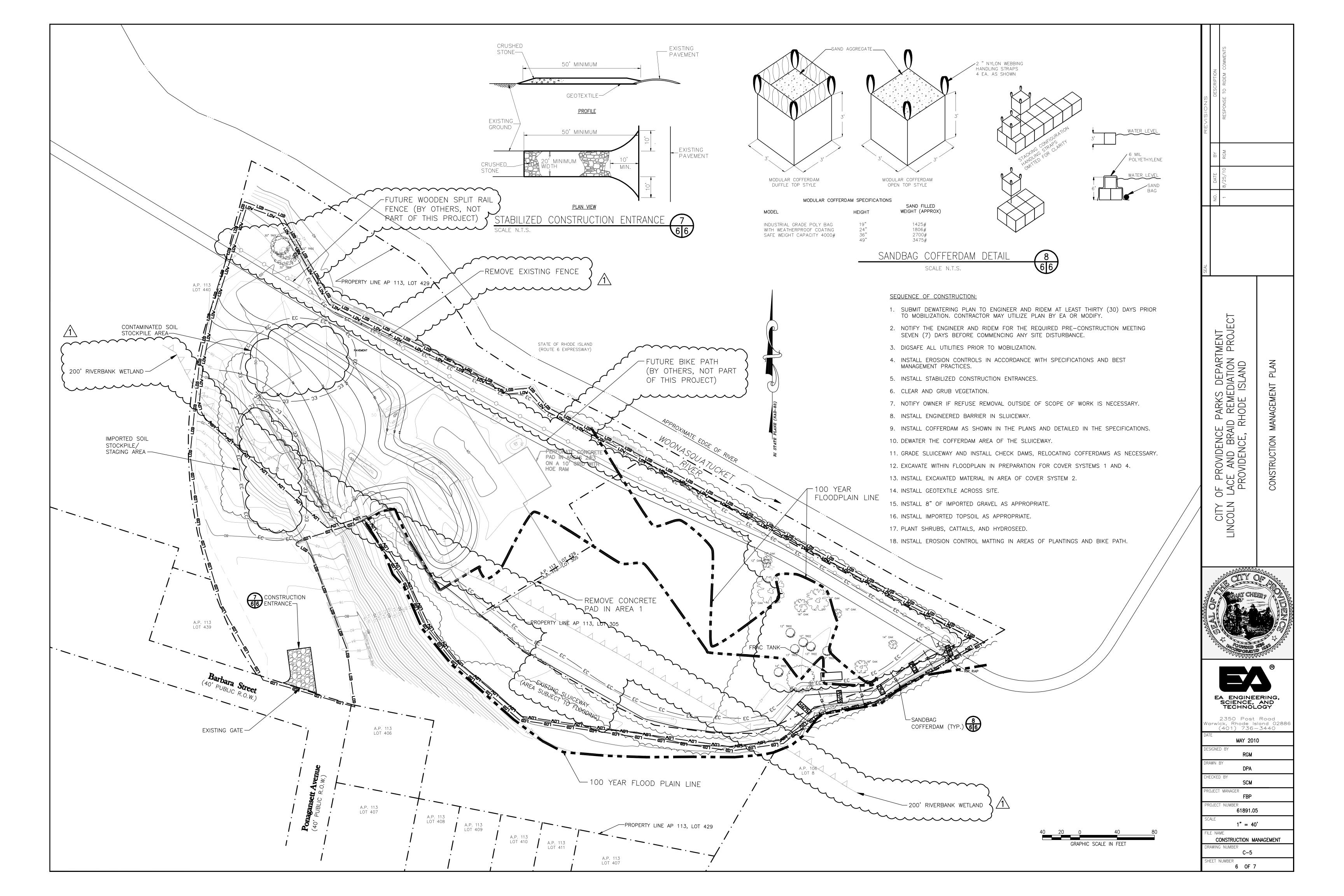
INSTALLED IN ALL DISTURBED AREAS OF SLUICEWAY. 6. A MINIMUM 1' LAYER OF CLASS I RIPRAP SHALL BE INSTALLED ALONG SLUICEWAY BANKS IN AREA BENEATH THE

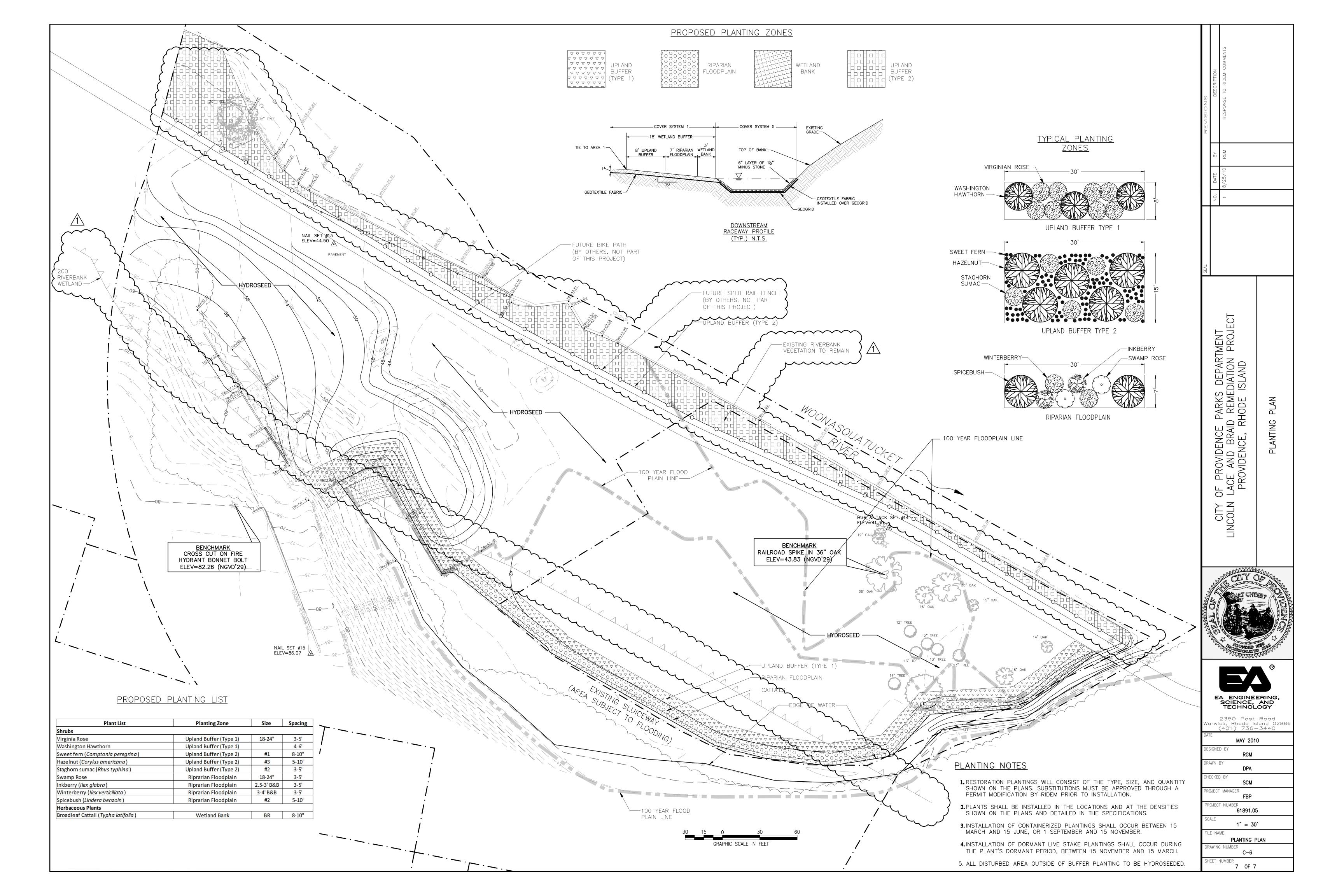
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PROPOSED BIKE PATH BRIDGE.

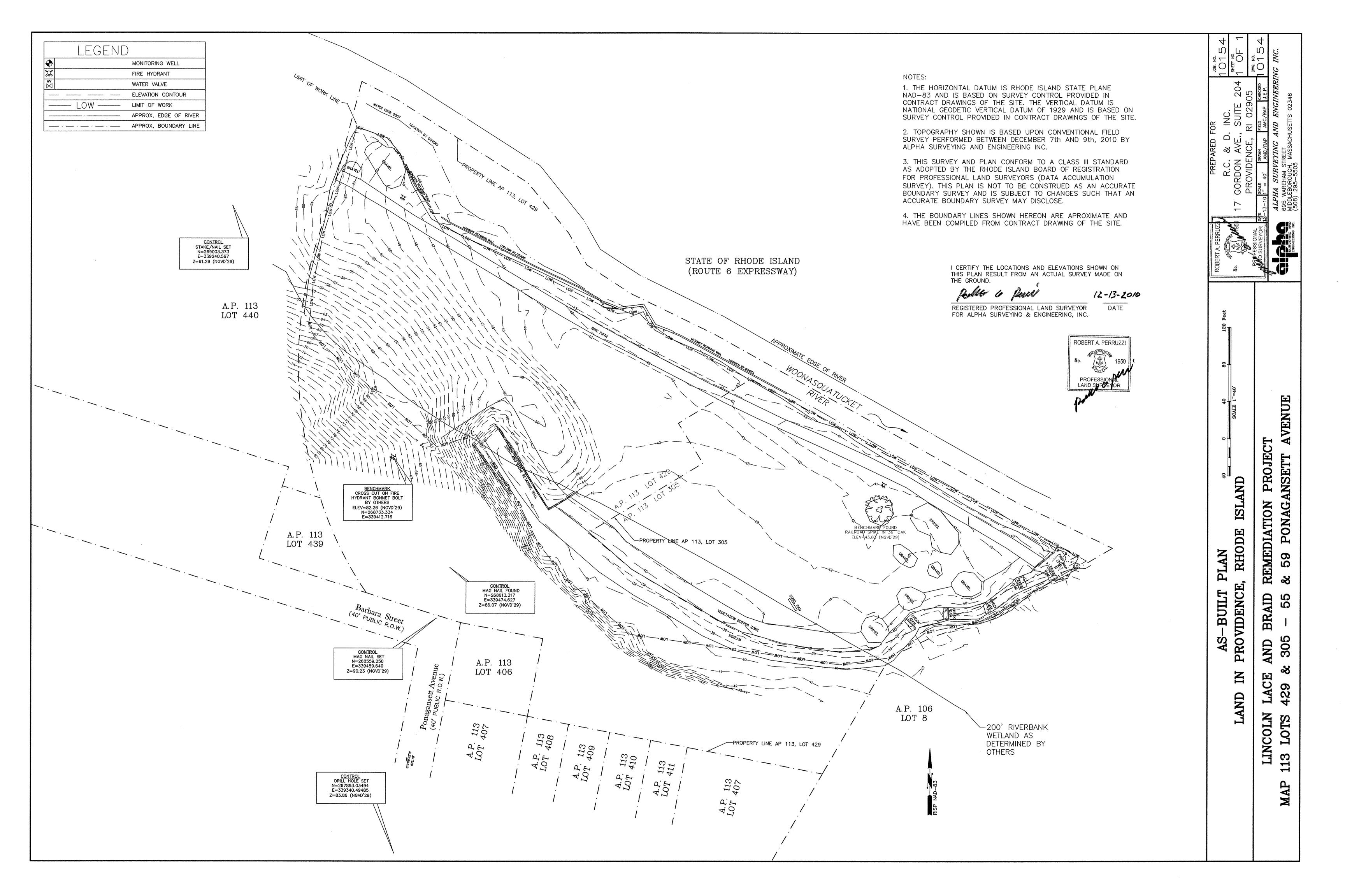
SOPREMEDITOR NEWS	CITY OF THE CHEER?







Appendix C As-Built Plan Set



Appendix D Weight Slips of Imported Soils

Unit Prize November Storm soils Soll to Control of Co Description

Received no. 77

Date: 12 106/10 Amount are Delivered Unit Price Total Delivery Tax Sub Total Address: 120 Magansett P. ouglande Eicked Up read custom soils sold to: A C & Canton, NA 02021 Scret Description Job Name: City/State: PO. * Received By: -Condition Wise Roof Garden Soil COD Topdressing Sand Root Zone Mix **Bunker Sand** Infield Mix a Division of Wall Saw / Charles **1-888-475-5526** Joy de Loam Other Trucks Charge Gross: Tares 38766 Ä . Date: 13/06/10 Amount 000 Delivered Total Tax Sub Total Delivery Unit Price Donagan Sett Providence R C & I Picked Up

Main Office 125 Turnpike Street

Canton, MA 02021

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Topdressing Sand

Topdressing Mix

Bunker Sand

Root Zone Mix

Inffeld Mix

RO F THE STATE OF

Description

Job Name: 2

City/State: Address:

& Division of IRRESIDENCES, CARROLL

1-888-475-5526

read custom soils sold to:-

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Other

Roof Garden Soil

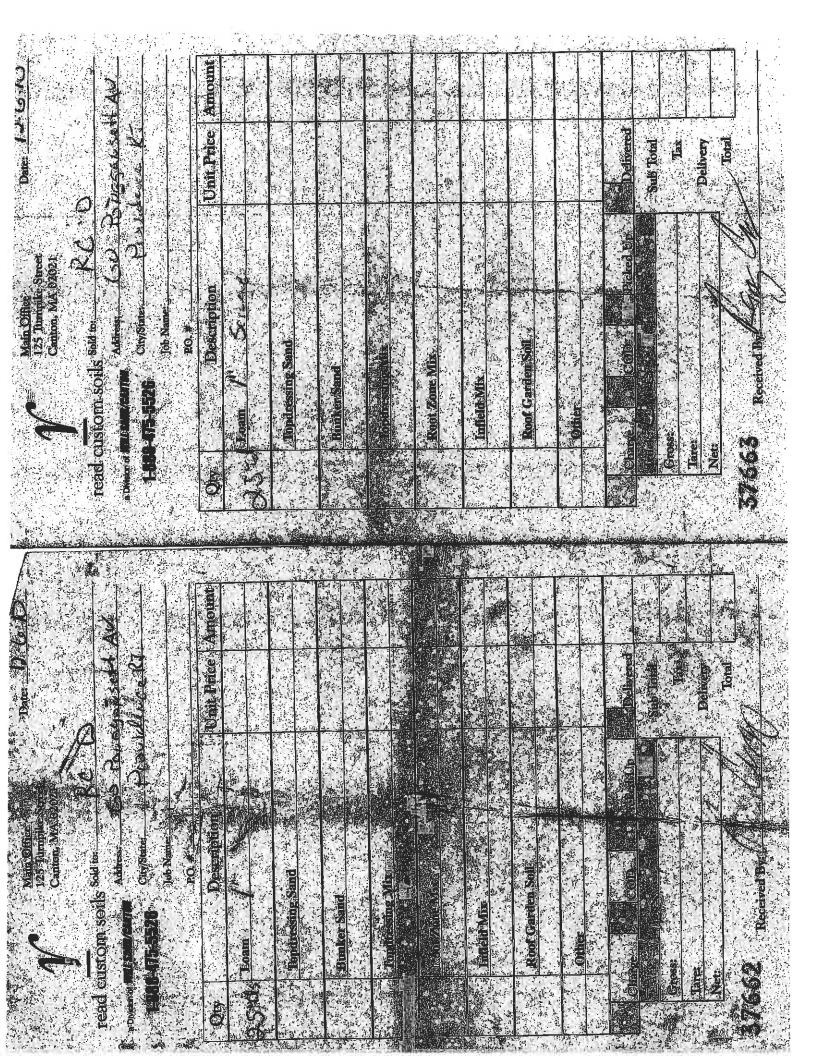
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Gross: Tare: Net:

COD

Charge

Received By:



Date: 12 /03 1/0

Date: 10/ . (5 . 1)

Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: Q C & 1

Panagansett ave Address: 55-61

Amount Delivered Unit Price Total Sub Total Tax Delivery 2 2 0 City/States Providence -BO. # 100/ - 00 Job Name: 14 C.D In-Picked Up Serephood Description Blanton Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** a Division of Mall Salar/Ball Tall Inffeld Mix 35 yels Loam 1" 1-588-475-5526 Other Truck: Charge Gross: Tare: Net Qty

Amount CO POURCE X 14 4U Delivered Sub Total Unit Price Total Tax Delivery 77 Thou Land Ficked Up Main Office 125 Turnpilee Street Canton, Mrs.02021 PO. å, Description/ City/State: Job Name: N işe. Received By: 🖄 Address: read custom soils sold to:-Roof Garden Soil O Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** a Division of WWL SAMO/CANTON Infield Mix 1-888-475-5526 Other Loam Truck: Charge Gross: 37661 Tare: Net: TO SCH Qty

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Received By:

Date: 12 102 110 Main Office 125 Turnpike Street

Canton, MA 02021

Anggangett ave read custom soils sold to: 10 C * D Address: 55-61

7007 007 Job Name: City/Stage:

Amount Delivered Unit Price Delivery Sub Total Tax 18 Picked Up Topdressing Mix AN reened Description Blanton * Od Roof Garden Soil Topdressing Sand COD Root Zone Mix **Bunker Sand** a Division of Wall State/Charlet Infield Mix Other 25 gd S Loam Truck: Charge Gross: Tare: Net:

Main Office 125 Turnpike Street

Date: 19-0-10

Canton, MA 02021

55-61 Popular + 164 TI Address: read custom soils sold to: a Division of BRIL SAME/CANTON

1-868-475-5526

Por derice 1/0/1 City/State: Job Name:

Och - Le

PO: #

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HARMS 55-61 PONASAMSETT

ChyState: PEOUN EASCE, R.I

JOB NAME: JUNCOLN LACE

1-888-475-5526

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Date: 104-4-11/

Main Office 125 Turapike Street Canton, MA 02021

Amount V Delivered Unit Price Total Sub Total Tax Delivery Picked Up P LOG M Description ANGUS SCR. COD Roof Garden Soil Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Other Loam Charge Truck: Gross: Tare: Net 8,540S Q

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Canton, MA 02021

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AUE Address: 55-61 FOURGANSETT 7 City/State: PROUIDENCE read custom soils sold mi A.C.1

Tob Name: CAOCOLD

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Main Office 125 Turnpike Street Canton, MA 02021

Date: 13-3-10

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Address SS- 61 TONAGANSETT read custom soils sold to: R.C.D

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City State: PROLUI DEACE a Division of 1971 SAND/CARTON 1-888-475-5526

LACE Job Name: L'INCOLA PO. #

Amount Delivered Unit Price Tax Sub Total Picked Up COOM Description ANSUS SCR. Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Ξ Other Truck: Loam Charge Gross: 35403 QU

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Main Office 125 Turnpike Street Canton, MA 02021	
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-Rei read custom soils sold to Address: a Division of Will Salis/Calification

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1500 12000 4 4 1/4/17 Job Name:

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Other

Main Office 125 Turnpike Street Canton, MA 02021

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read custom soils sold to: R.C.D

City/State: TROUIDENCE A.I Job Name: LINCOLN a Division of Mall SAND/PANTON 1-888-475-5526

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Amount Unit Price SCE. LOAM Description PO. #

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125 Turnpike Street Canton, MA 02021

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Main Office 125 Turnpike Street Canton, MA 02021

Date: (3 . 2 . 1.2)

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1-888-475-5526

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4		Bunker Sand			
		Topdressing Mix			
		Root Zone Mix			
		Infield Mix			
)		Roof Garden Soil		,	
		Other			<u> </u>
. 2	ਤੂੰ	Charge COD Picked Up	Delivered		
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Unit Price Amount DATE OF STREET Johnson Linkella 200 F Bran. Delivered Total Sub Total Tax Delivery read custom soils sold in RULD Zu Main Office 125 Turmpike Street Canton, MA 02021 PO. # 1056:007 Description COD Roof Gurden Soil Root Zone Mix **Bunker Sand** Infield Mix Loam Net Inc. à Unit Price | Amount Total Sub Total 100 Name LIACATA LACK Box TOO - TEXT * OIL Desortbion Roof Garden Soil **Topdressing Sand**

AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

LOCATION CALLED / PROJ

DATE 11-24 20/01

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STEVES STATESS ST

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Signed // bengis



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

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CATION CANTON PRIVIL

E11-24 2010

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<u>Main Office</u> 125 Turnpike Street Canton, MA 02021

read custom soils sold to: KU+D

Address

a Division of With Sake/Castres

1-883-475-5526

City/State:

(A) Job Name: LYDY CAL LACE

COU. 2001 # 04

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Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: AL + D

a Division of **1970 Sense / Gust Tox** 1-888-475-5526

City/State:

Address:_

Job Name: 4-120 0/2

RO. # 1006- 002

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Main Office 125 Turnpike Street Canton, MA 02021

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a Division of WILL SAND/CANTON

1-888-475-5526

City/State:

Incolni Core + Re Po. # 1006 C.C.7 Job Name:

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Tead custom soils sold to: Main Office 125 Turnpike Street Canton, MA 02021

Date: 11

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a Division of Third Sales (Sales 1981)

City/State: 1-888-475-5526

100 Job Name: LACOLOLO Şiş n

PO. #1006- C.C.

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DATE 11-23 なしまいる 区



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 AND HEAVY EQUIPMENT

LOCATION CANTOL to 1 RON 1 12

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read custom soils sold to. Ret D Inc. Main Office 125 Turnpike Street Canton, MA 02021

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1-888-475-5526

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Ro. # 1006-007

Amount

Unit Price

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Job Name: Little (1)

City/State:

a Division of WRL SAMM/CANTON

1-888-475-5526

read custom soils Sold to: Kat + D

TO: # 100 # 101

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Topdressing Sand

Topdressing Mix

Bunker Sand

Root Zone Mix

Infield Mix

Qty	Description	Unit Price	Amount
N (Loam (Screened		
3			
	Tondressing Sand		
	Bunker Sand		
	Topdressing Mix		
	Root Zone Mix		
	Infield Mix		
	Roof Garden Soil		
	Other		
2	CON Philipped I'le	Delivered	
5		0. I. T. 4-1	
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Ž	Net:		

Total

Delivery

Lax

Delivered

Picked Up

COD

BIDES

Truck: Charge

Gross:

Tare: Net:

Roof Garden Soil

Other

Sub Total

Received By:

Total

Received By: -

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Qev	Description	Unit Rive Amount	Amount	5
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AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

ROW NIN

SATION C. PINTON

	DESCRIPTION	GRAVEL	FILL	(LOAM)	DOZER	LOADER	TRUCKS	ig.		
2	HOURS		34		,		·			vi)
	YARDS		6:30	3.30			3,			
	LOADS	~	Faom	10				Gross	Tare	NET

Date: 11.73-10

Main Office 125 Turnpike Street Canton, MA 02021

TOCA read custom soils sold to:

a Division of WILL SAND/CANTON 1-868-475-5526

City/States June 1876 61 1. 2001 - 3-

PO. # 10.06-007 Job Name:

Amount Delivered Unit Price Tax Delivery Sub Total Picked Up Description COD Roof Garden Soil Topdressing Sand Topdressing Mix Loam! Server Root Zone Mix Truck: B+BF13 **Bunker Sand** Infield Mix Other Charge Gross: Tare: No. Q ty

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11-35-10

ジュー read custom soils sold to Rich D

a Division of **URIL SAMB/GANTON**

1-888-475-5526

Siaid Job Name: Little In LACE to PO. # 100 6- Oc. City/State:

Amount Delivered Unit Price Tax Delivery Sub Total Picked Up Description C Sirre Ħ Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix ý. Other Loam Charge Truck: Gross: Tare: Net: 125 x51 Qry

Total

Received By:

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Total

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Main Office
1235 Thungilie Sirver
Canton, MA 02021

ad custom souls solding 1 1 2 1 1

Name (ARI CIM AN CAT STORY

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11-72	DAIE	TRUCK#	5+34/3	-	LOADS YARD	3 600	Cur	J.		630	300 m 4/2	Gross	NET NET	2576	
Unit Price PArticing														Sub Total	
Description		Louis Scarceres	Total Confidence			BunkerSand	Thought sing Mix		Total Transmission of the Control of	Andeld Milk			New Control of the Co	ge Cop Villedus	



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 LOCATION CARAN / PROD

DATE 11-23 20 (3)

DRIVER	TWells
RUCK#	B+B#13

	DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS		
	HOURS	Loren	- 40				·		
	YARDS	COMOS	Cumbo	Pros		((9%)		
	LOADS	3	•			630	W 025	Gross	NET
-		·						40 20 15	COV.

Signed

Date: 11-23 %.

Main Office 125 Turnpike Street Canton, MA 02021

a Division of WILL SAND/CONTON

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Canton, MA 02021	read custom soils sold to: id + D Int.	
***************************************	read cus	

City/State:

Job Name: Littoin Laic

100 - 3000 # 08

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	Other			- Service & L
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ঠ	Gross:	Tax		er-range)
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Net	11	Total		

Main Office 125 Turnpike Street Canton, MA 02021

read custom soils Sold to: Kit DILDK.

a Division of WELL SAND/PRATES

City/State: 1-888-475-5526

Job Name: LICECHO LAKE & BOOK

RO. # 10/06- 067

Description Secretary	Unit Price	Amount
Addust Zerra Coo		
Topdressing Sand		
Bunker Sand		
Topdressing Mix		
. 1	•	
Root Zone Mix		
Infield Mix		
Roof Garden Soil		
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COD Picked Up	Delivered	
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Received By: --

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	Loam	7			
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	BunkerSound				
	Thomas education				
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	Roof Garden Soil				
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Gross.					
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AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

OCATION fracture + o Bruto

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DRIVER 🖟 W. Seller CCK#

LOADER **TRUCKS** GRAVEL DOZER DESCRIPTION LOAM HOURS YARDS LOADS

Main Office 125 Turnpike Street Canton, MA 02021

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read custom soils sold to: id the To

Date: 11.27-14.

Date: 11-73-16

Main Office 125 Tumpike Street Canton, MA 02021

read custom soils sold to: Address:

a Division of MILL SAMP/BANTON 1-888-475-5526

City/State:

Job Namer List List Low Low

Unit Price | Amount RO. # 1 (20 6 : C.C.) Description

Unit Price

Job Name: Lank uly Lon

City/State:

Address:

a Division of WILL SAND/CANTON

1-868-475-5526

RO. # 1(U6 - CO)

Description

Q Ct

Loam | Secretary

25/11/2

Topdressing Sand

Topdressing Mix

Bunker Sand

Root Zone Mix

Amount													
Unit Price			ji v		611				Delivered	Sub Total	Tax	Delivery	Total
Description	Loam (Starkey	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil	Other	Charge COD V Picked Up	1403.	Gross:	Tare:	
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Roof Garden Soil

Other

Infield Mix

Sub Total

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Truck: Charge

Gross:

Tare: Net: Received By: .

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Received By: -

DATE 1/23	TRUCK	CANCH	LOADS			Marian Marian			Gross	Tare	NET	n a s		
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6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														
Description														
	Morning Control	Topdiessing Sand	Bunker Sand		Topdressing Mix		il. facility/fix	Root Carden Sull						
Out			B					B		•			See See	Zez



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 AND HEAVY EQUIPMENT

OCATION CALLUL

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B DRIVER

DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS			,
HOURS	620-530								
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Date: 47 1V	
	Main Clare 175 Turnile Street

125 Jumpake Street Canton, MA 02021

read custom soils sold to: KC+D

H. Kr.

e Division of WILL SLIPS/CLUTON

1-888-475-5526

Job Name: LINCOLI MC+ Sla. 100 - 100 + Oa City/State:

4 Amount Delivered Unit Price Delivery Sub Total Tax Picked Up Description ナンクトナンシュナ Truck: Charles X (1185) COD Roof Garden Soil Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Loam Other Charge Gross: Tare: Net: To the same

Main Office 125 Turnpike Street Canton, MA 02021

Date: 1: -

read custom soils sold to:

Address:_

a Division of WELL SAND/CANTON 1-888-475-5526

Job Name: Littling Coics City/State:

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Amount Unit Price Description Loam Service Roof Garden Soil Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Other

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Total

Received By:

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Delivered

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Charge

1

Iruck 5 + 3-5

Gross:

Tare: Net

Sub Total

Delivery Total

Tax

Received By:

TRUCK# Bunker Sand

(PAG)

AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CRUSHIN LAWISH / Prost
DATE 11-23 20 10

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DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS				
HOURS	i szan	J +0								
YARDS	CoADC	CANTO	Pros		Á					ě
LOADS	M				630		Gross	Tare	NET	
	21									

Date: 11-23-10

Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: Kit D

a Division of Mill SAND/SANTON 1-888-475-5526

City/State:

Address:_

Job Names Little LAC + Billion

PO. # 1006 - CC7

	# O'T		
Qty	Description	Unit Price	Amount
30	Loam Science		
:	Topdressing Sand		
	Bunker Sand		
	Topdressing Mix		
	Root Zone Mix		
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	Roof Garden Soil		
	Other		
Charge	rge COD Picked Up	Delivered	
Truck:	ck: Alm. 1s #4	Sub Total	-
Cross:	88:	Tax	-
Net		Delivery	
1347		Total	

Main Office 125 Turnpike Street Canton, MA 02021

Date: [1 0 5 10

read custom soils sold to Ret D

Address: __ a Division of WILL SAND/CANTON

1-888-475-5526

Job Names (47) Color LACE + Brown City/State:_

	RO. # [OCL-167]		
Qty	Description	Unit Price	Amount
25	Loam 'SK (cense)		,
5			
	Topdressing Sand		
	Bunker Sand		
	Topdressing Mix		
	Root Zone Mix		
	Infield Mix		
	Roof Garden Soil		
	Other		
3	Charge COD Picked Up	Delivered	
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. 5	Gross:	Tax	
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Net:	##	Delivery	

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Received By: -

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Received By:

Total

DATE 11-22 TRUCK#



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CRUMINICATION CANTON PROS

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DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS			1
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YARDS	60405	can bu	Pace						
LOADS	Se Se				630		Gross	Tare	JEN.
	Is								

Date: 11-33-10

Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: RC+D

a Division of WILL SANS/GARTON

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78	J. media
City/State:	ob Name:

	1-888-475-5526 Job Name: 1-17.cole: 1-0.cole:	ですな	ر. در.	··• / 149:	
	RO.# 10065 OCT			de de p erò de la constanta de	- 1
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	Topdressing Mix			राज्यक्त रेट्याक्ट्राट	
	Root Zone Mix			कार्यक्षका कुन्नुकी एउस स	
	Infield Mix			्रम्यकारम् स्टब्स्य	<u> </u>
	Roof Garden Soil				
	Other			o let i de ll'actes e	
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ch Ch	Charge COD Picked Up	Delivered		्रोपे क्रम्ब <u>ाक उ</u> न्ह	·
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Net:	it:	É		· A. sape i	

Main Office	125 Turnpike St	Canton, MA 02	

treet 2021

Date: 11

read custom soils sold to: Kirking

a Division of MIL SIB/CANTON 1-888-475-5526

City/State: __

Job Name: Larie Cole

RO. # 1/4/25 CP 57

Qty	Description	Unit Price	Amount
C C C C C C C C C C C C C C C C C C C	Loam Second		
	Topdressing Sand		
	Bunker Sand		
Ì	Topdressing Mix		
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	Infield Mix		
	Roof Garden Soil		
	Other CAVIDIGITE //		
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Unit Price PO # //W. ACT Description Job Name read custom soils solum

75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 - Fax (508) 336-4275 AND HEAVY EQUIPMENT

LOCATION CALL

DATE 11/27

TRUCK#

DESCRIPTION	GRAVEL	HILL	MPOT	DOZER	LOADER	TRUCKS			33 23 23 23 23 23 23 23 23 23 23 23 23 2
HOURS	MEE - 40 87							10000	
YARDS	25								
LOADS	ay			·			Gross	Tare	NET

Sub Total

Roof Garden Soil

Main Office 125 Turnpike Street Canton, MA 02021

Date: 👍 🍰

read custom soils sold to: Karation

	Amount			ec ye. 150 - 221										
	Unit Price Ar									Delivered	Sub Total	Tax	Delivery	Total
1-880-475-5526 City/State: Job Name: 1.6.6.6.6.7	rion	Loam	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil	Other S. 54 3	Charge COD Picked Up	Truck:	Gross:	Tare:	INCE

Main Office 125 Turnpike Street Canton, MA 02021	Sold to: Late
Care Care	read custom soils

Date: 11 .7 .1 .10.

City/State: 2 Address: a Division of **STILL SARE/PLANTOR** 1-888-475-5526

Sails Topdressing Sand		
1		
Bunker Sand		
Topdressing Mix		
Root Zone Mix		
Infield Mix		
Roof Garden Soil		
Other		
cop /	Picked Up Delivered Sub Total	
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Received By: -

Unit Price Amount PO # Ith Menters

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AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Rax (508) 336-4275

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LOCATION CAN TON / PAOS

DATE 11-22 20 10

PABACS DRIVER

	DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS				
	HOURS	Copin	U 12								,
	YARDS	LOADS	CANTON TO	Prou							
たんとおいたとい	LÓADS	23				630 AL		Gross	Tare	NET.	

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Signed

Date: 11-32 70

read custom soils sold to: R + D Main Office 125 Turnpike Street Canton, MA 02021

a Division of Will SAND/CANTON

Address:_

1-888-475-5526

City/State:...

Job Names Lange of The Sand

RO. # 1006- 007

Qty	Description	Unit Price	Amount
75 Loam	Steenes		
Topdressing Sand	ing Sand		
Bunker Sand	Sand		
Topdressing Mix	sing Mix		
Root Zone Mix	ne Mix		
Infield Mix	Ліх		
Roof Ga	Roof Garden Soil		
Other			
	•		
Charge	COD Picked Up	Delivered	
l 1	PACIFIE T	Sub Total	
Gross:		Tax	
Tare:		Delivery	
INEC		Total	

Main Office 125 Turnpike Street Canton, MA 02021

Date: // 62 //

read custom soils sold to: Act to

Address: a Division of Mall SAUD/GARTON

1-888-475-5526

City/State:

1 Job Name: Lange In

PO. # 1006 - CC7

Qty	Description	Unit Price	Amount
	Loam / Sylvines		
			ļ
gå ^t .	Topdressing Sand		
	Bunker Sand		
	Topdressing Mix		
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	Infield Mix		
	Roof Garden Soil		
	Other CANDIE! T#3		
Š	Charge COD Picked Up	Delivered	
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Tare:	3		
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Received By:

Total

Unit Price Delivery tead custom soils sold or Reto 80.# JAZA 60 Description Roof Garden Soll **Bunker Sand** Infield Mix

BB U C K I N C

AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

OR RECTO

LOCATION CANTAL THE BRUE

TRUCKS 3
CPACE 4

DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS				
HOURS	085.089			•						
YARDS	77									
LOADS	N						Gross	Тате	NET	

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Signed #

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11-32-70

read custom soils sold to: LAD INC.

a Division of BYELL SALES/PENTON 1-888-475-5526

City/State:

Address:_

/ an e Job Name: ATT (US)

TOO -3001 # NOT

		•			-						
Amount											
Unit Price									Delivered Sub Total Tax	- 3	Track.
Description	Loami	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Inffield Mix	Roof Garden Soil	Officer	Charge COD Picked Up Truck: A FF Gross:	Tare: Net:	Received By:
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Main Office 125 Turnpike Street Canton, MA 02021

Date:

read custom soils sold to: Address: __

1-888-475-5526

a Division of WILL SAND/CANTON

Job Name: City/State:

100

|Tinit Price | Amount RO. # 1504. 1507

Amount													
Unit Price									Delivered	Sub Total	Tax	Delivery	Total
Description	Loam	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil	Other A Inv. 147	Charge COD V Picked Up	Truck:	Gross:	5	
Qty	K								C	FE.	<u>5</u>	Tare:	Net

Received By: -

Main Office.
123. Turnpike Street
Cantons WA 02021

Description from the Sold to Land

Sales Andrews

18th Name: Lord Cont. Lord of Elec-

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Ö	Description	Vair Price Amount	Amount
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	One Serious Sand		
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	Rouil Garden Soil		
		Sub Total	
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	· i	Delivery	
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AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

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LOCATION CANTIN PAGE

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	DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS
-	HOURS	Lozan					
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Main Office 125 Turnpike Street Canton, MA 02021

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	Unit Price Amount									Sub Total Tax	Delivery
a Division of Will Saus/Chilton City/State: 1-888-475-5526 Job Name: Leave Common Process: RO. # / Envery Process:	Qty Description	Loam (X !	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Inffeld Mix	Roof Garden Soil	Other	Charge COD Picked Up Truck: A think the thicked Up Gross:	Tare: Net: Received By:

Main Office 125 Turnpike Street Canton, MA 02021

Date:

read custom soils sold to: Sold to:

Address:__ a Division of MELL SAND/BANTON 1-888-475-5526

City/State:_

Job Name:

Qry	Description	Unit Price	Amount
1.0	Loam ; Sg. Con.		
	Topdressing Sand		
	Bunker Sand		
	Topdressing Mix		
	Root Zone Mix		
	Infield Mix		
:	Roof Garden Soil		
	Other Alm. 10#7		
7	Charge COD Picked Up	Delivered	
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Received By:

Manucoffice VSS Tucknike Street Canton, MA 02021 ich gristional soulls souls on K

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AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

LOCATION CANTEN / PAGE

IRUCK# DRIVER

DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS			
HOURS	Cogus	+							
YARDS	COROS	CANGE	prov						
LOADS	M				630 pm		Gross	Tare	NET

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Signed/4/



AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

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PRIVER

DESCRIPTION	GRAVEL	FILL	(LOAM)	DOZER	LOADER	TRUCKS			
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YARDS		6.30	12.00						
LOADS	K	From	6				Gross	Tare	NET

	00							٠. ١		/
DESCRIPTION	GRAVEL	FILL	(LOAM)	DOZER	LOADER	TRUCKS				1
HOURS							4		7	//
YARDS		6.30	12.00							
LOADS	16	Kom	φ,				ross	are	1 3	

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n Office	Thenrike Street
Mai	125 T

Date: 11 1

Canton, MA 02021
Canton, MA 02021
read custom soils sold to:

Address: a Division of Will Sams/BayTon

1-888-475-5526

City/State:

PO. # 3 3 1 (1) 7]

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11-14

4 read custom soils sold to:-

Address:_ a Division of **Unit Sales/Garyton**

1-888-475-5526

City/State:_

Job Name: Later Commercial PO. # 1 > 3

				 	 	 _	_		 	 _	 		_		
Amount															
Unit Price											Delivered	Sub Total	Ţ	-	Denvery
Description	Loam CARCO		Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix		Infield Mix	Roof Garden Soil	Other	Charge COD Picked Up	4.76	Gross:	:aı	
Qty		2 . 71:							İ		Ch	E.	Ğ	Tare:	Net:

Received By: -

Received By: でのの意識

Total

11-11	
Date:	
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Office	Terement Po

Main Office 125 Turnpike Street Canton, MA 02021

(Carrier

read custom soils sold to:-

a Division of MRIL SAME/CANTEN

1-888-475-5526

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		4.16 (36.7)
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	ള	Job Name: -
Address	City/State:_	, Tag
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EO. # 150(") Oa

Amount Delivered Unit Price Total Tax Sub Total Delivery Picked Up Description CARLERIA Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Other Loam Charge Truck: Gross: Tare: Net: Q_{ty}

Carrie

Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: 10 1 + 12

Address:

a Division of Will SAME/RAINTON 1-888-475-5526

City/State:

2 1 to \$ 7 . . . Job Name:

Amount Delivered Unit Price Tax Sub Total Picked Up RO. # 133 (- 337 Description COD Roof Garden Soil Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix Loam / Other Truck: V Charge Gross: Tare: 2. 有 M (B) Q

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THE YEAR

Received By: -

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Net:

Received By:

Total Delivery

Date:

Date: //-/

Main Office 125 Turnpike Street Canton, MA 02021 read custom soils sold to:

Address: a Division of WELL SAND/GALTON

1-888-475-5526

City/State:_

Job Name: ______

	Amount												i		
	Unit Price									·	Delivered	Sub Total	Tax	Delivery	Total
RO.# 1262.302	Description	Loam Conference	Topdressing Sand	Bunker Sand	Topdressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil	Other		Charge COD Ficked Up		988:	33	
	Qty	10 M	A								<u>7</u>	昌	Gross:	Net:	

Date: I (I /

Main Office 125 Turnpike Street Canton, MA 02021

(+) read custom soils ^{Sold to:}

Address:__ a Division of Mall Sand/Course 1-888-475-5526

City/State:

PO.# 1001 - 307

Job Name: (112 (> 4 1)

ζ Ż	Description	Unit Price	Amount
	Loam !		
7-4			
	Topdressing Sand		
	Bunker Sand		
	Topdressing Mix	•	
·	Root Zone Mix		
	Infield Mix		
	Roof Garden Soil		
	Other		
CP	Charge COD Picked Up	Delivered	
Tru	Trucke y a 10	Sub Total	
Gross:	1883	Ę	
Tare:	: =	X X	
Net:		Delivery	

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Received By: Has Lelle

Total

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Received By: _ なののない



CONVA
AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 76 (508) 336-4275 • Fax (508) 336-4275

REGAOL			MA 15.7
DOZER			
MAOJ		Gron.	
FILL	Q.	CANTON	
GRAVEL	way	20407	8
DESCRIPTION	RAUOH	E GRAY	LOADS
5//0	DRIVER	817	16 (д) 19 (д)
	191	- so 	DATE
<u> </u>	cold	178774	LOCATION
		CINOS	FOR

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TRUCKS

5228

TBN **Fare** Gross

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TRUCKS			
LOADER			果
DOZER			
MAOJ	;	05.5	0)
FILL		05:0	C 60m
GRAVEL			Ç
DESCRIPTION	SAUOH	EGRAY	EGAOJ

Tel (508) 336-4272 • Fax (508) 336-4275 75 Providence Street, Rehoboth, MA 02769 AND HEAVY EQUIPMENT

[LSO

NEL

TRUCK#

9	Date: 11 - 10-10	
	Main Office	125 Turnpike Street

1

Canton, MA 02021

INC read custom soils sold to: RC+D

Address:_

a Division of MILL SALE / CARTON

1-888-475-5526

PROVIDENCE Job Name: LINCOLN City/State:

PO.# 1006:007

rice Amount	14	- 25								ered	TEI	Tax	A
on Unit Price	2		***************************************		and the second		*	, a 45		Picked Up Delivered	S		Delivery
Description	Loam 2 STAGE	Topdressing Sand	. 1	Bunker Sand	Dordressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil	Other	Charge COD	Trucki OUNT PLANT	Gross:	i n
Qty	25 ch					2				Z _B	昌	Gross	Net

Main Office 1 125 Turnpike Street Canton, MA 02021

Date: 11-16-10

read custom soils Sold to: RetD

a Division of Will SAND/CANTON 1-888-475-5526

Address:
City/State: 2001/00/CE Job Name: Land Court

12

PO - 100 - 100

Amount Unit Price Delivered Tax Delivery Total Sub Total COD Picked Up A TO WITO 117 Description Topdressing Sand Roof Garden Soil Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix OUN Loam Other Truck: Charge Gross: Tare: Net: H Q

30000

Received By:

3869B

Received By: -

75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 AND HEAVY EQUIPMENT

TRUCKING)

CREVIE

DCATION CANTON - PACU

₹/02 NTE 11-16

在 20 ALMISTORY. TRUCK#

DRIVER

SIEVE

pe					4.	· .			
	DESCRIPTION	GRAVEL	FILL	LOAM	DOZER	LOADER	TRUCKS		
	HOURS	CAM	47		7 <u>4</u>				
	YARDS	COAOS	CAR Ga-	Pary.			Control of the Contro		
	LOADS	-(PG)	٧,		42 2 2	133 Acu	TON BUILD	Gross	

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11- [6-10

read custom soils Sold to Pro

a Division of Mall Sales/Charton 1-888-475-5526

人 City State: PROVIDENCE

アるろ

Job Name: Lat N COLN PO# 1006 - 607

Amount Unit Price Delivered Delivery Tax Sub Total Preked Up D Description Loam # Stuffer Roof Garden Soil Topdressing Sand 000 Topdressing Mix Root Zone Mix **Bunker Sand** Truck: OCM Infield Mix Other Charge Gross: Tare: Net: Q

2559

Received By: -

Total

Date: 11-16-16	
Main Office 125 Turnpike Street Canton, MA 02021	
	3

120+0 Inc read custom soils ^{Sold to:}

1-888-475-5526

a Division of WILL SARD/CANTON

Address:

PLACE LINEUR Job Name: City/State:

COO - 9001 +* Da

	:	Loam / "		Topdressi	,	Bunker S	Topdressi	Root Zon	Infield M	Roof Gar		Other		Charge	Truck: //2	Gross:	ie:	it	<u> </u>	
00	Ory	174	COXC P	· ·			St.						:	បី	Ę	5	Tare:	Net	N 2002	
	Pa,i		· · · · · · · · · · · · · · · · · · ·	म्बर्ग्ड स्टब्स्ड स				777 V. S.			Carrie Section	- (* · · · ·	-	Gran	स्टेन्स्स्टर्नेस्पृत		······································			-
1	Amount	5 6 -										_								
2	Unit Price						is made							Delivered	Sub Total	Tax		Culvery	Total	
BO: #+ 1006 - 007	Description	Loam (" Sencerul	e.	Topdressing Sand		Bunker Sand	Topdressing Mix	Root Zone Mix	Infield Mix	Roof Garden Soil		Other		Charge COD Picked Up	Truck: OWN ALMONIA 7	Gross:	ü		Received By:	
	Qty	25.1	2		. 1.		174. 18							7	H	<u> হ</u>	Tare:	Net:	(3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11-16-10

read custom soils sold to: R C+D

Address

a Division of Will SampleMiner 1-888-475-5526

City/State:

Job Name: FING OLA PLACE

PO- 4001 - 4.00

© Qty	Description	Unit Price	Amount
	Loam Sertetive		,
25%	, s.		
,	Topdressing Sand		
	Bunker Sand		\ ·
	Topdressing Mix	(40 mg/	

	Root Zone Mix		
	Infield Mix		
	Roof Garden Soil		
		,	
	Other		
:			
Clr	Charge COD Picked Up	Delivered	
Tro	Trucks / /2 /2 / / / / / / / / / / / / / / /	Sub Total	
Š	Gross:	Ę	
Tare:	ie:	:	
Net:	la l	Delivery	
		Total	

Received By: -



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 AND HEAVY EQUIPMENT

CHONIS

SCATION CANTAN - PAL K

20 10 NTE 11-100

TREAK DRIVER H MEIDIA #

	<u> </u>									
	DESCRIPTION	GRAVEL	FILL		DÖZER	LOADER	TRUCKS			
	HOURS	COAM	1/2							
	YARDS	(copos	CANTON	Pres.				3		
355	LOADS	340				530 MA	Man Cant	Gross	Tare	NET

2558

Main Office 125 Turupike Street Canton, MA 02021

Date: 11-16-10

read custom soils sold to: RC+D

Address: a Division of WILL SAND/CANTON

City/State: 1-888-475-5526

Job Name: LINCOLN P. ACE

Amount Delivered Unit Price Tax Delivery Sub Total -COO - 9007 - 100 - 100 - 100 X Picked Up The Property A Description 1" SCREENED Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** Truck: Own Infield Mix Other Loam Charge Gross: Tare: Net: Oto

30000

Total

Date: 11-16-10		
Main Office	125 Turnpike Street	COLUMN MA CONT
Q		
	6	184

Canton, MA U2U21

read custom soils sold to: Re+D

a Division of WELL SAND/CANTEN 1-888-475-5526

Job Name: LINCOLN PLACE Address: City/State: P200102 NCE

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11 -1 12 154

read custom soils sold to: 12 C + 12

Address:

a Division of WRIL SAND/CANTON

1-888-475-5526

CityState: TROUIDENE Job Name: LISCALAL

Unit Price | Amount FOO-900 # 100 # ... Description

Qty	*	Unit Price	Amount
25%	Loam / Scientary		*
	Topdressing Sand		25.2
	Bunker Sand		dy
	Topdressing Wix		
	Root Zone Mix		
	Infield Mix		
	Roof Garden Soil		
	Other		,
	, and	**/*	, and
<u>ද</u>	Charge COD Picked Up	Delivered	
FI &	Truck: Ogg/ R+B 13 Gross:	Sub Total	
Tare:	, Les	Delivery	
Net:			
3000 3000 3000	8 Received By: Jack Will		

Total

Received By: A sack Will

38687

Net

Delivery



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275 AND HEAVY EQUIPMENT

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FOR

LOCATION CANTON - PROC

20/0 DATE //-/

DRIVER	JWe
	2
TRUCKS	8+8#

GRAVEL LOADER TRUCKS DOZER DESCRIPTION LOAM FILL 15.A.W HOURS P CAnton YARDS 300 630 A LOADS 35 1 Gross Tare RET

2557

Main Office 125 Turnpike Street Canton, MA 02021

Date: 11 - 160-10

read custom soils sold to: 12 C+D LINC

a Division of MISL SAND/PARTON

Address 1-888-475-5526

City State: Providence 12

Job Name: Let Cist L

C00-900/ #0a

Oty	Description	Unit Price	Amount
	I com / " Shall had		de de la companya de
ング	1		***
200	Tondressing Sand		likera ik
, ,	AUDIN COSINE DOMA		ya 1a%
	Bunkar Sand		
	Dulay Daile		(Art)
	Tonditectino (VIX	1	1
· ·			ing in
,;	Roof Zone Mix		
	Infield Mix		.
<u>. ·</u>			
	Roof Garden Soil		
	Other	,	
	AND THE PROPERTY OF THE PROPER		¹ / ₂₀₀ -
S	Charine COD Picked Up	Delivered	
E .	Truck The Cart of 12	Sub Total	
5	Gross:	Tax	,
Tai	Tare:	<u>.</u>	<u> </u>

38686

Net

Received By: -

Total

Delivery

Amount Date: 11-16-10 RI Unit Price Delivered ENCE RACE Tax Delivery Sub Total (編) Providence 1006-007 Picked Up read custom soils sold to: PC+D Main Office 125 Turnpike Street Canton, MA §2021 :\$17 -18 Description Job Name:_ City/State:__ Loam / Scrience PO. # Topdressing Sand Roof Garden Soil COD Topdressing Mix Root Zone Mix **Bunker Sand** a Division of REAL SALENCEMENT Infield Mix 1-888-475-5526 Truck: Our Other Charge Gross: Tare: Net Qty

Amount Date: 11-16-10 Delivered Unit Price H P. MCE à l 100 City/State: Phodiocolic E BNC VER 100-9001 Picked Up read custom soils sold to: 12 C + D Main Office 125 Turnpikë Street Canton, MA 02021 Description Loam | " Senterol Job Name:_ BAR P.O. # COD **Topdressing Sand** Roof Garden Soil Topdressing Mix Root Zone Mix **Bunker Sand** a Division of WRLL SANS/SANTON Truck: Ou 1 Infield Mix 1-868-475-5526 Other Charge Qty

While Total

Received By:

38685

Total

Received By:

2000 2000 2000

Delivery

Lax

Gross:

Tare: Net:

Sub Total

Date: 11-16-10 Main Office 125 Turnpike Street Canton, MA 02021

read custom soils sold to: RC+ DIN

a Division of MILL SARW/CANTON

Ø Job Name: NWCOLN PLACE Powdence City/State:

Topdressing Sand Bunker Sand Aopdressing Mix Root Zone Mix		
Topdressing Sand Bunker Sand Topdressing Mix Root Zone Mix		
Bimker Sand Topdressing Mix Root Zone Mix		
Bunker Sand Topdressing Mix Root Zone Mix		
Tondressing Mix Roet Zone Mix		
Tondressing Mix Root Zone Mix		
Root Zone Mix		
Root Zone Mix	*	
AVOL. PORCE AND		
Infield Mix		
ALLANDA CARANA		
Roof Carden Soil		
		•
Nation 1		
Office		
COD Character Code Up	Delivered	
	Sub Total	
Gross:	Tax	
Tare:	Delivory	



75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 - Fax (508) 336-4275 AND HEAVY EQUIPMEN

C COW MIN

LOCATION CPANTON TO PROV

C/102 11-16 DATE_

TRUCK

4	DESCRIPTION	GRAVEL		ATOMINE.	DOZER	LOADER	TRUCKS		e de la companya de l
	HOURS		100						
-	YARDS		6.30	3.36					
	LOADS	6	100y	0				Gross	NET TEN

0568

Received By:

28683

Lincoln Lace & Braid 55 Ponagansett Ave. Providence, RI

Compost

Load Date	Truck	Agresource Ticket No.	Load Volume	No. of Loads	Hours	Cummulative Total
11/18/2010	B&B 13	21669-21671	25.00	3.00	4.50	75.00
11/18/2010				3.00	4.50	75.00
11/22/2010	B&B 24	21672-21677	25.00	8.00	8.50	200.00
11/22/2010				8.00	8.50	275.00
11/23/2010	B&B 24	21678-21682	25.00	5.00	6.50	125.00
11/23/2010				5.00	6.50	400.00
11/24/2010	B&B 5	21683	25.00	1.00	1.00	425.00
11/24/2010	Steve's Xpress	21684	25.00	1.00	1.00	450.00
11/24/2010				2.00	2.00	450.00
12/1/2010			27.00	1.00	1.00	477.00
12/1/2010			35.00	2.00	2.00	547.00
12/1/2010				3.00	3.00	547.00
12/6/2010			27.00	3.00	4.00	628.00
12/6/2010				3.00	4.00	628.00
						628.00
						628.00
			:			628.00
						628.00
				24.00	28 50	628.00

Load Date	Truck Number	Read Custom Soils Ticket No.	Load Volume (CY)	Hours	Cummulative Total (CY)
12/7/2010	JK Angus Inc	37771	25.00		2,193.00
12/7/2010			168.00		2,193.00
					2,193.00
					2,193.00
					2,193.00
	†				2,193.00
			2193.00	225.50	2,193.00

Load Date	Truck Number	Read Custom Soils Ticket No.	Load Volume (CY)	Hours	Cummulative Total (CY)
11/23/2010	B&B 13	37699	25.00		1,075.00
11/23/2010	B&B 13	37709	25.00	9.50	1,100.00
11/23/2010	B&B 13	37710	25.00	†	1,125.00
11/23/2010	Candigit 11	37697	25.00	1	1,150.00
11/23/2010	Candigit 11	37707	25.00	9.00	1,175.00
11/23/2010	Candigit 11	37708	25.00	1	1,200.00
11/23/2010	Candigit 3	37698	25.00		1,225.00
11/23/2010	Candigit 3	37705	25.00	9.00	1,250.00
11/23/2010	Candigit 3	37706	25.00		1,275.00
11/23/2010	Steves Xpress	37674	25.00		1,300.00
11/23/2010	Steves Xpress	37702	25.00	9.50	1,325.00
11/23/2010	Steves Xpress	37715	25.00		1,350.00
11/23/2010	Almeida 4	37704	25.00		1,375.00
11/23/2010	Almeida 4	38714	25.00	9.50	1,400.00
11/23/2010	Almeida 4	38715	25.00		1,425.00
11/23/2010			550.00	67.00	1,425.00
11/24/2010	B&B 5	38716	25.00		1,450.00
11/24/2010	B&B 5	38719	25.00	6.00	1,475.00
11/24/2010	Steves Xpress	38717	25.00		1,500.00
11/24/2010	Steves Xpress	38718	25.00	6.00	1,525.00
11/24/2010			100.00	12.00	1,525.00
12/2/2010	Lindquist	38248	25.00	8.00	1,550.00
12/2/2010	Bianton	38253	25.00		1,575.00
12/2/2010	Lindquist	38263	25.00		1,600.00
12/2/2010	JK Angus Inc	38194	25.00		1,625.00
12/2/2010	JK Angus Inc	38195	25.00		1,650.00
12/2/2010	JK Angus Inc	38196	25.00	9.00	1,675.00
12/2/2010	JK Angus Inc	38197	25.00		1,700.00
12/2/2010	JK Angus Inc	38198	25.00		1,725.00
12/2/2010	Blanton	38762	25.00	8.00	1,750.00
12/2/2010	Lindquist	38264	25.00		1,775.00
12/2/2010	Blanton	38763	25.00		1,800.00
12/2/2010			275.00	25.00	1,800.00
12/3/2010			25.00	2.00	1,825.00
12/3/2010			25.00		1,825.00
12/6/2010	Lindquist	37661	25.00	T	1,850.00
12/6/2010	Lindquist	37662	25.00	6.00	1,875.00
12/6/2010	Lindquist	37663	25.00		1,900.00
12/6/2010	Blanton	38212	25.00	1	1,925.00
12/6/2010	Bianton	38766	25.00	6.00	1,950.00
12/6/2010	Blanton	38767	25.00	1	1,975.00
12/6/2010	JK Angus Inc	38564	25.00	5.00	2,000.00
12/6/2010	JK Angus Inc	38192	25.00		2,025.00
12/6/2010			200.00	17.00	2,025.00
12/7/2010	JK Angus Inc	38191	25.00	1	2,050.00
12/7/2010	Blanton	38213	25.00	<u> </u>	2,075.00
12/7/2010	JK Angus Inc	38190	25.00		2,100.00
12/7/2010	Lindquist	37665	25.00	1	2,125.00
12/7/2010	Blanton	38214	25.00	<u> </u>	2,150.00
12/7/2010	Tobin	38528	18.00	 	2,168.00

Lincoln Lace & Braid

55 Ponagansett Ave. Providence, RI

<u>Loam</u>

Load Date	Truck Number	Read Custom Soils Ticket No.	Load Volume (CY)	Hours	Cummulative Total (CY)
11/16/2010	B&B 5	38683	25.00		25.00
11/16/2010	B&B 5	38684	25.00	9.00	50.00
11/16/2010	B&B 5	38685	25.00		75.00
11/16/2010	B&B 13	38686	25.00		100.00
11/16/2010	B&B 13	38687	25.00	9.50	125.00
11/16/2010	B&B 13	38688	25.00		150.00
11/16/2010	Almeida 7	38680	25.00		175.00
11/16/2010	Almeida 7	38681	25.00	8.50	200.00
11/16/2010	Almeida 7	38682	25.00		225.00
11/16/2010	Almeida 9	38689	25.00		250.00
11/16/2010	Almeida 9	38690	25.00	8.50	275.00
11/16/2010	Almeida 9	38691	25.00		300.00
11/16/2010			300.00	35.50	300.00
11/19/2010	B&B 5	38693	25.00		325.00
11/19/2010	B&B 5	38695	25.00	9.00	350.00
11/19/2010	B&B 5	38697	25.00		375.00
11/19/2010	B&B 13	38692	25.00		400.00
11/19/2010	B&B 13	38694	25.00	8.50	425.00
11/19/2010	B&B 13	38696	25.00		450.00
11/19/2010			150.00	17.50	450.00
11/22/2010	Candigit 11	37696	25.00		475.00
11/22/2010	Candigit 11	38703	25.00	9.00	500.00
11/22/2010	Candigit 11	38708	25.00		525.00
11/22/2010	B&B 13	38700	25.00		550.00
11/22/2010	B&B 13	38706	25.00	9.00	575.00
11/22/2010	B&B 13	38712	25.00		600.00
11/22/2010	Candigit 3	37694	25.00		625.00
11/22/2010	Candigit 3	38704	25.00	9.00	650.00
11/22/2010	Candigit 3	38709	25.00		675.00
11/22/2010	Almeida 7	37693	25.00		700.00
11/22/2010	Almeida 7	38705	25.00	9.00	725.00
11/22/2010	Almeida 7	38710	25.00		750.00
11/22/2010	Almeida 9	38699	25.00		775.00
11/22/2010	Almeida 9	38701	25.00	9.00	800.00
11/22/2010	Almeida 9	38711	25.00		825.00
11/22/2010	B&B 5	38702	25.00	5.50	850.00
11/22/2010	B&B 5	38707	25.00		875.00
11/22/2010			425.00	50.50	875.00
11/23/2010	B&B 24	37700	25.00	2.00	900.00
11/23/2010	Almeida 7	37675	25.00	ļ	925.00
11/23/2010	Almeida 7	37676	25.00	9.50	950.00
11/23/2010	Almeida 7	37703	25.00		975.00
11/23/2010	B&B 5	37701	25.00		1,000.00
11/23/2010	B&B 5	37713	25.00	9.00	1,025.00
11/23/2010	B&B 5	37714	25.00		1,050.00

MATERIAL DELIVERY SLIPS – LOAM & COMPOST

		::::::::::::::::::::::::::::::::::::	115		
;	U	0	880-3		
) 	Z	10278	Fax (508) 880-3115		
<i>f</i>		on M		· 2	
	TREE	Taiint	-2479	I IS Y	
	Ć	į	00-56	NA III	
4.00			1		f,
		AO NE	128V V		,
			00.400	70.700	•
			Ų	2	
- 1	-	ESK.			

DATE 12-6-LOT# DELIVEREDAT PROVIDENCE PICK UP AT: TENERAL SQLD TO: R C

TIME OUT TRUCK NO. 124 (T) TA TW DRIVER.

RENTAL TIME IN:

P. O. #.

1 1 2 2 2 2 2 2	2000			//. Loam
	Serven		1	1º Loam
				9" Loam
	Common Fill			
	Structural, Fill		4.	Weich/ Composit
Ô	7211 100	C		Clay
	Bank Gravel	1		
er .	3"Screened Gravel			Other
	% Process Gravel			
	a/." Blue Stone	. :		Service Control of the Control of th
. / / .	Blue Stone Dust			
		(-	

Received by X

By signing this ticket, Like
for damage to property w

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780

TRUCK SLIP

BOL	JOB # 16937	69		DATE 12-3-10	
DELL	D AT:	50m	5577	PRUAGANDETT ANCIOT#	
PCX	PICK UP AT:	FRO FOLUBOR	47.5	30 E	
TRU	TRUCK NO.: 202 TD	TD TA TW DRIVER:	E E	VER: 179.05	
REN	TIME IN:			TIME OUT:	
Yds.	Material	# Lds.	Yds.	Material # L	# Lds.
	Sep. Sand			%" Loam	
	Screen Sand	,		1" Loam	
		,		3" Loam	
	Common Fill				
	Structural Fill			Mulch / Compost	
				Clay	1
	Bank Gravel				1
-	3" Screened Gravel		(Other	
	3/7 Process Gravel		38	- MINES	\sim
)		
	3/4" Blue Stone				
	Blue Stone Dust				
		6			

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 73575 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 TRUCK SLIP

PICK UP AT: LEGAR ALL LAST TRUCK NO.: LAST ATD TA TW DRIT RENTAL: TIME IN: P. O. #: Screen Sand Scre	•
FRUCK NO.: / / TD TA TW SENTAL: TIME IN: 5. O. #: Sep. Sand Screen Sand Screen Sa	Mee
Yds. Material # Lds. Sep. Sand Screen Sand Common Fill Structural Fill Structural Fill Structural Fill 3" Screened Gravel 3" Screened Gravel	DRIVER: Land (MT
Sep. Sand Sep. Sand Screen Sand Common Fill Structural Fill St	
Screen Sand Screen Sand Common Fill Structural Fill Structural Fill 37 Screened Gravel 37 Screened Gravel 37 Process Gravel	Material # Lds.
Screen Sand Common Fill Structural Fill A SALDY FILL Bank Gravel 3" Screened Gravel 9/," Process Gravel	3/" Loam
Structural Fill Structural Fill Structural Fill 37 Screened Gravel 37 Screened Gravel 37 Process Gravel	1" Loam
Structural Fill Structural Fill Structural Fill Structural Fill 37 Screened Gravel 37 Screened Gravel 37 Process Gravel	3" Loam
Structural Fill Structural Fill Bank Gravel 3" Screened Gravel 9/," Process Gravel	
Bank Gravel 3" Screened Gravel 3" Process Gravel	Mulch / Compost
Bank Gravel 3" Screened Gravel 3/1" Process Gravel	Clay
3" Screened Gravel	
% Process Gravel	Other
3/2" Blue Stone	
Blue Stone Dust	
Modroed Hoch	

62790 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 (508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

TIME OUT:

RENTAL: 1 TIME IN:

TO TA TW DRIVER:

190

TRUCK NO.:

P. O. #	#				:
Yds.	Material	# Lds.	Yds.	Material	# Lds.
	Sep. Sand		-	3/," Loam	
	Screen Sand			1" Loam	
				3" Loam	
37	Common Fill S,A ADY	W			
5	Structural Fill			Mulch / Compost	
				Clay	
	Bank Gravel				
	3" Screened Gravel			Other	
	3/," Process Gravel			13 4R WAIT	
				ZIMIZ.	
	³/," Blue Stone				
	Blue Stone Dust		,		
			7		

By signing this ticket, I agree with the above quaritity (yardage/tonnage). We assume no responsibility for damage to property when delivery is made inside curbing. Received by X.

Received by X

Received by X

By signing this ticket, I agree with the above quantity (yardage/honrage). We assume no responsibility for damage to property when delivery is made inside curbing.

64632 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

JOB #	16937			DATE 12/3/1	9
DELIV	DELIVERED AT: 1/2/1/			LOT#	
PICK	PICK UP AT:	177	1111	CAIRCE	
TRUC	TRUCK NO: / Z/ TD	TD TA TW DRIVER:	PR	IER: WHITE	
P. O. #:	RENTAL: O TIME IN: 8.30	CH 4	TIM CANADA	TIME GUT, JO HIC	
Yds	Material	# Lds.	Yds.	Material # L	# Lds.
	Sep. Sand			3/* Loam	
	Screen Sand			1" Loam	
				3" Loam	
	Common Fill				
	Structural Fill			Mulch / Compost	
				Clay	
	Bank Gravel				1
	3" Screened Gravel		78	Other ALICH	7
	% Process Gravel	4)	
	3/," Blue Stone				
	Blue Stone Dust				
1	*		1		

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 TRUCK SLIP

# 90F	JOB# 16937	0	€	DATE 12-2-16		
DELIVERE	D AT:	2000	525		1 1	
PICK	PICK UP AT:	100	3	F90 Folmpat		
TRUC	TRUCK NO.: 752 (D	TO TA TW DRIVER:	DRIV	ER: MASS	· · · ·	
RENT	RENTAL: TIME IN:			TIME OUT:	<u> </u>	
P.O.	#					
Yds.	Material	# Lds.	Yds.	Material # Lds.	<u>ø</u>	
	Sep. Sand			³/," Loam		
ļ	Screen Sand			1" Loam		··· ——
				3" Loam		
	Common Fill				· 	
,	Structural Fill			Mulch / Compost		
				Clay	1	
	Bank Gravel					
	3" Screened Gravel			Other	1	
	3/,* Process Gravel		18	Sach Fig (3		
			\)		

Received by X

By signing this ticket, I agree with the above quantity (yardage/lontage). We assume no responsibility for damage to property when delivery is made-wiside curbing.

Blue Stone Dust

3/4" Blue Stone

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 TRUCK SLIP DATE 13 3 10 LOT# フロロング リゴー ンサ MOUIDENCE 4 アペニマのドア JOB# 1693 DELIVERED AT: PICK UP AT: SOLD TO: _

TIME OUT: FD/TA TW DRIVER: TRUCK NO(8/8-14/9 RENTAL: [] TIME IN:

P.O.#:

Yds.	Material	# Lds. Yds.	Yds.	Material	# Lds.
	Sep. Sand			3/" Loam	
	Screen Sand			1" Loam	
OF OX	SAHOYFII	3		3" Loarn	
5	Common Fill				
	Structural Fill			Mulch / Compost	
	メメメ			Clay	
.,	Bank Gravel				
	3" Screened Gravel			Other	
	1/2 Process Gravel				
	3/" Blue Stone				
	Blue Stone Dust				

Received by X.

By signing this ticket, I agree with the above quantity (yardage/tonnage). We assume no responsibility for damage to property when delivery is made inside curtaing.

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 62789 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780

The state of the s

# HOL	JOB# 1693↑ SOLD TO: RC 4 D			
DELIV	DELIVERED AT: PONACABLEE PROV RI	A Z Z	1	LOT#
PICK	PICK UP AT: FE 12	FURNACE	1	of the state of th
TRUC	TRUCK NO.: 190 TO TA TW DRIVER:	TA TW	DRIV	IER: RICK
RENT	RENTAL: TIME IN:			TIME OUT:
7. 0.			: -	
Yds.	Material	# Lds.	Yds.	Material # Lds.
	Sep. Sand			3/² Loam
	Screen Sand			1" Loam
				3* Loam
00	Common Fill SALDY	3		
	Structural Fill			Mulch / Compost
			-	Clay
1	Bank Gravel			
	3" Screened Gravel			Other
	3/," Process Gravel			
	³/," Blue Stone			
	Blue Stone Dust	(and the same of th
			×	

Received by X

By signing this ticker, I agrief with the above qualithy (yardege/formage). We assume no responsibility for damage to property when delivery is made inside curbing.

assume no responsibility

Received by X

By signing this ticket, I agree with the above quantity (yardation damage to property when delivery is matte-baside curbing.

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 TRUCK SLIP

12.3 DATE LOT # DELIVERED AT: 2000 10 FARCE 16934 SOLD TO: JOB #

FURNAPE Frace PICK UP AT:

TIME OUT: (TD)TA TW DRIVER: TRUCK NO.:

RENTAL:

TIME IN: P.O. #

Yds.	Material	# Lds. Yds.	Yds.	Material	# Lds.
	Sep. Sand			%" Loam	
	Screen Sand			1" Loam	
				3" Loam	
	Common Fill				
	Structural Fill			Mulch / Compost	
3	SAMON FILL	m		Clay	
	Bank Gravel				
	3" Screened Gravel			Other	
	3/2 Process Gravel				,
	3/1" Blue Stone				
	Blue Stone Dust				
	action to		مَنْ مُنْ مُنْ		

490 Wintinop Street, Taunton, MA 02780 (508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC.

TRUCK SLIP

# BOC	16937			DATE 12-1-10
DELN	DAT: POOV!	0000	5.36	
PS S	PICK UP AT: FOR 200	200	FURNACE	6.
J gr	TELICK NO. 194 (TD) TA TW DRIVER:	MT AT	DRG	FR. Jus (17)
RENT	=			' 0
P. O. #:	#			
Yds.	Material	# Lds.	Yds.	Material # Lds.
	Sep. Sand			3/2" Loam
	Screen Sand			1" Loam
				3" Loam
	Common Fill			
	Structural Fill			Mulch / Compost
2	SANDY FILL	7		Clay
	Bank Gravel			
	3" Screened Gravel			Other
],	3/," Process Gravel			
	3/4" Blue Stone			
	Blue Stone Dust			
\ \ \				
1		2		X

ed by X

this toket, I agree with the above quantity (vardant)

Property when delivery is medicinate curbing.

(Qe). We assume no responsibility

Received by X

By signing this ticket A agree with the above quantity (yards for damage to property when delivery is made inside curbing.

62965 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 (508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

JOB	(5637) # 80r			DATE JOHNIO	0
SOL	SOLD TO: RC & DAY OF THE RES	11.00	4		
	VEREU AII KOLENGIA		2007	*	
PICK	PICK UP AT: FETDERAL		FURNACE	CE	
	,				:
TRUC	TRUCK NO.: 201 (TD)	TD TA TW DRIVER:	E DE	VER: MBRAGA	
RENTAL P. O. #:	RENTAL: TIME IN:			TIME OUT:	×
Yds.	Material	# Lds.	Yds.	Material	# Lds.
	Sep. Sand			³/² Loam	
	Screen Sand			1" Loam	
				3" Loam	
Ho	Common Fill SAUDY	3			
	Structural Fill			Mulch / Compost	
				Clay	
	Bank Gravel				
	3" Screened Gravel			Other	
	3/7 Process Gravel	:		1/1	
	3/,* Blue Stone				
	Blue Stone Dust				
	0	7			
 - 					

			-
MA 02780	508) 880-3115		**
nton, MA 02	79 • Fax (50	H	
m Street Taunton, N	800-562-247	TRUCKSI	
	4874 • 1		
700	(508) 874 V	(ממר)	

	DATE 11119/10	LOT#	FOSINI P.Y	nacione locales full	(TD) TA TW DRIVER:	TIME OUT		# Ida Vds Material	3/.*.1 00		"L'inaim	VAKOTA ST. Loam		Mulch / Compost	Clay		3" Screened Gravel	ay. Process Grave					
--	---------------	------	------------	----------------------	--------------------	----------	--	--------------------	-----------	--	----------	-----------------	--	-----------------	------	--	--------------------	-------------------	--	--	--	--	--

Received by A. States, 1 agree with the above quantity (vardege formage). We assume no responsibility by signing this ticket, 1 agree with the above quantity (vardege formage). We assume no responsibility for damage to property when defivery is made inside curbing:

e). We assume no responsibility

(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 G. LOPES CONSTRUCTION, INC. 490 Winthrop Street, Taunton, MA 02780 TRUCK-SEEP

DATE 12-1-10		
DATE	LOT#	
JOB# /6 937	DELIVERED AT PANA 1 CONSTITUTE	PICK UP AT: FED FWI

TIME OUT: (FD/TA TW DRIVER: THUCK NO. JO'S RENTAL: TIME IN: P. O. #.

× Ac	* Material	# Lds. Yds.	Yds	Material	# Lds.
				* Loam	
1 1 1	Screen Sand			1" Loam	
			11.1	3" Loam	
	Common Fill.			:	
	Structural Fill			Mulch / Compost	
7	(C E. 1)	3		Clay	
	1				*** ***
	3" Screened Gravel			Other	
	1/2 Process Grave				
	3/" Blue Stone				
	Blue Stone Dust				
160			\ 		



	in Toplacine
LOCATION TOB A	DUNGAMENT RO
TRUCK#	DAUL

	1		
LOADS	YARDS	HOURS	DESCRIPTION
3	ac yels A	LOAD	GRAVEL
	De yels A I	+ CArrer	FILL
			LOAŅ
7:00	STArt		DOZER
3,00	Fraisk		LOADER
8	Total 1	burs	TRUCKS
Gross			
Tare		·	
NET		-7	
239	Sig	ned King	Ma

2392



FOR	Chemin.	·	
LOCATION 4	ARVER,	lonol.	
DATE _//-/	920.	11)	
TRUCK#		DRIVER	
Almedia	47	FRA	ı K
LOADS	YARDS	HOURS	DESCRIPTION
3	LOAPS S	Andy Lill	GRAVEL
	CANJOR	Andy fill	FILL
	Prou		LOAM
			DOZER
700 AU			LOADER
700 AV1			TRUCKS
Gross			
Tare			
NĘT		1	1
	ei	Ined Aller	(July)
25	70		



GRONIN

TRUCK#		DRIVER	
meidin	H.9.	Je	(E)
LOADS	YARDS	HOURS	DESCRIPTION
33	Cop 65 5	Fredy C:11	GRAVEL
	CARVS	•	FILL
	Pris.	·	LOAM
			DOZER
TODAV			LOADER
700 AU			TRUCKS
Gross			3
Tare .			



RUCK#		DRIVER	
andi	14	De	earl
LOADS	YARDS	HOURS	DESCRIPTION
3	25	708-330	GRAVE
			FILL
			LOAM
·			DOZER
			LOADE
			TRUCK
C			
Gross			



FOR RC+12

RUCK# / 7	gha"	DRIVER	ny
LOADS	YARDS	HOURS	DESCRIPTION
3	23	79.336	GRAVEL
		,	FILL
·····			LOAM
			DOZER
			LOADER
		٠.	TRUCKS
iross .			
lET			



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CLA	
LOCATION FILL RET	
DATE	Ex.
TRUCK#	DRIVER
Carper	C/C/R

LOADS	YARDS	HOURS	DESCRIPTION
3	28-	200	GRAVEL
			FILL
			LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NET			1

0462

Signed Top (

G. LOPES CONSTRUCTION, INC.
490 Winthrop Street, Taunton, MA 02780
(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115
TRUCK SLIP

JOB #	TO:	<u> </u>		DATE 11/1	\$110
SOLD	TO: RC-	0		<u> </u>	<u> </u>
DELIV	/ERED AT:			LOT #	
				<u>.</u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PICK	UP AT: Fee	10/01		Pi	The state of the s
3	UP AT: Fea	loa	of s	Jill	TO THE STATE OF TH
TRUC	K NO.:	D TA TW	, DRI	VER:	
RENT	AL TIME IN:		<u> </u>	TIME OUT:	
	#:				
Yds.	Material	# Lds.	Yds.	Material	# Lds.
	Sep. Sand			³/₄" Loam	
	Screen Sand			1" Loam	
				3" Loam	
	Common Fill				
	Structural Fill			Mulch / Compost	
				Clay	
	Bank Gravel				
	3" Screened Gravel			Other	
	³/₄" Process Gravel				_:
***	³/₄" Blue Stone				
	Blue Stone Dust				
	_				

Received by X.

By signing this ticket, I agree with the above quantity (yardage/tonnage). We assume no responsibility for damage to property when delivery is made inside ourbing.

i.



OR	CRONI	<u>r) </u>	
	CARUCK		
	820		
TRUCK#		DRIVER	
Almed	in Acy	Kenn	4
LOADS	YARDS	HOURS	DESCRIPTION
#9 2 4 ,	Coare	GRAIN	GRAVEL
	CANGE	to	FILL
	Prov		LOAM
			DOZER
To Aun	/		LOADER
700 Bun	9		TRUCKS
Gross			
Tare			
NET			·

2567

Signed 57 Luc 62



AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

FOR	CRONI	N	
LOCATION _	CARUOK	1 Proc)
,	<u>&</u>	10	
HUCK# ALMEIDA	# 9	DRIVER	VE
LOADS	YARDS	HOURS	DESCRIPTION
3	Lors	beauge!	GRAVEL
	Corner	to	FILL
	Proc		LOAM
			DOZER
700 A			LOADER
BYO PM	1		TRUCKS
Gross			
Tare NET			



CRONW

DATE_/	8 20. 4 4 2	- I nonven	
LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS	Genel	GRAVEL
	CANCION	70.	FILL
	Pres		LOAM
			DOZER
700AU			LOADER
330 934			TRUCKS
Gross Tare			
NET			
256	4 sig	ned 518c	e(m.

BB

AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

	LOCATION	CARUER Y	to PROV	ge 7
	LOADS	YARDS	HOURS	DESCRIPTION
	3			GRAVEL
	Flom	7:00		FILL
**. ** **	To	3:30		LOAM
· ·				DOZER
				LOADER
: :				TRUCKS
	a 1 - 1 - 1 - 1			<u> </u>

0570

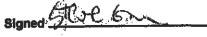
Gross

NET



CALCULA DRIVER					
LOADS	YARDS	Hours	DESCRIPTION		
F	28	200	GRAVEL		
			FILL		
			LOAM		
			DOZER		
			LOADER		
			TRUCKS		
Gross					
	1 -	l .	1		

0460





AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

LOCATION COM FURNIAT						
DATE 4/1	20	10				
TRUCK# //		DRIVER				
CALDEL	11	pe	"he"			
LOADS	YARDS	Hours	DESCRIPTION			
3	24	Pau	GRAVEL			
·			FILL			
			LOAM			
			DOZER			
			LOADER			
			TRUCKS			
Gross						
Tare						
NET						
		Kin	0 (



RUCK# 3	y-	DRIVER	us's
LOADS	YARDS	HOURS	DESCRIPTION
5	28	700	GRAVEL
			FILL
			LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NĘT			

BB
TRUCKING

AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

OR CR	AAHAA		
	, * *	I Do.	
	ranjon /	-	
DATE 11-15	20 -	10	
TRUCK#		DRIVER	
BHBTRUC	kive #13	Jwe	us
LOADS	YARDS	HOURS	DESCRIPTION
2	LOADS	GRANIS	GRAVEL
	CARYON	'	FILL
	Pros.		LOAM
3 LOADS	COMPOST	Fam.	DOZER
700 AUG			LOADER
330 PM			TRUCKS
Gross			
Tare		ļ	
NET			
<u> </u>		Gra	16
0.50	Si	gned	

G. LOPES CONSTRUCTION, INC. 565 Winthrop Street Taunton, MA 02780 Telephone (508) 824-4834 Fax (508) 880-3115

DATE 11/17 # 344559 SOLD TO: DELIVERED AT DRIVER TRUCK NO: P. O. #: TIME IN: LOT#: TIME OUT GROSS: TARE: NET Material # Lds. Yds. Material Yds. 3/4" Process Gravel Sep. Sand 1 1/2" Process Gravel Gravel: 3/4" Dense Graded Fill 3/8" Dense Graded 3" Screened Loam 3/4" Stone Washed L 3/4" Screened Loam 1 1/2" Stone Washed 3/4" Screened Grave 3/4" Recycled Concrete 3" Screened Gravel 1 1/2" Recycled Asphalt Other

Received by X By algoing this ticket, hagree with the above quantity (yardage/formage). We assume no responsibility for damage to property when delivery is made inside curbing.



TRUCK# A(M.Q.)	din Ag	DRIVER	W.
LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS	GRAVO	GRAVEL
	CARUSA	1	FILL
	PROU.		LOAM
			DOZER
700.46	1		LOADER
700 AG	Ör		TRUCKS
Gross			
Tare	<u> </u>		
NĘT	1		

BB TRUSKING P

AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02369
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CRONN	
LOCATION CARUOL	
DATE 1-17 20 4	<u> </u>
Almerdia 1	TRANK.

LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS.	GRAUD	GRAVEL
	CANUON	to	FILL
	Paso		LOAM
			DOZER
700 AU	2		LOADER
700 AU 340 60	01		TRUCKS
Gross			
Tare			<u> </u>
NET			

2561

Signed ///



CRONIN

	ANVER /		
B+B+	13	JU JU	idls
LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS	GRAUOL	GRAVEL
	LARESE		FILL
	PROV.		LOAM
-			DOZER
700 Aug	9		LOADER
700 Am 330 Pm	1		TRUCKS
Gross			
Tare			
NET		·	
256	O Sig	ned M.	10



TRUCK#	25/	DRIVER	vid
LOADS	YARDS	HOURS	DESCRIPTION
3	acyds A	Load Fo	GRAVED
The same		CARUAD	
			LOAM
7100	START		DOZER
3.20	Firesh	·	LOADER
81/	7	Hours	TRUCKS
	1/6/1/	7 44-14-	
Gross		4	



UCK#	/720	10	DRIVER	
	/ D		FRI	ANK
LOAD\$	YARDS	Τ	HOURS	DESCRIPTION
2	26	10	30 AM	GRAVEL
		1		FILL
				LOAM
				DOZER
				LOADER
				TRUCKS
Gross				
				1

1554

BB
TRUCKING

	ti (500) 500 42.		
OR C	ROWNi	n/	
UK	CARVER	to PROU	
LOCATION _	CHRUEL	ID Truc	
DATE 1	1720.	10	
TRUCKII 5		RANG	11
LOAD8	YARDS	HOURS	DESCRIPTION
3			GRAVEL
FROM	7:00		FILL
10	3:30		LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NET		No.	
05	co s	Igned	Pho-
05	บบ		•

B.B. COLELLO, INC.

75 Providence Street • Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

FOR CrowNI	V
	for Providence
DATE 21-17 20_	

	TRUCK # // C	DRIVER
4	A CONTROL OF THE STATE OF THE S	

LOADS	YARDS	HOURS	DESCRIPTION
211			GRAVEL
	Start	1030	FILE
	Enni2	760	LOAM
		ずん	DOZER
			LOADER
			TRUCKS
Gross			
Tare			
Net			

04**66** Signed 4



75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 - Fax (508) 336-4275

FOR CROUSTN	Verchas To Para B
DATE 10415	20 /0:
TRUCK#	LIBBY ALCISILA

LOADS	YARDS	HOURS	DESCRIPTION
74	264		GRAVEL
	. J.	15	FILL
	2 0		LOAM
			DOZER
,			LOADER
			TRUCKS
Gross			10:30 0
Tare			30001
NET		***	

0025

Signed ///



FOR CASSES AND

ATE ///	<u> 20.</u>		
TRUCK# //		DRIVER	ente
Carol	4		
LOADS	YARDS	HOURS	DESCRIPTION
3	28	700 336	GRAVEL
		2	FILL
			LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NET	355		
04	56 s	igned	Gr.



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CHIEVAL KI	ra Floods
LOCATION	
DATE ////	20,26
TRUCK# 3	Dewis
CAX-06-4	

LOADS	YARDS	HOURS	DESCRIPTION
3	26	700-330	GRAVEL
		5	FILL
·			LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare		<u> </u>	
NET			

0455

Sign



FOR	
LOCATION	to prove of
DATE 11/17	20 / 0
TRUCK# /7	DRIVER IN ANALY
COLONH	

LOADS	YARDS	HOURS	DESCRIPTION
.3	28	700334	GRAVEL
		82	FILL
			LOAM
			DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NET		1'	10.11

0457





AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

	20	1	
TRUCK# 3	6614	DRIVER D	
LOADS	YARDS	HOURS	DESCRIPTION
3	28	631-300	GRAVEL
		2	FILL
			LOAM
			DOZER
·			LOADER
· <u>- · · · · · · · · · · · · · · · · · ·</u>			TRUCKS
Gross Tare		7 (1)	
NET		and the second	entre en



TRUCKI // CALBERT OCHEK				
LOADS	YARDS	HOURS	DESCRIPTION	
3	28	630-34)	GRAVEL	
	s Antoni Ma	2	FILL	
			LOAM	
			DOZER	
			LOADER	
<u> </u>			TRUCKS	
Gross				
Tare			 	
NET		# .		



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

OCATION CALLED AT PLOY AT			
ATE ///// 20	_		
TRUCK# / 7	DRIVER MAGLY		
Chilosi			

LOADS	YARDS	HOURS	DESCRIPTION
2	20	Kto do	GRAVEL
,		7	FILL
			LOAM
			DOZER
· · · · · · · · · · · · · · · · · · ·			LOADER
		·	TRUCKS
Gross			
Tare			
NET			

0454

Signed 577000

G. LOPES CONSTRUCTION, INC.
490 Winthrop Street, Taunton, MA 02780
(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

	ERED AT:				
PICK (JPAT: For	los	ela.	Fill	
TRUCI RENTA	KNO.:	D TA TV	/ DRI	VER:	· · · ·
P. O. #	: Material	# Lds.	Yds.	Material	# Ld
	Sep. Sand			³/4" Loam	
	Screen Sand			1" Loam	
2(F.11		7	3" Loam	
	Common Fill				,
	Structural Fill			Mulch / Compost	
				Clay	•
	Bank Gravel				
	3" Screened Gravel			Other	
	³/₄" Process Gravel			Н	
	1/4" Blue Stone				
	Blue Stone Dust				



FOR	CKONIN	1- Phou)
DATE //-/	20	K	
TRUCKA, Almei	·/·	DRIVER	
Almei	d 119 19	SIE	ν <u>Σ</u>
LOADS	YARDS	HOURS	DESCRIPTION
	/		

LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS	GRAUE!	GRAVEL
	784AR	6x40e/ 25	FILL
	CARVOR	70	LOAM
	The		DOZER
715 ACM			LOADER
300 pm	(8hh)		TRUCKS
Gross			
Tare			
NET			2

2556

Sianed_



DATE 15 20/0				
ALMORDIA # 7 FRANK				
LOADS	YARDS	HOURS	DESCRIPTION	
3	LOAMS	GREAKE	GRAVEL	
	78 /AR	بحد	FILL	
	Conva	10	LOAM	
	low		DOZER	
700AM		·	LOADER	
700AM	(8hrs)		TRUCKS	
Gross Tare				
NET				
2555 Signed				



FOR	CRONIA)	
LOCATION _	CARVER -	PROU	·
DATE //-/	20 ,	10	
TRUCK# CANDIC!	TEM	DRIVER J.M.	ny
LOADS	YARDS	HOURS	DESCRIPTION
3	Conni	GRAval	GRAVEL
	78 YA		FILL
	CACUEL		LOAM
	PROU		DOZER
700 Acy		,	LOADER
700 Aug	(8hrs)	7	TRUCKS
Gross			
Tare	<u> </u>		
NET			07
25	5 4 sig	ined _	Aller .



FOR CRONIN	
DATE 11-15 20 L	_
CANDIGIT & !!	Deraick

LOADS	YARDS	HOURS	DESCRIPTION
3	COADS	Grave/	GRAVEL
	78 YA		FILL
	CARJA	10	LOAM
	Prov.		DOZER
700 AM			LOADER
700 P4	(8hrs)		TRUCKS
Gross			
Tare			
NET			to to the second

Signed _____



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CROWNIN	П
LOCATION CARVER	to PROV
DATE	10
TRUCK#	PRIVER PROMISE

LOADS	YARDS	HOURS	DESCRIPTION
			GRAVEL
From	7:00		FILL
TO	3.30		LOAM
-			DOZER
			LOADER
*			TRUCKS
Gross			
Tare NET			h

0567

Signed.



LOCATION (ARVER / PROU			
TRUCK	DRIVER		
CANDIGIT # 3	D-ennis		

LOADS	YARDS	HOURS	DESCRIPTION
3	COADS	GRAUDI	GRAVEL
	78 YA		FILL
	CAnger	70	LOAM
	eass		DOZER
700 AM			LOADER
300 PM/	8hs)		TRUCKS
Gross			
Tare		<u>. </u>	
NET		2 / 3 / 5	

2552





AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

FOR (ROND)	V.	
LOCATION CARVER	1 PROU.	14
DATE 11-15 20	010	
TRUCK#	DRIVER	
B+B# 13	Juels	· · · · · · · · · · · · · · · · · · ·

LOADS	YARDS	HOURS	DESCRIPTION
3	COADS	GRALL	GRAVEL
	78 4A	nps .	FILL
	CANUAL	10	LOAM
	Prou		DOZER
700 A W			LOADER
300 Pug	Surs/		TRUCKS
Gross			
Tare			
NET			

47047 G. LOPES CONSTRUCTION, INC.
490 Winthrop Street, Taunton, MA 02780
(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

יו וטפ	то: ЛС	D		DATE <u>////</u>	
	/ERED AT:			LOT#	
·				2	
PICK.	UP AT:	Edola	/ -	Pit	
91	onos desil	Le le	1	fell	
RUC	K NO.:	TA TW	DRI	VER:	<u> </u>
RENT	AL: 🗆 TIME IN:	·		TIME OUT:	· · · · ·
· O.	#:	 -			1 31 -
Yds.	Material	# Lds.	Yds.	Material	# Lds
	Sep. Sand			³/‹" Loam	
	Screen Sand			1" Loam	
1				3" Loam	
	Common Fill				
	Structural Fill			Mulch / Compost	
	11			Clay	
	Bank Gravel	-			
	3" Screened Gravel		 	Other	
<u> </u>			-		
· ·	³/₄" Process Gravel		-		
<u> </u>					
٠	¾" Blue Stone		-		
	Blue Stone Dust				
•	` •		1	1	1

Proceived by X

By signing this ticket, Lagree with the above quantity (yardage/tonnage). We assume no responsibility for damage to property when delivery is made inside curbing.



FOR CRONIN)
LOCATION CARVER	- PROU.
DATE 11-12 20	19
B+B#13	DRIVER

LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS	GRACE	GRAVEL
			FILL
	:	e(*)	LOAM
	CARUER	m4 ro	DOZER
	PROVI,	RI	LOADER
574n+	700 AM		TRUCKS
Gross		VAR5	
Tare		Div	
NET			1



OR CI	SONIN		
OKC	ARUER -	PROU.	<u></u>
		Δ.	
ATE	<i>7</i> 20 ¹		
TRUCK#	.d	DRIVER	
CANDICIT	# 11	Der	1ck
LOADS	YARDS	HOURS	DESCRIPTION
	LOADS	62AUE	GRAVEL
	20103	0.070	FILL
<u> </u>	CARCION	加多力	LOAM
	Pros	RS	DOZER
		4.7	LOADER
ET MET	708AM	(8hr)	TRUCKS
Gross	, ,	3443	
Tare			
NET			
		M	Mu
22	298 ^s	igned _/ //	1

TRUCKING P

TRUCK#	1720	DRIVER	
CANDIE	T # 3	Den	NIS
LQAD8	YARDS	HOURS	DESCRIPTION
	LOADS	GRACEL	GRAVEL
			FILL
			LOAM
	CARUOL	M4 70	DOZER
	Cray .	(Ehra)	LOADER
Striat	700 AM	S. A.C.	TRUCKS
Gross			,
Tare NET			

47 J 46 G. LOZES CONSTRUCTION, INC.
490 Winthrop Street, Taunton, MA 02780
(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

DELIV	/ERED AT:			LOT#	
PICK	UPAT: Foo	10101	male	Pit Brok E	11
TRUC	K NO.:	TA TV	V DR	IVER:	
RENT	AL: TIME IN:			TIME OUT:	
	k:				
Yds.	Material	# Lds.	Yds.	Material	# Lds
	Sep. Sand	i i i i i i i i i i i i i i i i i i i		%" Loam	
	Screen Sand			1" Loam	1
	RANK F.11	25	los	8" Loam	
	Common Fill	640	S	A LOAD	,
	Structural Fill		,	Mulch / Compost	
37	rucks 3 Lo	Ads	23	Clay	•
	Bank Gravel A	ACC			
	3" Screened Gravel			Other	
	1/4" Process Gravel				
	// Blue Stone				
	Blue Stone Dust				
	,				



CATION	CARVER	mas.	
	1120		1847
RUCK#		DRIVER	
8#	À.	MIR	Placello
	YARDS	HOURS	Place I C

LOADS	YARDS	HOURS	DESCRIPTION
111	261		GRAVEL
211		اشتا المدا	FILL
			LOAM
			DOZER
<u></u>			LOADER
	1 /	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRUCKS
Gross Tare			om g ops
NET			

0024

Signed //

BB
TRUCKING

AND HEAVY EQUIPMENT
75 Fanvidence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR CROWALL		-
DATE HALL	e PROVIDENCE	_
TRUCK#	DRIVER	_
lo	FLANK	

LOADS	YARDS:	HOURS	DESCRIPTION
CTART	@ 7:00	AM A	GRAVEL
	1 2:W		FILL
			LOAM
	t yezh y deus de gen ji Ben		DOZER
			LOADER
			TRUCKS
Gross			
Tare			
NET			

1553

Signed .

B.B. COLELLO, INC. 75 Providence Street • Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

ATE 😃		20 10	
TRUCK	44	DRI	VER
LOADS	yard s	HOURS	DESCRIPTION
3/16		3	GRAVEL
	Start	700	FILL
	fanns		LOAM
	81	Lie	DOZER
			LOADER
			TRUCKS
Grass			
Tare			
Net,			



AND HEAVY EQUIPMENT 75 Providence Street, Rehoboth, MA 02769 Tel (508) 336-4272 • Fax (508) 336-4275

	BONIN CARUER/		
DATE	20	, t°	
TRUCK#		DRIVER	
BIB	# 13	Nt	iells.
LOADS	YARDS	HOURS	DESCRIPTION
3	Longs	Spare (GRAVEL
	CARYento	Prov	FILL
_	78 YA		LOAM
			DOZER
Sturet	700		LOADER
Frish	300	8hPS)	TRUCKS
Gross		With the same of t	
Tare		<u> </u>	
NET			



NOWWIN Trucking

OCATION &	Joh Pa	IM ASS	H Rol Prac
TRUCK#	9	DRIVER	vid
LOADS	YARDS	HOURS	DESCRIPTION
3	26 yds 1	LOAD	GRAVEL
Foom	GLapes	PIT CAR	er FILL
,		, 1)	LOAM
7.00	STATT		DOZER
3:00	FINISH		LOADER
8	Total	Hours	TRUCKS
Gross			
Tare			
NĘT			

2390

BB

TRUCK#	3	DRIVER	RC+C Bounderen Fr Coppes in Cop
<u> </u>		Beck	m
LOADS	YARDS	HOURS	DESCRIPTION
	30	An pa	GRAVEL
			FILL
			LOAM
Constitution of the Consti	- 32		DOZER
\$60 (9)			LOADER
<u> </u>			TRUCKS
Gross			
Tare			
NET			San Street Co.



FOR	TAGNIA.	- A	
LOCATION	Carrie to	Pari	
DATE_#-/	<u>/</u>	10	
TRUCK#		North	1
LOADS	YARDS	HOURS	DESCRIPTION
3-100	15		GRAVEL
			FILL
17-	315		LOAM
			DOZER
<u>. </u>			LOADER
			TRUCKS
Gross Tare			
NET			

2512

Signed M. III



DATE /	CARVER -11 20		<u></u>
TRUCK#)	DRIVER RATVO	dy
LOADS	YARDS	HOURS	DESCRIPTION
		, ;	GRAVEL
1.4 4.8	1		FILL
FRom			LOAM
7:00			DOZER
TO		:	LOADER
3.15		w <u>d</u>	TRUCKS
Gross Tare	And the second s		
NET	**		
05	o c Sig	ned M. J.	1

47 142 G. LOPES CONSTRUCTION, INC.
490 Winthrop Street, Taunton, MA 02780
(508) 824-4834 • 1-800-562-2479 • Fax (508) 880-3115 TRUCK SLIP

DELIVE	TO: RC			LOT#	<u> </u>	
DELIVE	ERED AT:			LOT#	1.	
	IDAT: FOXO		}			
PICK U	IPAT:Fede		; .	·		
		101		it		
	troub	<u> </u>	<u> 50 l</u>	5 Fill		
TRUCK	(NO.:	NT AT	DRI	VER:		
	L: D TIME IN:	• .	3	TIME OUT:	•	
. — .	Material	# Lds.	Yds.	Material		Lds.
	Sep. Sand			9.00		12.5
	Screen Sand			1" Loam		
alds			*	3" Loam		
	Common Fill	7	er n Constant			
	Structural FIII			Mulch / Compost		<u> </u>
				Clay		
	Bank Gravel					
	3" Screened Gravel			Other		<u> </u>
	*/." Process Gravel			·		
	²/₄" Blue Stone			, , , , , , , , , , , , , , , , , , , ,		
	Blue Stone Dust					
			45	1		, C)
Rece	ived by X ining this ticket, I agree with the	ر ا				



	a Trucking
LOCATION Job Para	Ausort Rd Prou Rt
DATE 11-9 20,	10
TRUCK#	DAVIO
0-1	10,,,,,,

LOADS	YARDS	HOURS	DESCRIPTION
3	Hyds A.	hond	GRAVEL
From	GLopes	Pet Caru	FILL
	7.7.		LOAM
7:00	STArt		DOZER
3:30	FINISS		LOADER
81/2		lours	TRUCKS
Gross Tare			
NET		$\Lambda_{\mathcal{A}}$,

2389

Signed



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

FOR (RONIN	RCANDD
LOCATION CARVER!	Pnou
DATE 1/- 05 20 1	$\Delta = \sqrt{2}$
TRUCK#	DRIVER
B+BH 13	Justis

LOADS	YARDS	HOURS	DESCRIPTION
3	LOADS 6	RALOL	GRAVEL
	78 1A	RDS	FILL
	CARYEL	m	LOAM
	Prov. 7	t e	DOZER
START	700 AM	·	LOADER
END	330 PM	(8/2 hes	TRUCKS
Gross		Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner,	
Tare		<u> </u>	
NET			1



FOR CROWNIN	CONST (RCa)	<u>)</u>
LOCATION CARVER 1	o PROV	
DATE 20	<u>10</u>	
TRUCK	DRIVER	

LOADS	YARDS	HOURS	DESCRIPTION
3	CARVER		GRAVEL
. :	PROV		FILL
			LOAM
<u> </u>			DOZER
FRom	7:00		LOADER
10	3:30	Sange Paris Consultantes - Consultantes	TRUCKS
Gross			
NET			يان راكه د هي اللهي

2100



AND HEAVY EQUIPMENT
75 Providence Street, Rehoboth, MA 02769
Tel (508) 336-4272 • Fax (508) 336-4275

ATE_ZI-	<u></u>	10			
TRUCK#	4	DRIVER			
LOADS	LOADS YARDS HOURS		S YARDS HOURS DESC		DESCRIPTION
21./5	Shert	200	GRAVEL		
	Frankl	236	FILL		
			LOAM		
ericker	10 m	87 shre	DOZER		
			LOADER		
			TRUCKS		
Gross Tare					
NET	9				

Lincoln Lace & Braid 55 Ponagansett Ave. Providence, RI

Gravel / Fill

Load Date	No. of Trucks	G. Lopes Ticket No.	B&B Trucking Ticket No.	Truck No.	Load Volume (CY)	No. of Loads	Hours	Total (CY)
11/19/2010	1	80765	463	Candigit 17	28	3	8.5	84
11/19/2010	1	80765	462	Candigit 11	28	3	8.5	84
11/19/2010	1	80765	461	Candigit 3	28	3	8.5	84
11/19/2010	6					18	49.5	504
12/1/2010	1	62965	N/A	204	28	3	8	84
12/1/2010	1	73573	N/A	184	28	3	8	84
12/1/2010	1	79859	N/A	208	28	3	8	84
12/1/2010	3					9	24	252
12/2/2010	1	62789	N/A	190	28	3	8	84
12/2/2010	1	73574	N/A	184	28	3	8	84
12/2/2010	1	79031	N/A	202	28	3	8	84
12/2/2010	1	80382	N/A	188.149	28	3	8	84
12/2/2010	4					12	32	336
12/3/2010	1	62790	N/A	190	28	3	8	84
12/3/2010	1	64632	N/A	171	28	3	8	84
12/3/2010	1	79032	N/A	202	28	3	8	84
12/3/2010	1	73575	N/A	184	28	3	8	84
12/3/2010	4					12	32	336
12/6/2010	1 1	73576	N/A	184	28	2	5	56
12/6/2010	1					2	5	56
						180	492	5040

Lincoln Lace & Braid

55 Ponagansett Ave. Providence, RI

Gravel / Fill

Load Date	No. of Trucks	G. Lopes Ticket No.	B&B Trucking Ticket No.	Truck No.	Load Volume (CY)	No. of Loads	Hours	Total (CY)
11/9/2010	1	47042	1031	44	28	3	8.5	84
11/9/2010	1	47042	2294	13	28	3	8.5	84
11/9/2010	1	47042	2100	5	28	3	8.5	84
11/9/2010	1	47042	2389	24	28	3	8.5	84
11/9/2010	4					12	34	336
11/11/2010	1	47046	2512	23	28	3	8.25	84
11/11/ <u>201</u> 0	1	47046	566	5	28	3	8.25	84
11/11/2010	1	47046	24	8	28	3	8	84
11/11/2010	1	47046	1553	6	28	3	8	84
11/11/2010	1	47046	465	44	28	3	8.5	84
11/11/2010	1 1	47046	2295	13	28	3	8	84
11/11/2010	1	47046	1140	20	28	3	8	84
11/11/2010	1	47046	2390	24	28	3	8	84
11/11/2010	8	470.47				24	65	672
11/12/2010	1 1	47047	2297	Candigit 3	28	3	88	84
11/12/2010	1 1	47047	2298	Candigit 11	28	3	8	84
11/12/2010	1	47047	2296	13	28	3	8	84
11/12/2010	3	(20.40				9	24	252
11/15/2010	1	47048	2551	13	28	3	8	84
11/15/2010	1	47048	2552	Candigit 3	28	3	. 8	84
11/15/2010	1	47048	567	5	28	3	8.5	84
11/15/2010	1	47048	2553	Candigit 11	28	3	8	84
11/15/2010	1	47048	2554	Candigit 17	28	3	8	84
11/15/2010	1	47048	2555	Almeida 7	28	3	8	84
11/15/2010	1 1	47048	2556	Almeida 9	28	3	8	84
11/15/2010	7					21	56.5	588
11/16/2010	1		454	Candigit 17	28	2	6.5	56
11/16/2010	1		453	Candigit 11	28	3	8.5	84
11/16/2010	1		452	Candigit 3	28	3	8.5	84
11/16/2010	3					8	23.5	224
11/17/2010	1	344559	457	Candigit 17	28	3	8.5	84
11/17/2010	1	344559	455	Candigit 3	28	3	8.5	84
11/17/2010	1	344559	456	Candigit 11	28	3	8.5	84
11/17/2010	1	344559	25	8	28	2	4.5	56
11/17/2010	1	344559	466	44	28	2	5.5	56
11/17/2010	1	344559	569	5	28	3	8.5	84
11/17/201 <u>0</u>	1	344559	1554	6	28	2	5	56
11/17/2010	1	344559	2391	24	28	3	8.5	84
11/17/2010	1	344559	2560	13	28	3	8.5	84
11/17/2010	1	344559	2561	Almeida 7	28	3	8.5	84
11/17/2010	1	344559	2562	Almeida 9	28	3	8.5	84
11/17/2010	11					30	83	840
11/18/2010	1	80760	2563	13	28	2	4	56
11/18/2010	1	80760	458	Candigit 3	28	3	8.5	84
11/18/2010	1	80760	459	Candigit 11	28	3	8.5	84
11/18/2010	1	80760	460	Candigit 17	28	3	8.5	84
11/18/2010	1	80760	570	5	28	3	8.5	84
11/18/2010	1	80760	2564	Almeida 7	28	3	8.5	84
11/18/2010	1	80760	2566	Almeida 9	28	3	8.5	84
11/18/2010	1	80760	2567	Almeida 4	28	3	8.5	84
11/18/2010	8					23	63.5	644
4.4.4.0.10.0.4.0	1	80765	2569	Almeida 9	28	3	8	84
11/19/2010								
11/19/2010 11/19/2010	1	80765	2570	Almeida 7	28	3	8	84

Date: 13- 1-10 AUE Delivered Unit Price Total Sub Total Tax Delivery City/States PROUIDEANE R.T Address: COUMGANSETT Lancold LACE 1.4 ξ. u. Picked Up A SEUS INC Main Office 125 Turnpike Street SCR. LOAM Canton, MA 02021 Description Job Name: FO. #read custom soils sold to:-Received By: Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** a Division of WELL SAME/CANTON Infield Mix **1-888-475-5526** Other * Loam Charge Truck: Gross: Tare: Net: 1540S STATE OF STATE OF Qty Amount Date: 13-7-10 Address POL) AGAINSETT AUE RY H ACE Delivered Unit Price Total Tax Sub Total Delivery City/State: TROUIDENCE (M)COLW) Picked Up ANIESS INC read custom soils sold to R.C. 7 Main Office 125 Turnpike Street Canton, MA 02021 Description , Job Name: Received By: -Roof Garden Soil COD Topdressing Sand Topdressing Mix Root Zone Mix **Bunker Sand** a Division of WILL SAME/PANTAW Infield Mix 1-888-475-5526 Loam Other Charge Truck:

4.

Gross:

Tares Net: 2010

Amount

25-23

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read custom soils sold to: 10 0 0 rovedence Picked Up Main Office 125 Turnpike Street Canton, MA 02021 Sereened * Description Blanton City/State: # 62 Received By: į Topdressing Sand Roof Garden Soil COD Topdressing Mix Root Zone Mix **Bunker Sand** Infield Mix 3540 15 Loam Other a Division of WILL SA Charge Truck: 38213 Gross: Tare: Net: V. Š Amount Date: 13-6-10 ACE Delivered Unit Price Total Sub Total Tax AC J Delivery Address: + CAN PAGAN SETT City/State Powide UC Job Names J.L. INCOLA Picked Up read custom soils sold to: R.C. D Main Office . 125 Turnpike Street Canton, MA: 02021 MEG Description PO. # __ Received By: SCP Topdressing Sand Roof Garden Soil Topdressing Mix Root Zone Mix Bunker Sand a Division of Mall. Same/Caletter * Infield Mix 1-868-475-5526 Other र्श क Loam Iruck: 20702 Gross: Tare: Net 35405

``,;' *

Date: 12 107/10

Amount

Unit Price

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Delivered

Sub Total

Delivery

Tax

Total

Appendix E

Certificates of Analysis of Imported Soils



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Rob Schuster RC & D 17 Gordon Avenue, Suite 204 Providence, RI 02905-1952

RE: Lincoln Lace (1006)

ESS Laboratory Work Order Number: 1012057

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

ESS Laboratory Work Order: 1012057 Client Project ID: Lincoln Lace

SAMPLE RECEIPT

The following samples were received on December 03, 2010 for the analyses specified on the enclosed Chain of Custody Record.

Client did not deliver samples in a cooler. VOCs were preserved in methanol by ESS Laboratory.

Lab Number 1012057-01

SampleName 1006-GFGrab08 Matrix Soil

Analysis

6010B, 7471A, 7841, 8100M, 8260B, 8270C



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

PROJECT NARRATIVE

8270C Semi-Volatile Organic Compounds

CL00623-MSD1 Relative percent difference for duplicate is outside of criteria (D+).

Pyridine (33%)

CTL0044-CCV1 <u>Calibration required quadratic regression (Q).</u>

2,4-Dinitrophenol (109% @ 70-130%), Hexachlorocyclopentadiene (97% @ 70-130%),

Pentachlorophenol (119% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte	Results (MRL)	Method	Limit	<u>DF</u>	Analyst	Analyzed	<u>I/V</u>	F/V	Batch
Antimony	ND (4.8)	6010B	10	1	SVD	12/08/10 17:47	2.18	100	CL00601
Arsenic	ND (2.4)	6010B	7	1	SVD	12/08/10 17:47	2.18	100	CL00601
Beryllium	0.15 (0.10)	6010B	0.4	1	SVD	12/08/10 17:47	2.18	100	CL00601
Cadmium	ND (0.49)	6010B	39	1	SVD	12/08/10 17:47	2.18	100	CL00601
Chromium	2.5 (1.0)	6010B	1400	1	SVD	12/08/10 17:47	2.18	100	CL00601
Copper	ND (2.4)	6010B	3100	1	SVD	12/08/10 17:47	2.18	100	CL00601
Lead	ND (4.8)	6010B	150	1	SVD	12/08/10 17:47	2.18	100	CL00601
Mercury	ND (0.032)	7471A	23	1	JP	12/07/10 16:43	0.66	40	CL00602
Nickel	ND (2.4)	6010B	1000	1	SVD	12/08/10 17:47	2.18	100	CL00601
Selenium	ND (4.8)	6010B	390	1	SVD	12/08/10 17:47	2.18	100	CL00601
Silver	ND (0.49)	6010B	200	1	SVD	12/08/10 17:47	2.18	100	CL00601
Thallium	ND (1.20)	7841	5.5	5	SVD	12/10/10 17:15	2.18	100	CL00601
Zinc	3.3 (2.4)	6010B	6000	1	SVD	12/08/10 17:47	2.18	100	CL00601



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 20.3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

			RI - RES DI	EC			
Analyte	Results (MRL)	MDL	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
1,1,1,2-Tetrachloroethane	ND (0.0830)	0.0072	2.2	1	12/06/10 22:33	CTL0041	CL00619
1,1,1-Trichloroethane	ND (0.0415)	0.0073	540	1	12/06/10 22:33	CTL0041	CL00619
1,1,2,2-Tetrachloroethane	ND (0.0415)	0.0113	1.3	1	12/06/10 22:33	CTL0041	CL00619
1,1,2-Trichloroethane	ND (0.0415)	0.0104	3.6	1	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloroethane	ND (0.0415)	0.0066	920	1	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloroethene	ND (0.0415)	0.0102	0.2	1	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloropropene	ND (0.0415)	0.0064		1	12/06/10 22:33	CTL0041	CL00619
1,2,3-Trichlorobenzene	ND (0.0415)	0.0139		1	12/06/10 22:33	CTL0041	CL00619
1,2,3-Trichloropropane	ND (0.0415)	0.0103		1	12/06/10 22:33	CTL0041	CL00619
1,2,4-Trichlorobenzene	ND (0.0415)	0.0091	96	1	12/06/10 22:33	CTL0041	CL00619
1,2,4-Trimethylbenzene	ND (0.0415)	0.0080		1	12/06/10 22:33	CTL0041	CL00619
1,2-Dibromo-3-Chloropropane	ND (0.249)	0.0830	0.5	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dibromoethane	ND (0.0415)	0.0105	0.01	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichlorobenzene	ND (0.0415)	0.0059	510	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichloroethane	ND (0.0415)	0.0111	0.9	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichloropropane	ND (0.0415)	0.0109	1.9	1	12/06/10 22:33	CTL0041	CL00619
1,3,5-Trimethylbenzene	ND (0.0415)	0.0073		1	12/06/10 22:33	CTL0041	CL00619
1,3-Dichlorobenzene	ND (0.0415)	0.0052	430	1	12/06/10 22:33	CTL0041	CL00619
1,3-Dichloropropane	ND (0.0415)	0.0093		1	12/06/10 22:33	CTL0041	CL00619
1,4-Dichlorobenzene	ND (0.0415)	0.0110	27	1	12/06/10 22:33	CTL0041	CL00619
1,4-Dioxane - Screen	ND (4.15)	1.39		1	12/06/10 22:33	CTL0041	CL00619
1-Chlorohexane	ND (0.0415)	0.0079		1	12/06/10 22:33	CTL0041	CL00619
2,2-Dichloropropane	ND (0.0830)	0.0142		1	12/06/10 22:33	CTL0041	CL00619
2-Butanone	ND (1.04)	0.240	10000	1	12/06/10 22:33	CTL0041	CL00619
2-Chlorotoluene	ND (0.0415)	0.0117		1	12/06/10 22:33	CTL0041	CL00619
2-Hexanone	ND (0.415)	0.0715		1	12/06/10 22:33	CTL0041	CL00619
4-Chlorotoluene	ND (0.0415)	0.0054		1	12/06/10 22:33	CTL0041	CL00619
4-Isopropyltoluene	ND (0.0415)	0.0074		1	12/06/10 22:33	CTL0041	CL00619
4-Methyl-2-Pentanone	ND (0.415)	0.0500	1200	1	12/06/10 22:33	CTL0041	CL00619
Acetone	ND (1.04)	0.307	7800	1	12/06/10 22:33	CTL0041	CL00619
Benzene	ND (0.0415)	0.0067	2.5	1	12/06/10 22:33	CTL0041	CL00619

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 20.3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

			RI - RES D	EC			
Analyte Bromobenzene	Results (MRL) ND (0.0415)	MDL 0.0114	<u>Limit</u>	<u>DF</u>	Analyzed 12/06/10 22:33	Sequence CTL0041	Batch CL00619
Bromochloromethane	ND (0.0415)	0.0135		1	12/06/10 22:33	CTL0041	CL00619
Bromodichloromethane	ND (0.0415)	0.0057	10	1	12/06/10 22:33	CTL0041	CL00619
Bromoform	ND (0.0415)	0.0120	81	1	12/06/10 22:33	CTL0041	CL00619
Bromomethane	ND (0.0830)	0.0277	0.8	1	12/06/10 22:33	CTL0041	CL00619
Carbon Disulfide	ND (0.0415)	0.0061		1	12/06/10 22:33	CTL0041	CL00619
Carbon Tetrachloride	ND (0.0415)	0.0072	1.5	1	12/06/10 22:33	CTL0041	CL00619
Chlorobenzene	ND (0.0415)	0.0066	210	1	12/06/10 22:33	CTL0041	CL00619
Chloroethane	ND (0.0830)	0.0277		1	12/06/10 22:33	CTL0041	CL00619
Chloroform	ND (0.0415)	0.0086	1.2	1	12/06/10 22:33	CTL0041	CL00619
Chloromethane	ND (0.0830)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
cis-1,2-Dichloroethene	ND (0.0415)	0.0103	630	1	12/06/10 22:33	CTL0041	CL00619
cis-1,3-Dichloropropene	ND (0.0415)	0.0094		1	12/06/10 22:33	CTL0041	CL00619
Dibromochloromethane	ND (0.0415)	0.0105	7.6	1	12/06/10 22:33	CTL0041	CL00619
Dibromomethane	ND (0.0415)	0.0131		1	12/06/10 22:33	CTL0041	CL00619
Dichlorodifluoromethane	ND (0.0415)	0.0072		1	12/06/10 22:33	CTL0041	CL00619
Diethyl Ether	ND (0.0415)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
Di-isopropyl ether	ND (0.0415)	0.0078		1	12/06/10 22:33	CTL0041	CL00619
Ethyl tertiary-butyl ether	ND (0.0415)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
Ethylbenzene	ND (0.0415)	0.0054	71	1	12/06/10 22:33	CTL0041	CL00619
Hexachlorobutadiene	ND (0.0415)	0.0139	8.2	1	12/06/10 22:33	CTL0041	CL00619
Isopropylbenzene	ND (0.0415)	0.0073	27	1	12/06/10 22:33	CTL0041	CL00619
Methyl tert-Butyl Ether	ND (0.0415)	0.0066	390	1	12/06/10 22:33	CTL0041	CL00619
Methylene Chloride	ND (0.208)	0.0109	45	1	12/06/10 22:33	CTL0041	CL00619
Naphthalene	ND (0.0415)	0.0109	54	1	12/06/10 22:33	CTL0041	CL00619
n-Butylbenzene	ND (0.0415)	0.0102		1	12/06/10 22:33	CTL0041	CL00619
n-Propylbenzene	ND (0.0415)	0.0101		1	12/06/10 22:33	CTL0041	CL00619
sec-Butylbenzene	ND (0.0415)	0.0056		1	12/06/10 22:33	CTL0041	CL00619
Styrene	ND (0.0415)	0.0055	13	1	12/06/10 22:33	CTL0041	CL00619
tert-Butylbenzene	ND (0.0415)	0.0097		1	12/06/10 22:33	CTL0041	CL00619
Tertiary-amyl methyl ether	ND (0.0415)	0.0060		1	12/06/10 22:33	CTL0041	CL00619



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 20.3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

ÐΙ	r i	D.	FC	\mathbf{D}	EC

<u>Analyte</u>	Results (MRL)	MDL		<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Tetrachloroethene	ND (0.0415)	0.0139		12	1	12/06/10 22:33	CTL0041	CL00619
Tetrahydrofuran	ND (0.415)	0.107			1	12/06/10 22:33	CTL0041	CL00619
Toluene	ND (0.0415)	0.0105		190	1	12/06/10 22:33	CTL0041	CL00619
trans-1,2-Dichloroethene	ND (0.0415)	0.0136		1100	1	12/06/10 22:33	CTL0041	CL00619
trans-1,3-Dichloropropene	ND (0.0415)	0.0128			1	12/06/10 22:33	CTL0041	CL00619
Trichloroethene	ND (0.0415)	0.0086		13	1	12/06/10 22:33	CTL0041	CL00619
Trichlorofluoromethane	ND (0.0415)	0.0110			1	12/06/10 22:33	CTL0041	CL00619
Vinyl Acetate	ND (0.208)	0.0086			1	12/06/10 22:33	CTL0041	CL00619
Vinyl Chloride	ND (0.0415)	0.0137		0.02	1	12/06/10 22:33	CTL0041	CL00619
Xylene O	ND (0.0415)	0.0080		110	1	12/06/10 22:33	CTL0041	CL00619
Xylene P,M	ND (0.0830)	0.0161		110	1	12/06/10 22:33	CTL0041	CL00619
Xylenes (Total)	ND (0.125)			110	1	12/06/10 22:33		[CALC]
		%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130				

	inccovery	Quanner	Liiiics
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130
Surrogate: 4-Bromofluorobenzene	105 %		70-130
Surrogate: Dibromofluoromethane	111 %		70-130
Surrogate: Toluene-d8	110 %		70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 20.1 Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: SEP

Prepared: 12/8/10 18:00

8100M Total Petroleum Hydrocarbons

	RI - RES DEC							
Analyte Total Petroleum Hydrocarbons	Results (MRL) ND (39.3)			<u>Limit</u> 500	<u>DF</u>	Analyzed 12/08/10 21:01	Sequence CTL0066	Batch CL00819
-		%Recovery	Qualifier	Limits				
Surrogate: O-Terphenyl		91 %		40-140				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 14.5 Final Volume: 0.5 Extraction Method: 3546 ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

		RI - RES D	EC			
<u>Analyte</u>	Results (MRL)	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.363)	0.8	1	12/07/10 10:21	CTL0044	CL00623
1,2,4-Trichlorobenzene	ND (0.363)	96	1	12/07/10 10:21	CTL0044	CL00623
1,2-Dichlorobenzene	ND (0.363)	510	1	12/07/10 10:21	CTL0044	CL00623
1,3-Dichlorobenzene	ND (0.363)	430	1	12/07/10 10:21	CTL0044	CL00623
1,4-Dichlorobenzene	ND (0.363)	27	1	12/07/10 10:21	CTL0044	CL00623
2,3,4,6-Tetrachlorophenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
2,4,5-Trichlorophenol	ND (0.363)	330	1	12/07/10 10:21	CTL0044	CL00623
2,4,6-Trichlorophenol	ND (0.363)	58	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dichlorophenol	ND (0.363)	30	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dimethylphenol	ND (0.363)	1400	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dinitrophenol	ND (1.82)	160	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dinitrotoluene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
2,6-Dinitrotoluene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Chloronaphthalene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Chlorophenol	ND (0.363)	50	1	12/07/10 10:21	CTL0044	CL00623
2-Methylnaphthalene	ND (0.363)	123	1	12/07/10 10:21	CTL0044	CL00623
2-Methylphenol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Nitrophenol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
3,3'-Dichlorobenzidine	ND (0.726)	1.4	1	12/07/10 10:21	CTL0044	CL00623
3+4-Methylphenol	ND (0.726)		1	12/07/10 10:21	CTL0044	CL00623
3-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4,6-Dinitro-2-Methylphenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
4-Bromophenyl-phenylether	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Chloro-3-Methylphenol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Chloroaniline	ND (0.726)	310	1	12/07/10 10:21	CTL0044	CL00623
4-Chloro-phenyl-phenyl ether	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Nitrophenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
Acenaphthene	ND (0.363)	43	1	12/07/10 10:21	CTL0044	CL00623
Acenaphthylene	ND (0.363)	23	1	12/07/10 10:21	CTL0044	CL00623



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 14.5 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

		RI - RES DI	EC			
Analyte	Results (MRL)	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Acetophenone	ND (0.726)		1	12/07/10 10:21	CTL0044	CL00623
Aniline	ND (0.726)		1	12/07/10 10:21	CTL0044	CL00623
Anthracene	ND (0.363)	35	1	12/07/10 10:21	CTL0044	CL00623
Azobenzene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Benzo(a)anthracene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
Benzo(a)pyrene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Benzo(b)fluoranthene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
Benzo(g,h,i)perylene	ND (0.363)	0.8	1	12/07/10 10:21	CTL0044	CL00623
Benzo(k)fluoranthene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
Benzoic Acid	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
Benzyl Alcohol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
bis(2-Chloroethoxy)methane	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
bis(2-Chloroethyl)ether	ND (0.363)	0.6	1	12/07/10 10:21	CTL0044	CL00623
bis(2-chloroisopropyl)Ether	ND (0.363)	9.1	1	12/07/10 10:21	CTL0044	CL00623
bis(2-Ethylhexyl)phthalate	ND (0.363)	46	1	12/07/10 10:21	CTL0044	CL00623
Butylbenzylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Carbazole	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Chrysene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Dibenzo(a,h)Anthracene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Dibenzofuran	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Diethylphthalate	ND (0.363)	340	1	12/07/10 10:21	CTL0044	CL00623
Dimethylphthalate	ND (0.363)	1900	1	12/07/10 10:21	CTL0044	CL00623
Di-n-butylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Di-n-octylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Fluoranthene	ND (0.363)	20	1	12/07/10 10:21	CTL0044	CL00623
Fluorene	ND (0.363)	28	1	12/07/10 10:21	CTL0044	CL00623
Hexachlorobenzene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Hexachlorobutadiene	ND (0.363)	8.2	1	12/07/10 10:21	CTL0044	CL00623
Hexachlorocyclopentadiene	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
Hexachloroethane	ND (0.363)	46	1	12/07/10 10:21	CTL0044	CL00623
Indeno(1,2,3-cd)Pyrene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 95 Initial Volume: 14.5 Final Volume: 0.5 Extraction Method: 3546

Surrogate: p-Terphenyl-d14

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

				RI - RES D	EC			
Analyte	Results (MRL)			<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Isophorone	ND (0.363)				1	12/07/10 10:21	CTL0044	CL00623
Naphthalene	ND (0.363)			54	1	12/07/10 10:21	CTL0044	CL00623
Nitrobenzene	ND (0.363)				1	12/07/10 10:21	CTL0044	CL00623
N-Nitrosodimethylamine	ND (0.363)				1	12/07/10 10:21	CTL0044	CL00623
N-Nitroso-Di-n-Propylamine	ND (0.363)				1	12/07/10 10:21	CTL0044	CL00623
N-nitrosodiphenylamine	ND (0.363)				1	12/07/10 10:21	CTL0044	CL00623
Pentachlorophenol	ND (1.82)			5.3	1	12/07/10 10:21	CTL0044	CL00623
Phenanthrene	ND (0.363)			40	1	12/07/10 10:21	CTL0044	CL00623
Phenol	ND (0.363)			6000	1	12/07/10 10:21	CTL0044	CL00623
Pyrene	ND (0.363)			13	1	12/07/10 10:21	CTL0044	CL00623
Pyridine	ND (1.82)				1	12/07/10 10:21	CTL0044	CL00623
		%Recovery	Qualifier	Limits				
Surrogate: 1,2-Dichlorobenzene-d4		68 %		30-130				
Surrogate: 2,4,6-Tribromophenol		86 %		30-130				
Surrogate: 2-Chlorophenol-d4		70 %		30-130				
Surrogate: 2-Fluorobiphenyl		68 %		30-130				
Surrogate: 2-Fluorophenol		72 %		30-130				
Surrogate: Nitrobenzene-d5		72 %		30-130				
Surrogate: Phenol-d6		77 %		30-130				

30-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00601 - 3050B

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

3050B/6000/7000 Total Metals

Blank									
Antimony	ND	5.0	mg/kg wet						
Arsenic	ND	2.5	mg/kg wet						
Beryllium	ND	0.10	mg/kg wet						
Cadmium	ND	0.50	mg/kg wet						
Chromium	ND	1.0	mg/kg wet						
Copper	ND	2.5	mg/kg wet						
Lead	ND	5.0	mg/kg wet						
Nickel	ND	2.5	mg/kg wet						
Selenium	ND	5.0	mg/kg wet						
Silver	ND	0.50	mg/kg wet						
Thallium	ND	0.25	mg/kg wet						
Zinc	ND	2.5	mg/kg wet						
LCS									
Antimony	98.8	17.6	mg/kg wet	121.0	82	80-120			
Arsenic	94.3	8.8	mg/kg wet	109.0	86	80-120			
Beryllium	80.0	0.37	mg/kg wet	92.10	87	80-120			
Cadmium	103	1.76	mg/kg wet	110.0	93	80-120			
Chromium	83.7	3.5	mg/kg wet	93.40	90	80-120			
Copper	69.2	8.8	mg/kg wet	74.70	93	80-120			
Lead	149	17.6	mg/kg wet	152.0	98	80-120			
Nickel	104	8.8	mg/kg wet	109.0	96	80-120			
Selenium	187	17.6	mg/kg wet	207.0	90	80-120			
Silver	45.4	1.76	mg/kg wet	51.90	88	80-120			
Thallium	165	43.4	mg/kg wet	171.0	96	80-120			
Zinc	257	8.8	mg/kg wet	299.0	86	80-120			
LCS Dup									
Antimony	118	18.2	mg/kg wet	121.0	98	80-120	18	20	
Arsenic	95.9	9.1	mg/kg wet	109.0	88	80-120	2	20	
Beryllium	79.4	0.38	mg/kg wet	92.10	86	80-120	0.8	20	
Cadmium	100	1.83	mg/kg wet	110.0	91	80-120	2	20	
Chromium	85.1	3.6	mg/kg wet	93.40	91	80-120	2	20	
Copper	68.9	9.1	mg/kg wet	74.70	92	80-120	0.5	20	
Lead	148	18.2	mg/kg wet	152.0	98	80-120	0.4	20	
Nickel	104	9.1	mg/kg wet	109.0	95	80-120	0.7	20	
Selenium	188	18.2	mg/kg wet	207.0	91	80-120	0.9	20	
Silver	46.5	1.83	mg/kg wet	51.90	90	80-120	2	20	
Thallium	160	45.0	mg/kg wet	171.0	93	80-120	3	20	
Zinc	253	9.1	mg/kg wet	299.0	85	80-120	2	20	

Batcii CL00002 - 7471

Blank

185 Frances Avenue, Cranston, RI 02910-2211

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0.205

0.034

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

75-125

35

10



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Mercury

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
			3050B/	6000/7000 Т	otal Meta	als					
Batch CL00602 - 747	71A										
Mercury		ND	0.033	mg/kg wet							
LCS											
Mercury		17.5	1.62	mg/kg wet	16.30		107	80-120			
LCS Dup											
Mercury		18.4	1.62	mg/kg wet	16.30		113	80-120	5	20	
Duplicate	Source: 1012057-01										
Mercury		ND	0.030	mg/kg dry		ND				35	
Matrix Spike	Source: 1012057-01										
Mercury		0.185	0.033	mg/kg dry	0.1974	ND	94	75-125			
Matrix Snike Dun	Source: 1012057-01										

mg/kg dry 5035/8260B Volatile Organic Compounds / Methanol

0.2071

Batch CL00619 - 5035				
Blank				
1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet	
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet	
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet	
1,1,2-Trichloroethane	ND	0.0500	mg/kg wet	
1,1-Dichloroethane	ND	0.0500	mg/kg wet	
1,1-Dichloroethene	ND	0.0500	mg/kg wet	
1,1-Dichloropropene	ND	0.0500	mg/kg wet	
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet	
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet	
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet	
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet	
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet	
1,2-Dibromoethane	ND	0.0500	mg/kg wet	
1,2-Dichlorobenzene	ND	0.0500	mg/kg wet	
1,2-Dichloroethane	ND	0.0500	mg/kg wet	
1,2-Dichloropropane	ND	0.0500	mg/kg wet	
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet	
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet	
1,3-Dichloropropane	ND	0.0500	mg/kg wet	
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet	
1,4-Dioxane - Screen	ND	5.00	mg/kg wet	
1-Chlorohexane	ND	0.0500	mg/kg wet	
2,2-Dichloropropane	ND	0.100	mg/kg wet	
2-Butanone	ND	1.25	mg/kg wet	
2-Chlorotoluene	ND	0.0500	mg/kg wet	
2-Hexanone	ND	0.500	mg/kg wet	
4-Chlorotoluene	ND	0.0500	mg/kg wet	
4-Isopropyltoluene	ND	0.0500	mg/kg wet	
4-Methyl-2-Pentanone	ND	0.500	mg/kg wet	

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181 Dependability

Quality

Fax: 401-461-4486 Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

5035/8260B Volatile Organic Compounds / Methanol

Batch CL00619 - 5035							
Acetone	ND	1.25	mg/kg wet				
Benzene	ND	0.0500	mg/kg wet				
Bromobenzene	ND	0.0500	mg/kg wet				
Bromochloromethane	ND	0.0500	mg/kg wet				
Bromodichloromethane	ND	0.0500	mg/kg wet				
Bromoform	ND	0.0500	mg/kg wet				
Bromomethane	ND	0.100	mg/kg wet				
Carbon Disulfide	ND	0.0500	mg/kg wet				
Carbon Tetrachloride	ND	0.0500	mg/kg wet				
Chlorobenzene	ND	0.0500	mg/kg wet				
Chloroethane	ND	0.100	mg/kg wet				
Chloroform	ND	0.0500	mg/kg wet				
hloromethane	ND	0.100	mg/kg wet				
is-1,2-Dichloroethene	ND	0.0500	mg/kg wet				
is-1,3-Dichloropropene	ND	0.0500	mg/kg wet				
bibromochloromethane	ND	0.0500	mg/kg wet				
bibromomethane	ND	0.0500	mg/kg wet				
oichlorodifluoromethane	ND	0.0500	mg/kg wet				
eiethyl Ether	ND	0.0500	mg/kg wet				
i-isopropyl ether	ND	0.0500	mg/kg wet				
thyl tertiary-butyl ether	ND	0.0500	mg/kg wet				
thylbenzene	ND	0.0500	mg/kg wet				
exachlorobutadiene	ND	0.0500	mg/kg wet				
sopropylbenzene	ND	0.0500	mg/kg wet				
ethyl tert-Butyl Ether	ND	0.0500	mg/kg wet				
lethylene Chloride	ND	0.250	mg/kg wet				
aphthalene	ND	0.0500	mg/kg wet				
-Butylbenzene	ND	0.0500	mg/kg wet				
-Propylbenzene	ND	0.0500	mg/kg wet				
ec-Butylbenzene	ND	0.0500	mg/kg wet				
tyrene	ND	0.0500	mg/kg wet				
ert-Butylbenzene	ND	0.0500	mg/kg wet				
ertiary-amyl methyl ether	ND	0.0500	mg/kg wet				
etrachloroethene	ND	0.0500	mg/kg wet				
etrahydrofuran	ND	0.500	mg/kg wet				
oluene	ND	0.0500	mg/kg wet				
rans-1,2-Dichloroethene	ND	0.0500	mg/kg wet				
rans-1,3-Dichloropropene	ND	0.0500	mg/kg wet				
richloroethene	ND	0.0500	mg/kg wet				
inyl Acetate	ND	0.250	mg/kg wet				
inyl Chloride	ND	0.0500	mg/kg wet				
ylene O	ND	0.0500	mg/kg wet				
(ylene P,M	ND	0.100	mg/kg wet				
Surrogate: 1,2-Dichloroethane-d4	2.20		mg/kg wet	2.500	88	70-130	
Surrogate: 4-Bromofluorobenzene	2.25		mg/kg wet	2.500	90	70-130	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD		
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier	

5	0	13	5	/	8	2	6	0	B	٧	o'	la	ti	le	C	r	ga	ın	ic	C	on	np	0	u	nc	ds ,	/ I	М	et	:ha	and	٥l	
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Batch CL00619 - 5035							
Surrogate: Dibromofluoromethane	2.27		mg/kg wet	2.500	91	70-130	
Surrogate: Toluene-d8	2.32		mg/kg wet	2.500	93	70-130	
LCS							
1,1,1,2-Tetrachloroethane	2.43	0.100	mg/kg wet	2.500	97	70-130	
,1,1-Trichloroethane	2.41	0.0500	mg/kg wet	2.500	96	70-130	
,1,2,2-Tetrachloroethane	2.45	0.0500	mg/kg wet	2.500	98	70-130	
,1,2-Trichloroethane	2.24	0.0500	mg/kg wet	2.500	90	70-130	
,1-Dichloroethane	2.37	0.0500	mg/kg wet	2.500	95	70-130	
,1-Dichloroethene	2.66	0.0500	mg/kg wet	2.500	106	70-130	
1-Dichloropropene	2.63	0.0500	mg/kg wet	2.500	105	70-130	
2,3-Trichlorobenzene	2.28	0.0500	mg/kg wet	2.500	91	70-130	
2,3-Trichloropropane	2.60	0.0500	mg/kg wet	2.500	104	70-130	
2,4-Trichlorobenzene	2.44	0.0500	mg/kg wet	2.500	97	70-130	
2,4-Trimethylbenzene	2.47	0.0500	mg/kg wet	2.500	99	70-130	
2-Dibromo-3-Chloropropane	2.68	0.300	mg/kg wet	2.500	107	70-130	
,2-Dibromoethane	2.47	0.0500	mg/kg wet	2.500	99	70-130	
2-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130	
2-Dichloroethane	2.43	0.0500	mg/kg wet	2.500	97	70-130	
2-Dichloropropane	2.62	0.0500	mg/kg wet	2.500	105	70-130	
3,5-Trimethylbenzene	2.50	0.0500	mg/kg wet	2.500	100	70-130	
3-Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130	
3-Dichloropropane	2.49	0.0500	mg/kg wet	2.500	99	70-130	
-Dichlorobenzene	2.40	0.0500	mg/kg wet	2.500	96	70-130	
1-Dioxane - Screen	58.2	5.00	mg/kg wet	50.00	116	44-241	
Chlorohexane	2.55	0.0500	mg/kg wet	2.500	102	70-130	
2-Dichloropropane	2.55	0.100	mg/kg wet	2.500	102	70-130	
Butanone	12.3	1.25	mg/kg wet	12.50	98	70-130	
Chlorotoluene	2.31	0.0500	mg/kg wet	2.500	92	70-130	
Hexanone	13.2	0.500	mg/kg wet	12.50	106	70-130	
Chlorotoluene	2.38	0.0500	mg/kg wet	2.500	95	70-130	
Isopropyltoluene	2.29	0.0500	mg/kg wet	2.500	92	70-130	
Methyl-2-Pentanone	13.9	0.500	mg/kg wet	12.50	111	70-130	
cetone	9.52	1.25	mg/kg wet	12.50	76	70-130	
enzene	2.51	0.0500	mg/kg wet	2.500	100	70-130	
omobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130	
omochloromethane	2.58	0.0500	mg/kg wet	2.500	103	70-130	
omodichloromethane	2.43	0.0500	mg/kg wet	2.500	97	70-130	
omoform	2.56	0.0500	mg/kg wet	2.500	102	70-130	
omomethane	3.05	0.100	mg/kg wet	2.500	122	70-130	
arbon Disulfide	2.18	0.0500	mg/kg wet	2.500	87	70-130	
arbon Tetrachloride	2.59	0.0500	mg/kg wet	2.500	103	70-130	
hlorobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130	
hloroethane	3.00	0.100	mg/kg wet	2.500	120	70-130	
hloroform	2.37	0.0500	mg/kg wet	2.500	95	70-130	
	2.5,		J, .g				

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

	5035/	8260B Volati	ile Organic C	ompounds / I	Methanol				
Batch CL00619 - 5035									
Chloromethane	2.40	0.100	mg/kg wet	2.500	96	70-130			
cis-1,2-Dichloroethene	2.67	0.0500	mg/kg wet	2.500	107	70-130			
is-1,3-Dichloropropene	2.51	0.0500	mg/kg wet	2.500	100	70-130			
Dibromochloromethane	2.56	0.0500	mg/kg wet	2.500	102	70-130			
Dibromomethane	2.37	0.0500	mg/kg wet	2.500	95	70-130			
Dichlorodifluoromethane	2.72	0.0500	mg/kg wet	2.500	109	70-130			
Diethyl Ether	2.41	0.0500	mg/kg wet	2.500	96	70-130			
Di-isopropyl ether	2.61	0.0500	mg/kg wet	2.500	104	70-130			
thyl tertiary-butyl ether	2.49	0.0500	mg/kg wet	2.500	100	70-130			
thylbenzene	2.52	0.0500	mg/kg wet	2.500	101	70-130			
lexachlorobutadiene	2.51	0.0500	mg/kg wet	2.500	100	70-130			
sopropylbenzene	2.04	0.0500	mg/kg wet	2.500	82	70-130			
Methyl tert-Butyl Ether	2.53	0.0500	mg/kg wet	2.500	101	70-130			
Methylene Chloride	2.69	0.250	mg/kg wet	2.500	108	70-130			
Naphthalene	2.26	0.0500	mg/kg wet	2.500	90	70-130			
n-Butylbenzene	2.62	0.0500	mg/kg wet	2.500	105	70-130			
n-Propylbenzene	2.56	0.0500	mg/kg wet	2.500	102	70-130			
ec-Butylbenzene	2.50	0.0500	mg/kg wet	2.500	100	70-130			
tyrene	2.46	0.0500	mg/kg wet	2.500	99	70-130			
ert-Butylbenzene	2.39	0.0500	mg/kg wet	2.500	96	70-130			
Fertiary-amyl methyl ether	2.57	0.0500	mg/kg wet	2.500	103	70-130			
Fetrachloroethene	2.37	0.0500	mg/kg wet	2.500	95	70-130			
Fetrahydrofuran	2.45	0.500	mg/kg wet	2.500	98	70-130			
Foluene	2.48	0.0500	mg/kg wet	2.500	99	70-130			
rans-1,2-Dichloroethene	2.33	0.0500	mg/kg wet	2.500	93	70-130			
rans-1,3-Dichloropropene	2.34	0.0500	mg/kg wet	2.500	94	70-130			
Frichloroethene	2.54	0.0500	mg/kg wet	2.500	102	70-130			
inyl Acetate	2.86	0.250	mg/kg wet	2.500	114	70-130			
/inyl Chloride	2.82	0.0500	mg/kg wet	2.500	113	70-130			
Kylene O	2.43	0.0500	mg/kg wet	2.500	97	70-130			
(ylene P,M	5.03	0.100	mg/kg wet	5.000	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.30		mg/kg wet	2.500	92	70-130			
Surrogate: 4-Bromofluorobenzene	2.33		mg/kg wet	2.500	93	70-130			
Surrogate: Dibromofluoromethane	2.31		mg/kg wet	2.500	92	70-130			
Surrogate: Toluene-d8	2.42		mg/kg wet	2.500	97	70-130			
LCS Dup									
,1,1,2-Tetrachloroethane	2.45	0.100	mg/kg wet	2.500	98	70-130	0.7	25	
,1,1-Trichloroethane	2.42	0.0500	mg/kg wet	2.500	97	70-130	0.5	25	
.,1,2,2-Tetrachloroethane	2.53	0.0500	mg/kg wet	2.500	101	70-130	4	25	
.,1,2-Trichloroethane	2.28	0.0500	mg/kg wet	2.500	91	70-130	2	25	
,1-Dichloroethane	2.36	0.0500	mg/kg wet	2.500	95	70-130	0.4	25	
,1-Dichloroethene	2.76	0.0500	mg/kg wet	2.500	110	70-130	4	25	
,1-Dichloropropene	2.68	0.0500	mg/kg wet	2.500	107	70-130	2	25	
,2,3-Trichlorobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130	6	25	
1,2,3-Trichloropropane	2.72	0.0500	mg/kg wet	2.500	109	70-130	5	25	
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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00619 - 5035

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

5035/8260B	Volatile	Organic	Compound:	s /	Methano	l
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Batch CL00619 - 5035									
1,2,4-Trichlorobenzene	2.54	0.0500	mg/kg wet	2.500	102	70-130	4	25	
1,2,4-Trimethylbenzene	2.51	0.0500	mg/kg wet	2.500	100	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.83	0.300	mg/kg wet	2.500	113	70-130	5	25	
1,2-Dibromoethane	2.49	0.0500	mg/kg wet	2.500	100	70-130	1	25	
1,2-Dichlorobenzene	2.49	0.0500	mg/kg wet	2.500	100	70-130	3	25	
1,2-Dichloroethane	2.46	0.0500	mg/kg wet	2.500	99	70-130	1	25	
1,2-Dichloropropane	2.58	0.0500	mg/kg wet	2.500	103	70-130	1	25	
1,3,5-Trimethylbenzene	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
1,3-Dichlorobenzene	2.49	0.0500	mg/kg wet	2.500	99	70-130	2	25	
,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
,4-Dichlorobenzene	2.40	0.0500	mg/kg wet	2.500	96	70-130	0.1	25	
,4-Dioxane - Screen	61.7	5.00	mg/kg wet	50.00	123	44-241	6	200	
-Chlorohexane	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
,2-Dichloropropane	2.48	0.100	mg/kg wet	2.500	99	70-130	3	25	
-Butanone	13.0	1.25	mg/kg wet	12.50	104	70-130	6	25	
-Chlorotoluene	2.48	0.0500	mg/kg wet	2.500	99	70-130	7	25	
-Hexanone	14.0	0.500	mg/kg wet	12.50	112	70-130	5	25	
-Chlorotoluene	2.42	0.0500	mg/kg wet	2.500	97	70-130	2	25	
-Isopropyltoluene	2.33	0.0500	mg/kg wet	2.500	93	70-130	2	25	
-Methyl-2-Pentanone	14.4	0.500	mg/kg wet	12.50	115	70-130	4	25	
cetone	12.1	1.25	mg/kg wet	12.50	97	70-130	24	25	
enzene	2.49	0.0500	mg/kg wet	2.500	100	70-130	0.8	25	
romobenzene	2.48	0.0500	mg/kg wet	2.500	99	70-130	2	25	
romochloromethane	2.57	0.0500	mg/kg wet	2.500	103	70-130	0.2	25	
romodichloromethane	2.44	0.0500	mg/kg wet	2.500	98	70-130	0.5	25	
romoform	2.66	0.0500	mg/kg wet	2.500	106	70-130	4	25	
romomethane	2.87	0.100	mg/kg wet	2.500	115	70-130	6	25	
Carbon Disulfide	2.72	0.0500	mg/kg wet	2.500	109	70-130	22	25	
Carbon Tetrachloride	2.54	0.0500	mg/kg wet	2.500	102	70-130	2	25	
hlorobenzene	2.46	0.0500	mg/kg wet	2.500	99	70-130	2	25	
Chloroethane	2.89	0.100	mg/kg wet	2.500	116	70-130	4	25	
Chloroform	2.37	0.0500	mg/kg wet	2.500	95	70-130	0.3	25	
Chloromethane	2.44	0.100	mg/kg wet	2.500	98	70-130	2	25	
is-1,2-Dichloroethene	2.64	0.0500	mg/kg wet	2.500	106	70-130	1	25	
is-1,3-Dichloropropene	2.58	0.0500	mg/kg wet	2.500	103	70-130	3	25	
Dibromochloromethane	2.56	0.0500	mg/kg wet	2.500	102	70-130	0.08	25	
bibromomethane	2.39	0.0500	mg/kg wet	2.500	96	70-130	1	25	
ichlorodifluoromethane	2.77	0.0500	mg/kg wet	2.500	111	70-130	2	25	
iethyl Ether	2.50	0.0500	mg/kg wet	2.500	100	70-130	4	25	
i-isopropyl ether	2.61	0.0500	mg/kg wet	2.500	105	70-130	0.3	25	
thyl tertiary-butyl ether	2.54	0.0500	mg/kg wet	2.500	102	70-130	2	25	
thylbenzene	2.54	0.0500	mg/kg wet	2.500	102	70-130	0.6	25	
lexachlorobutadiene	2.64	0.0500	mg/kg wet	2.500	106	70-130	5	25	
sopropylbenzene	2.06	0.0500	mg/kg wet	2.500	82	70-130	0.7	25	
Methyl tert-Butyl Ether	2.61	0.0500	mg/kg wet	2.500	105	70-130	3	25	

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The Microbiology Division of Thielsch Engineering, Inc.

%REC



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

Spike

Source

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifi
	5035/	8260B Volati	le Organic C	ompound	ds / Metha	anol				
satch CL00619 - 5035										
Nethylene Chloride	2.68	0.250	mg/kg wet	2.500		107	70-130	0.7	25	
laphthalene	2.51	0.0500	mg/kg wet	2.500		100	70-130	11	25	
a-Butylbenzene	2.72	0.0500	mg/kg wet	2.500		109	70-130	4	25	
a-Propylbenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130	3	25	
ec-Butylbenzene	2.54	0.0500	mg/kg wet	2.500		102	70-130	2	25	
Styrene	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
ert-Butylbenzene	2.42	0.0500	mg/kg wet	2.500		97	70-130	1	25	
ertiary-amyl methyl ether	2.60	0.0500	mg/kg wet	2.500		104	70-130	1	25	
etrachloroethene	2.38	0.0500	mg/kg wet	2.500		95	70-130	0.5	25	
etrahydrofuran	2.47	0.500	mg/kg wet	2.500		99	70-130	0.7	25	
oluene	2.49	0.0500	mg/kg wet	2.500		100	70-130	0.2	25	
rans-1,2-Dichloroethene	2.33	0.0500	mg/kg wet	2.500		93	70-130	0.09	25	
rans-1,3-Dichloropropene	2.39	0.0500	mg/kg wet	2.500		95	70-130	2	25	
richloroethene	2.55	0.0500	mg/kg wet	2.500		102	70-130	0.6	25	
inyl Acetate	2.85	0.250	mg/kg wet	2.500		114	70-130	0.2	25	
inyl Chloride	2.84	0.0500	mg/kg wet	2.500		113	70-130	0.5	25	
ylene O	2.45	0.0500	mg/kg wet	2.500		98	70-130	1	25	
ylene P,M	4.99	0.100	mg/kg wet	5.000		100	70-130	0.8	25	
urrogate: 1,2-Dichloroethane-d4	2.33		mg/kg wet	2.500		93	70-130			
urrogate: 4-Bromofluorobenzene	2.34		mg/kg wet	2.500		94	70-130			
Currogate: Dibromofluoromethane	2.28		mg/kg wet	2.500		91	70-130			
Surrogate: Toluene-d8	2.42		mg/kg wet	2.500		97	70-130			
Matrix Spike Source: 1012057-01										
,1,1,2-Tetrachloroethane	1.89	0.0778	mg/kg dry	1.945	ND	97	70-130			
,1,1-Trichloroethane	1.99	0.0389	mg/kg dry	1.945	ND	102	70-130			
,1,2,2-Tetrachloroethane	2.05	0.0389	mg/kg dry	1.945	ND	106	70-130			
,1,2-Trichloroethane	1.88	0.0389	mg/kg dry	1.945	ND	96	70-130			
,1-Dichloroethane	1.99	0.0389	mg/kg dry	1.945	ND	102	70-130			
,1-Dichloroethene	2.33	0.0389	mg/kg dry	1.945	ND	120	70-130			
,1-Dichloropropene	2.26	0.0389	mg/kg dry	1.945	ND	116	70-130			
,2,3-Trichlorobenzene	1.67	0.0389	mg/kg dry	1.945	ND	86	70-130			
,2,3-Trichloropropane	2.11	0.0389	mg/kg dry	1.945	ND	108	70-130			
,2,4-Trichlorobenzene	1.80	0.0389	mg/kg dry	1.945	ND	93	70-130			
,2,4-Trimethylbenzene	2.02	0.0389	mg/kg dry	1.945	ND	104	70-130			
,2-Dibromo-3-Chloropropane	2.03	0.233	mg/kg dry	1.945	ND	105	70-130			
,2-Dibromoethane	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130			
,2-Dichlorobenzene	1.93	0.0389	mg/kg dry	1.945	ND	99	70-130			
,2-Dichloroethane				1.945	ND	99	70-130			
	1.93	0.0389	ma/ka drv				100			
	1.93 2.21	0.0389 0.0389	mg/kg dry ma/ka drv			114	70-130			
,2-Dichloropropane	2.21	0.0389	mg/kg dry	1.945	ND	114 105	70-130 70-130			
,2-Dichloropropane ,3,5-Trimethylbenzene	2.21 2.05	0.0389 0.0389	mg/kg dry mg/kg dry	1.945 1.945	ND ND	105	70-130			
,2-Dichloropropane ,3,5-Trimethylbenzene ,3-Dichlorobenzene	2.21 2.05 1.94	0.0389 0.0389 0.0389	mg/kg dry mg/kg dry mg/kg dry	1.945 1.945 1.945	ND ND ND	105 100	70-130 70-130			
,2-Dichloropropane ,3,5-Trimethylbenzene ,3-Dichlorobenzene ,3-Dichloropropane	2.21 2.05 1.94 2.01	0.0389 0.0389 0.0389 0.0389	mg/kg dry mg/kg dry mg/kg dry mg/kg dry	1.945 1.945 1.945 1.945	ND ND ND ND	105 100 103	70-130 70-130 70-130			
,2-Dichloropropane ,3,5-Trimethylbenzene	2.21 2.05 1.94	0.0389 0.0389 0.0389	mg/kg dry mg/kg dry mg/kg dry	1.945 1.945 1.945	ND ND ND	105 100	70-130 70-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

E00E/0060B				
5035/8260B	Volatile	Organic	Compounds	/ Methanol

-Dichloropropane 1.78 0.0778 mg/kg dry 1.945 ND 91 70-130
utanone 10.3 0.973 mg/kg dry 9.723 ND 106 70-130
thlorotoluene 2.15 0.0389 mg/kg dry 1.945 ND 110 70-130
lexanone 10.6 0.389 mg/kg dry 9.723 ND 109 70-130
thlorotoluene 1.93 0.0389 mg/kg dry 1.945 ND 99 70-130
sopropyltoluene 1.88 0.0389 mg/kg dry 1.945 ND 97 70-130
lethyl-2-Pentanone 11.8 0.389 mg/kg dry 9.723 ND 121 70-130
tone 7.73 0.973 mg/kg dry 9.723 ND 80 70-130
nzene 2.14 0.0389 mg/kg dry 1.945 ND 110 70-130
mobenzene 1.97 0.0389 mg/kg dry 1.945 ND 102 70-130
mochloromethane 2.19 0.0389 mg/kg dry 1.945 ND 112 70-130
modichloromethane 1.94 0.0389 mg/kg dry 1.945 ND 100 70-130
moform 1.97 0.0389 mg/kg dry 1.945 ND 101 70-130
momethane 1.96 0.0778 mg/kg dry 1.945 ND 101 70-130
bon Disulfide 2.12 0.0389 mg/kg dry 1.945 ND 109 70-130
oon Tetrachloride 1.98 0.0389 mg/kg dry 1.945 ND 102 70-130
orobenzene 1.97 0.0389 mg/kg dry 1.945 ND 102 70-130
oroethane 2.36 0.0778 mg/kg dry 1.945 ND 121 70-130
oroform 1.94 0.0389 mg/kg dry 1.945 ND 100 70-130
oromethane 2.13 0.0778 mg/kg dry 1.945 ND 109 70-130
1,2-Dichloroethene 2.21 0.0389 mg/kg dry 1.945 ND 113 70-130
1,3-Dichloropropene 2.07 0.0389 mg/kg dry 1.945 ND 107 70-130
omochloromethane 1.95 0.0389 mg/kg dry 1.945 ND 101 70-130
omomethane 1.93 0.0389 mg/kg dry 1.945 ND 99 70-130
lorodifluoromethane 2.32 0.0389 mg/kg dry 1.945 ND 119 70-130
hyl Ether 2.06 0.0389 mg/kg dry 1.945 ND 106 70-130
sopropyl ether 2.22 0.0389 mg/kg dry 1.945 ND 114 70-130
/l tertiary-butyl ether 2.09 0.0389 mg/kg dry 1.945 ND 107 70-130
ylbenzene 2.04 0.0389 mg/kg dry 1.945 ND 105 70-130
cachlorobutadiene 1.77 0.0389 mg/kg dry 1.945 ND 91 70-130
propylbenzene 1.73 0.0389 mg/kg dry 1.945 ND 89 70-130
hyl tert-Butyl Ether 2.09 0.0389 mg/kg dry 1.945 ND 107 70-130
hylene Chloride 2.29 0.195 mg/kg dry 1.945 ND 118 70-130
hthalene 1.55 0.0389 mg/kg dry 1.945 ND 80 70-130
utylbenzene 2.09 0.0389 mg/kg dry 1.945 ND 108 70-130
ropylbenzene 1.96 0.0389 mg/kg dry 1.945 ND 101 70-130
Butylbenzene 2.07 0.0389 mg/kg dry 1.945 ND 107 70-130
rene 1.98 0.0389 mg/kg dry 1.945 ND 102 70-130
-Butylbenzene 1.94 0.0389 mg/kg dry 1.945 ND 100 70-130
tiary-amyl methyl ether 2.12 0.0389 mg/kg dry 1.945 ND 109 70-130
rachloroethene 1.93 0.0389 mg/kg dry 1.945 ND 99 70-130
rahydrofuran 2.15 0.389 mg/kg dry 1.945 ND 111 70-130
uene 2.09 0.0389 mg/kg dry 1.945 ND 107 70-130
ns-1,2-Dichloroethene 1.97 0.0389 mg/kg dry 1.945 ND 101 70-130
ns-1,3-Dichloropropene 1.87 0.0389 mg/kg dry 1.945 ND 96 70-130

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CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00619 - 5035

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

5035/8260B	Volatile	Organic	Compounds	/ Methanol
3033/02000	VOIGUIC	Organic	Compounds	, incuitation

Daten C200019 - 3033										
Trichloroethene	2.13	0.0389	mg/kg dry	1.945	ND	110	70-130			
Vinyl Acetate	2.29	0.195	mg/kg dry	1.945	ND	118	70-130			
Vinyl Chloride	2.50	0.0389	mg/kg dry	1.945	ND	129	70-130			
Xylene O	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130			
Kylene P,M	4.04	0.0778	mg/kg dry	3.889	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	1.98		mg/kg dry	1.945		102	70-130			
Surrogate: 4-Bromofluorobenzene	2.03		mg/kg dry	1.945		105	70-130			
Surrogate: Dibromofluoromethane	2.06		mg/kg dry	1.945		106	70-130			
Surrogate: Toluene-d8	2.15		mg/kg dry	1.945		111	70-130			
Matrix Spike Dup Source: 1012057-01										
.,1,1,2-Tetrachloroethane	1.84	0.0778	mg/kg dry	1.945	ND	95	70-130	2	30	
1,1,1-Trichloroethane	1.94	0.0389	mg/kg dry	1.945	ND	100	70-130	3	30	
.,1,2,2-Tetrachloroethane	2.00	0.0389	mg/kg dry	1.945	ND	103	70-130	2	30	
.,1,2-Trichloroethane	1.85	0.0389	mg/kg dry	1.945	ND	95	70-130	2	30	
,1-Dichloroethane	1.96	0.0389	mg/kg dry	1.945	ND	101	70-130	1	30	
,1-Dichloroethene	2.24	0.0389	mg/kg dry	1.945	ND	115	70-130	4	30	
,1-Dichloropropene	2.09	0.0389	mg/kg dry	1.945	ND	108	70-130	8	30	
,2,3-Trichlorobenzene	1.77	0.0389	mg/kg dry	1.945	ND	91	70-130	6	30	
,2,3-Trichloropropane	2.12	0.0389	mg/kg dry	1.945	ND	109	70-130	0.4	30	
,2,4-Trichlorobenzene	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	5	30	
,2,4-Trimethylbenzene	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130	3	30	
,2-Dibromo-3-Chloropropane	2.03	0.233	mg/kg dry	1.945	ND	104	70-130	0.3	30	
,2-Dibromoethane	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	3	30	
,2-Dichlorobenzene	1.89	0.0389	mg/kg dry	1.945	ND	97	70-130	2	30	
,2-Dichloroethane	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	2	30	
,,2-Dichloropropane	2.12	0.0389	mg/kg dry	1.945	ND	109	70-130	4	30	
,3,5-Trimethylbenzene	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130	4	30	
.,3-Dichlorobenzene	1.87	0.0389	mg/kg dry	1.945	ND	96	70-130	4	30	
1,3-Dichloropropane	1.95	0.0389	mg/kg dry	1.945	ND	100	70-130	3	30	
,4-Dichlorobenzene	1.84	0.0389	mg/kg dry	1.945	ND	95	70-130	3	30	
.,4-Dioxane - Screen	44.9	3.89	mg/kg dry	38.89	ND	115	44-241	19	200	
-Chlorohexane	1.96	0.0389	mg/kg dry	1.945	ND	101	70-130	7	30	
2,2-Dichloropropane	1.69	0.0778	mg/kg dry	1.945	ND	87	70-130	5	30	
!-Butanone	10.1	0.973	mg/kg dry	9.723	ND	103	70-130	2	30	
2-Chlorotoluene	1.88	0.0389	mg/kg dry	1.945	ND	97	70-130	13	30	
!-Hexanone	10.4	0.389	mg/kg dry	9.723	ND	107	70-130	2	30	
I-Chlorotoluene	1.87	0.0389	mg/kg dry	1.945	ND	96	70-130	3	30	
l-Isopropyltoluene	1.83	0.0389	mg/kg dry	1.945	ND	94	70-130	3	30	
-Nethyl-2-Pentanone	11.5	0.389	mg/kg dry	9.723	ND	119	70-130	2	30	
Acetone	7.71	0.973	mg/kg dry	9.723	ND	79	70-130	0.2	30	
Benzene	2.07	0.0389	mg/kg dry	1.945	ND	106	70-130	3	30	
Bromobenzene	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	4	30	
Bromochloromethane	2.12	0.0389	mg/kg dry	1.945	ND	109	70-130	3	30	
oromocnioromethane Bromodichloromethane	1.91	0.0389		1.945	ND ND	98	70-130 70-130	2	30	
			mg/kg dry					3	30	
Bromoform	1.91	0.0389	mg/kg dry	1.945	ND	98	70-130	3	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

5035/8260B	Volatile	Organic	Compound:	s /	Methano	l
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Batch CL00619 - 5035										
Bromomethane	2.06	0.0778	mg/kg dry	1.945	ND	106	70-130	5	30	
Carbon Disulfide	2.13	0.0389	mg/kg dry	1.945	ND	109	70-130	0.4	30	
Carbon Tetrachloride	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130	0.4	30	
Chlorobenzene	1.89	0.0389	mg/kg dry	1.945	ND	97	70-130	4	30	
Chloroethane	2.15	0.0778	mg/kg dry	1.945	ND	111	70-130	9	30	
Chloroform	1.89	0.0389	mg/kg dry	1.945	ND	97	70-130	2	30	
Chloromethane	2.09	0.0778	mg/kg dry	1.945	ND	107	70-130	2	30	
cis-1,2-Dichloroethene	2.17	0.0389	mg/kg dry	1.945	ND	111	70-130	2	30	
cis-1,3-Dichloropropene	2.03	0.0389	mg/kg dry	1.945	ND	105	70-130	2	30	
Dibromochloromethane	1.90	0.0389	mg/kg dry	1.945	ND	97	70-130	3	30	
Dibromomethane	1.88	0.0389	mg/kg dry	1.945	ND	97	70-130	3	30	
Dichlorodifluoromethane	2.23	0.0389	mg/kg dry	1.945	ND	115	70-130	4	30	
Diethyl Ether	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	1	30	
Di-isopropyl ether	2.16	0.0389	mg/kg dry	1.945	ND	111	70-130	3	30	
Ethyl tertiary-butyl ether	2.03	0.0389	mg/kg dry	1.945	ND	104	70-130	3	30	
Ethylbenzene	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130	3	30	
Hexachlorobutadiene	1.87	0.0389	mg/kg dry	1.945	ND	96	70-130	5	30	
Isopropylbenzene	1.66	0.0389	mg/kg dry	1.945	ND	85	70-130	4	30	
Methyl tert-Butyl Ether	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	2	30	
Methylene Chloride	2.22	0.195	mg/kg dry	1.945	ND	114	70-130	3	30	
Naphthalene	1.77	0.0389	mg/kg dry	1.945	ND	91	70-130	13	30	
n-Butylbenzene	2.11	0.0389	mg/kg dry	1.945	ND	108	70-130	0.7	30	
n-Propylbenzene	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	4	30	
sec-Butylbenzene	2.03	0.0389	mg/kg dry	1.945	ND	105	70-130	2	30	
Styrene	1.95	0.0389	mg/kg dry	1.945	ND	100	70-130	2	30	
tert-Butylbenzene	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	2	30	
Tertiary-amyl methyl ether	2.08	0.0389	mg/kg dry	1.945	ND	107	70-130	2	30	
Tetrachloroethene	1.82	0.0389	mg/kg dry	1.945	ND	94	70-130	6	30	
Tetrahydrofuran	2.14	0.389	mg/kg dry	1.945	ND	110	70-130	0.4	30	
Toluene	2.02	0.0389	mg/kg dry	1.945	ND	104	70-130	3	30	
trans-1,2-Dichloroethene	1.91	0.0389	mg/kg dry	1.945	ND	98	70-130	3	30	
trans-1,3-Dichloropropene	1.81	0.0389	mg/kg dry	1.945	ND	93	70-130	3	30	
Trichloroethene	2.08	0.0389	mg/kg dry	1.945	ND	107	70-130	3	30	
Vinyl Acetate	2.25	0.195	mg/kg dry	1.945	ND	116	70-130	2	30	
Vinyl Chloride	2.40	0.0389	mg/kg dry	1.945	ND	123	70-130	4	30	
Xylene O	1.91	0.0389	mg/kg dry	1.945	ND	98	70-130	4	30	
Xylene P,M	3.86	0.0778	mg/kg dry	3.889	ND	99	70-130	4	30	
Surrogate: 1,2-Dichloroethane-d4	1.94		mg/kg dry	1.945		100	70-130			
Surrogate: 4-Bromofluorobenzene	1.98		mg/kg dry	1.945		102	70-130			
Surrogate: Dibromofluoromethane	2.01		mg/kg dry	1.945		103	70-130			
Surrogate: Toluene-d8	2.08		mg/kg dry	1.945		107	70-130			

Batch CL00819 - 3546

Blank

185 Frances Avenue, Cranston, RI 02910-2211

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Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.

%REC



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

LCS Dup Decane (C10)

Docosane (C22)

Dodecane (C12)

Eicosane (C20)

Hexacosane (C26)

Hexadecane (C16)

Nonadecane (C19)

Octacosane (C28)

Octadecane (C18)

Tetracosane (C24)

Nonane (C9)

ESS Laboratory Work Order: 1012057 Client Project ID: Lincoln Lace

Quality Control Data

Spike

Source

Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier	
8100M Total Petroleum Hydrocarbons											
Batch CL00819 - 3546											
Decane (C10)	ND	0.2	mg/kg wet								
Docosane (C22)	ND	0.2	mg/kg wet								
Dodecane (C12)	ND	0.2	mg/kg wet								
Eicosane (C20)	ND	0.2	mg/kg wet								
Hexacosane (C26)	ND	0.2	mg/kg wet								
Hexadecane (C16)	ND	0.2	mg/kg wet								
Nonadecane (C19)	ND	0.2	mg/kg wet								
Nonane (C9)	ND	0.2	mg/kg wet								
Octacosane (C28)	ND	0.2	mg/kg wet								
Octadecane (C18)	ND	0.2	mg/kg wet								
Tetracosane (C24)	ND	0.2	mg/kg wet								
Tetradecane (C14)	ND	0.2	mg/kg wet								
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet								
Triacontane (C30)	ND	0.2	mg/kg wet								
Surrogate: O-Terphenyl	5.06		mg/kg wet	5.000		101	40-140				
LCS											
Decane (C10)	1.9	0.2	mg/kg wet	2.500		77	40-140				
Docosane (C22)	2.2	0.2	mg/kg wet	2.500		90	40-140				
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		87	40-140				
Eicosane (C20)	2.3	0.2	mg/kg wet	2.500		94	40-140				
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		94	40-140				
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		92	40-140				
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140				
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		64	30-140				
Octacosane (C28)	2.4	0.2	mg/kg wet	2.500		95	40-140				
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		92	40-140				
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		95	40-140				
Tetradecane (C14)	2.2	0.2	mg/kg wet	2.500		87	40-140				
Total Petroleum Hydrocarbons	30.0	37.5	mg/kg wet	35.00		86	40-140				
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		97	40-140				
Surrogate: O-Terphenyl	4.68		mg/kg wet	5.000		94	40-140				

185 Frances Avenue, Cranston, RI 02910-2211

2.0

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2.3

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0.2

Dependability

Tel: 401-461-7181

mg/kg wet

2.500

2.500

2.500

2.500

2.500

2.500

2.500

2.500

2.500

2.500

2.500

Quality

Fax: 401-461-4486

81

89

90

93

93

93

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65

94

92

40-140

40-140

40-140

40-140

40-140

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40-140

30-140

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40-140

http://www.ESSLaboratory.com

5

0.2

4

0.8

0.6

1

0.3

1

0.7

0.4

0.2

50

50

50

50

50

50

50

50

50

50



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD		
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier	
8100M Total Petroleum Hydrocarbons											
Batch CL00819 - 3546											
Tetradecane (C14)	2.3	0.2	mg/kg wet	2.500		91	40-140	4	50		
Total Petroleum Hydrocarbons	30.2	37.5	mg/kg wet	35.00		86	40-140	0.8	50		
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		96	40-140	0.8	50		
Surrogate: O-Terphenyl	4.71		mg/kg wet	5.000		94	40-140				

Surrogate: O-Terphenyl	4.71		mg/kg wet	5.000	94	40-140	
	;	8270C Semi	-Volatile Orga	anic Compou	ınds		
Batch CL00623 - 3546							
Blank							
1,1-Biphenyl	ND	0.333	mg/kg wet				
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet				
1,2-Dichlorobenzene	ND	0.333	mg/kg wet				
1,3-Dichlorobenzene	ND	0.333	mg/kg wet				
1,4-Dichlorobenzene	ND	0.333	mg/kg wet				
2,3,4,6-Tetrachlorophenol	ND	1.67	mg/kg wet				
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet				
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet				
2,4-Dichlorophenol	ND	0.333	mg/kg wet				
2,4-Dimethylphenol	ND	0.333	mg/kg wet				
2,4-Dinitrophenol	ND	1.67	mg/kg wet				
2,4-Dinitrotoluene	ND	0.333	mg/kg wet				
2,6-Dinitrotoluene	ND	0.333	mg/kg wet				
2-Chloronaphthalene	ND	0.333	mg/kg wet				
2-Chlorophenol	ND	0.333	mg/kg wet				
2-Methylnaphthalene	ND	0.333	mg/kg wet				
2-Methylphenol	ND	0.333	mg/kg wet				
2-Nitroaniline	ND	0.333	mg/kg wet				
2-Nitrophenol	ND	0.333	mg/kg wet				
3,3´-Dichlorobenzidine	ND	0.667	mg/kg wet				
3+4-Methylphenol	ND	0.667	mg/kg wet				
3-Nitroaniline	ND	0.333	mg/kg wet				
4,6-Dinitro-2-Methylphenol	ND	1.67	mg/kg wet				
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet				
4-Chloro-3-Methylphenol	ND	0.333	mg/kg wet				
4-Chloroaniline	ND	0.667	mg/kg wet				
4-Chloro-phenyl-phenyl ether	ND	0.333	mg/kg wet				
4-Nitroaniline	ND	0.333	mg/kg wet				
4-Nitrophenol	ND	1.67	mg/kg wet				
Acenaphthene	ND	0.333	mg/kg wet				
Acenaphthylene	ND	0.333	mg/kg wet				
Acetophenone	ND	0.667	mg/kg wet				
Aniline	ND	0.667	mg/kg wet				
Anthracene	ND	0.333	mg/kg wet				
Azobenzene	ND	0.333	mg/kg wet				
Benzo(a)anthracene	ND	0.333	mg/kg wet				

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2211 Tel: 401-461-7181
Dependability ♦ Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile	Organic	Compound	S
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Batch CL00623 - 3546							
Benzo(a)pyrene	ND	0.167	mg/kg wet				
Benzo(b)fluoranthene	ND	0.333	mg/kg wet				
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet				
Benzo(k)fluoranthene	ND	0.333	mg/kg wet				
Benzoic Acid	ND	1.67	mg/kg wet				
Benzyl Alcohol	ND	0.333	mg/kg wet				
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet				
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet				
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet				
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet				
Butylbenzylphthalate	ND	0.333	mg/kg wet				
Carbazole	ND	0.333	mg/kg wet				
Chrysene	ND	0.167	mg/kg wet				
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet				
Dibenzofuran	ND	0.333	mg/kg wet				
Diethylphthalate	ND	0.333	mg/kg wet				
Dimethylphthalate	ND	0.333	mg/kg wet				
Di-n-butylphthalate	ND	0.333	mg/kg wet				
Di-n-octylphthalate	ND	0.333	mg/kg wet				
luoranthene	ND	0.333	mg/kg wet				
luorene	ND	0.333	mg/kg wet				
lexachlorobenzene	ND	0.167	mg/kg wet				
lexachlorobutadiene	ND	0.333	mg/kg wet				
lexachlorocyclopentadiene	ND	1.67	mg/kg wet				
Hexachloroethane	ND	0.333	mg/kg wet				
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet				
Sophorone	ND	0.333	mg/kg wet				
Naphthalene	ND	0.333	mg/kg wet				
Nitrobenzene	ND	0.333	mg/kg wet				
N-Nitrosodimethylamine	ND	0.333	mg/kg wet				
N-Nitroso-Di-n-Propylamine	ND	0.333	mg/kg wet				
N-nitrosodiphenylamine	ND	0.333	mg/kg wet				
Pentachlorophenol	ND	1.67	mg/kg wet				
Phenanthrene	ND	0.333	mg/kg wet				
Phenol	ND	0.333	mg/kg wet				
Pyrene	ND	0.333	mg/kg wet				
Pyridine	ND	1.67	mg/kg wet				
Surrogate: 1,2-Dichlorobenzene-d4	2.81		mg/kg wet	3.333	84	30-130	
Surrogate: 2,4,6-Tribromophenol	4.71		mg/kg wet	5.000	94	30-130	
Surrogate: 2-Chlorophenol-d4	4.22		mg/kg wet	5.000	84	30-130	
Surrogate: 2-Fluorobiphenyl	2.75		mg/kg wet	3.333	82	30-130	
Surrogate: 2-Fluorophenol	4.22		mg/kg wet	5.000	84	30-130	
Surrogate: Nitrobenzene-d5	2.93		mg/kg wet	3.333	88	30-130	
Surrogate: Phenol-d6	4.49		mg/kg wet	5.000	90	30-130	
-							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile Organic Compounds

CS						
,1-Biphenyl	2.95	0.333	mg/kg wet	3.333	89	40-140
,2,4-Trichlorobenzene	2.83	0.333	mg/kg wet	3.333	85	40-140
,2-Dichlorobenzene	2.90	0.333	mg/kg wet	3.333	87	40-140
,3-Dichlorobenzene	2.86	0.333	mg/kg wet	3.333	86	40-140
,4-Dichlorobenzene	2.88	0.333	mg/kg wet	3.333	86	40-140
,3,4,6-Tetrachlorophenol	3.00	1.67	mg/kg wet	3.333	90	30-130
,4,5-Trichlorophenol	2.99	0.333	mg/kg wet	3.333	90	30-130
,4,6-Trichlorophenol	3.25	0.333	mg/kg wet	3.333	98	30-130
4-Dichlorophenol	3.19	0.333	mg/kg wet	3.333	96	30-130
4-Dimethylphenol	2.95	0.333	mg/kg wet	3.333	89	30-130
4-Dinitrophenol	2.82	1.67	mg/kg wet	3.333	85	30-130
4-Dinitrotoluene	3.02	0.333	mg/kg wet	3.333	90	40-140
5-Dinitrotoluene	3.12	0.333	mg/kg wet	3.333	94	40-140
Chloronaphthalene	2.90	0.333	mg/kg wet	3.333	87	40-140
Chlorophenol	2.95	0.333	mg/kg wet	3.333	89	30-130
Methylnaphthalene	3.07	0.333	mg/kg wet	3.333	92	40-140
Methylphenol	2.87	0.333	mg/kg wet	3.333	86	30-130
Nitroaniline	3.25	0.333	mg/kg wet	3.333	98	40-140
Nitrophenol	3.10	0.333	mg/kg wet	3.333	93	30-130
3´-Dichlorobenzidine	2.16	0.667	mg/kg wet	3.333	65	40-140
-4-Methylphenol	6.13	0.667	mg/kg wet	6.667	92	30-130
Nitroaniline	2.35	0.333	mg/kg wet	3.333	71	40-140
i-Dinitro-2-Methylphenol	3.19	1.67	mg/kg wet	3.333	96	30-130
Bromophenyl-phenylether	3.24	0.333	mg/kg wet	3.333	97	40-140
Chloro-3-Methylphenol	3.20	0.333	mg/kg wet	3.333	96	30-130
Chloroaniline	1.87	0.667	mg/kg wet	3.333	56	40-140
Chloro-phenyl-phenyl ether	2.99	0.333	mg/kg wet	3.333	90	40-140
Nitroaniline	3.23	0.333	mg/kg wet	3.333	97	40-140
Nitrophenol	2.78	1.67	mg/kg wet	3.333	83	30-130
enaphthene	3.16	0.333	mg/kg wet	3.333	95	40-140
enaphthylene	2.99	0.333	mg/kg wet	3.333	90	40-140
etophenone	3.01	0.667	mg/kg wet	3.333	90	40-140
iline	2.20	0.667	mg/kg wet	3.333	66	40-140
thracene	3.32	0.333	mg/kg wet	3.333	100	40-140
obenzene	2.85	0.333	mg/kg wet	3.333	86	40-140
enzo(a)anthracene	3.23	0.333	mg/kg wet	3.333	97	40-140
nzo(a)pyrene	3.31	0.167	mg/kg wet	3.333	99	40-140
nzo(b)fluoranthene	3.64	0.333	mg/kg wet	3.333	109	40-140
nzo(g,h,i)perylene	3.40	0.333	mg/kg wet	3.333	102	40-140
enzo(k)fluoranthene	3.16	0.333	mg/kg wet	3.333	95	40-140
enzoic Acid	2.85	1.67	mg/kg wet	3.333	85	40-140
enzyl Alcohol	2.81	0.333	mg/kg wet	3.333	84	40-140
s(2-Chloroethoxy)methane	2.79	0.333	mg/kg wet	3.333	84	40-140
s(2-Chloroethyl)ether	3.78	0.333	mg/kg wet	3.333	114	40-140



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

82/UC	Semi-v	olatile	Organic	Compo	unas

Batch CL00623 - 3546									
bis(2-chloroisopropyl)Ether	3.04	0.333	mg/kg wet	3.333	91	40-140			
bis(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333	94	40-140			
Butylbenzylphthalate	3.12	0.333	mg/kg wet	3.333	94	40-140			
Carbazole	3.03	0.333	mg/kg wet	3.333	91	40-140			
Chrysene	3.34	0.167	mg/kg wet	3.333	100	40-140			
Dibenzo(a,h)Anthracene	3.41	0.167	mg/kg wet	3.333	102	40-140			
Dibenzofuran	2.96	0.333	mg/kg wet	3.333	89	40-140			
Diethylphthalate	2.98	0.333	mg/kg wet	3.333	89	40-140			
Dimethylphthalate	3.05	0.333	mg/kg wet	3.333	91	40-140			
Di-n-butylphthalate	2.94	0.333	mg/kg wet	3.333	88	40-140			
Di-n-octylphthalate	3.27	0.333	mg/kg wet	3.333	98	40-140			
Fluoranthene	3.09	0.333	mg/kg wet	3.333	93	40-140			
Fluorene	3.28	0.333	mg/kg wet	3.333	98	40-140			
Hexachlorobenzene	3.29	0.167	mg/kg wet	3.333	99	40-140			
Hexachlorobutadiene	2.95	0.333	mg/kg wet	3.333	88	40-140			
Hexachlorocyclopentadiene	2.43	1.67	mg/kg wet	3.333	73	40-140			
Hexachloroethane	2.56	0.333	mg/kg wet	3.333	77	40-140			
Indeno(1,2,3-cd)Pyrene	3.51	0.333	mg/kg wet	3.333	105	40-140			
Isophorone	2.34	0.333	mg/kg wet	3.333	70	40-140			
Naphthalene	2.92	0.333	mg/kg wet	3.333	88	40-140			
Nitrobenzene	2.85	0.333	mg/kg wet	3.333	85	40-140			
N-Nitrosodimethylamine	3.03	0.333	mg/kg wet	3.333	91	40-140			
N-Nitroso-Di-n-Propylamine	2.86	0.333	mg/kg wet	3.333	86	40-140			
N-nitrosodiphenylamine	3.32	0.333	mg/kg wet	3.333	100	40-140			
Pentachlorophenol	3.39	1.67	mg/kg wet	3.333	102	30-130			
Phenanthrene	3.12	0.333	mg/kg wet	3.333	94	40-140			
Phenol	2.64	0.333	mg/kg wet	3.333	79	30-130			
Pyrene	3.30	0.333	mg/kg wet	3.333	99	40-140			
Pyridine	2.40	1.67	mg/kg wet	3.333	72	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.90		mg/kg wet	3.333	87	30-130			
Surrogate: 2,4,6-Tribromophenol	5.28		mg/kg wet	5.000	106	30-130			
Surrogate: 2-Chlorophenol-d4	4.39		mg/kg wet	5.000	88	30-130			
Surrogate: 2-Fluorobiphenyl	2.91		mg/kg wet	3.333	87	30-130			
Surrogate: 2-Fluorophenol	4.27		mg/kg wet	5.000	85	30-130			
Surrogate: Nitrobenzene-d5	2.93		mg/kg wet	3.333	88	30-130			
Surrogate: Phenol-d6	4.67		mg/kg wet	5.000	93	30-130			
Surrogate: p-Terphenyl-d14	3.12		mg/kg wet	3.333	94	30-130			
LCS Dup									
1,1-Biphenyl	2.90	0.333	mg/kg wet	3.333	87	40-140	2	30	
1,2,4-Trichlorobenzene	2.81	0.333	mg/kg wet	3.333	84	40-140	0.8	30	
1,2-Dichlorobenzene	2.95	0.333	mg/kg wet	3.333	89	40-140	2	30	
1,3-Dichlorobenzene	2.88	0.333	mg/kg wet	3.333	86	40-140	0.8	30	
1,4-Dichlorobenzene	2.83	0.333	mg/kg wet	3.333	85	40-140	2	30	
2,3,4,6-Tetrachlorophenol	3.09	1.67	mg/kg wet	3.333	93	30-130	3	30	
2,4,5-Trichlorophenol	3.09	0.333	mg/kg wet	3.333	93	30-130	3	30	

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

82/0C Semi-Volatile	Organic (Compounds
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Satch CL00623 - 3546									
,4,6-Trichlorophenol	3.18	0.333	mg/kg wet	3.333	96	30-130	2	30	
4-Dichlorophenol	3.23	0.333	mg/kg wet	3.333	97	30-130	1	30	
4-Dimethylphenol	3.04	0.333	mg/kg wet	3.333	91	30-130	3	30	
,4-Dinitrophenol	2.86	1.67	mg/kg wet	3.333	86	30-130	1	30	
4-Dinitrotoluene	3.15	0.333	mg/kg wet	3.333	95	40-140	4	30	
6-Dinitrotoluene	3.22	0.333	mg/kg wet	3.333	97	40-140	3	30	
-Chloronaphthalene	2.84	0.333	mg/kg wet	3.333	85	40-140	2	30	
-Chlorophenol	3.04	0.333	mg/kg wet	3.333	91	30-130	3	30	
-Methylnaphthalene	3.12	0.333	mg/kg wet	3.333	94	40-140	2	30	
-Methylphenol	3.02	0.333	mg/kg wet	3.333	91	30-130	5	30	
-Nitroaniline	3.40	0.333	mg/kg wet	3.333	102	40-140	4	30	
-Nitrophenol	3.13	0.333	mg/kg wet	3.333	94	30-130	0.8	30	
,3´-Dichlorobenzidine	2.11	0.667	mg/kg wet	3.333	63	40-140	3	30	
+4-Methylphenol	6.16	0.667	mg/kg wet	6.667	92	30-130	0.5	30	
-Nitroaniline	2.52	0.333	mg/kg wet	3.333	76	40-140	7	30	
,6-Dinitro-2-Methylphenol	3.15	1.67	mg/kg wet	3.333	94	30-130	1	30	
-Bromophenyl-phenylether	2.97	0.333	mg/kg wet	3.333	89	40-140	9	30	
-Chloro-3-Methylphenol	3.33	0.333	mg/kg wet	3.333	100	30-130	4	30	
-Chloroaniline	1.98	0.667	mg/kg wet	3.333	59	40-140	6	30	
Chloro-phenyl-phenyl ether	2.97	0.333	mg/kg wet	3.333	89	40-140	0.5	30	
Nitroaniline	2.97	0.333	mg/kg wet	3.333	89	40-140	8	30	
Nitrophenol	2.68	1.67	mg/kg wet	3.333	80	30-130	4	30	
cenaphthene	3.15	0.333	mg/kg wet	3.333	95	40-140	0.4	30	
cenaphthylene	2.99	0.333	mg/kg wet	3.333	90	40-140	0.2	30	
cetophenone	3.30	0.667	mg/kg wet	3.333	99	40-140	9	30	
niline	2.28	0.667	mg/kg wet	3.333	68	40-140	4	30	
nthracene	3.34	0.333	mg/kg wet	3.333	100	40-140	0.5	30	
zobenzene	2.80	0.333	mg/kg wet	3.333	84	40-140	2	30	
enzo(a)anthracene	3.26	0.333	mg/kg wet	3.333	98	40-140	0.6	30	
enzo(a)pyrene	3.30	0.167	mg/kg wet	3.333	99	40-140	0.4	30	
enzo(b)fluoranthene	3.29	0.333	mg/kg wet	3.333	99	40-140	10	30	
enzo(g,h,i)perylene	3.23	0.333	mg/kg wet	3.333	97	40-140	5	30	
enzo(k)fluoranthene	3.54	0.333	mg/kg wet	3.333	106	40-140	11	30	
enzoic Acid	2.73	1.67	mg/kg wet	3.333	82	40-140	4	30	
enzyl Alcohol	2.89	0.333	mg/kg wet	3.333	87	40-140	3	30	
s(2-Chloroethoxy)methane	2.76	0.333	mg/kg wet	3.333	83	40-140	1	30	
s(2-Chloroethyl)ether	3.51	0.333	mg/kg wet	3.333	105	40-140	8	30	
s(2-chloroisopropyl)Ether	3.04	0.333	mg/kg wet	3.333	91	40-140	0.2	30	
s(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333	94	40-140	0.07	30	
utylbenzylphthalate	3.08	0.333	mg/kg wet	3.333	92	40-140	1	30	
arbazole	3.04	0.333	mg/kg wet	3.333	91	40-140	0.2	30	
nrysene	3.32	0.167	mg/kg wet	3.333	100	40-140	0.5	30	
ibenzo(a,h)Anthracene	3.24	0.167	mg/kg wet	3.333	97	40-140	5	30	
ibenzofuran	3.03	0.333	mg/kg wet	3.333	91	40-140	2	30	
viethylphthalate	3.04	0.333	mg/kg wet	3.333	91	40-140	2	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifie
		8270C Semi	-Volatile Orga	anic Com	pounds					
Batch CL00623 - 3546										
Dimethylphthalate	3.08	0.333	mg/kg wet	3.333		93	40-140	1	30	
Di-n-butylphthalate	2.89	0.333	mg/kg wet	3.333		87	40-140	2	30	
Di-n-octylphthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	2	30	
Fluoranthene	3.13	0.333	mg/kg wet	3.333		94	40-140	1	30	
Fluorene	3.34	0.333	mg/kg wet	3.333		100	40-140	2	30	
Hexachlorobenzene	3.24	0.167	mg/kg wet	3.333		97	40-140	2	30	
Hexachlorobutadiene	2.85	0.333	mg/kg wet	3.333		86	40-140	3	30	
Hexachlorocyclopentadiene	2.32	1.67	mg/kg wet	3.333		70	40-140	4	30	
lexachloroethane	2.70	0.333	mg/kg wet	3.333		81	40-140	5	30	
ndeno(1,2,3-cd)Pyrene	3.31	0.333	mg/kg wet	3.333		99	40-140	6	30	
sophorone	2.38	0.333	mg/kg wet	3.333		72	40-140	2	30	
Naphthalene	2.96	0.333	mg/kg wet	3.333		89	40-140	1	30	
Nitrobenzene	2.92	0.333	mg/kg wet	3.333		88	40-140	3	30	
I-Nitrosodimethylamine	3.08	0.333	mg/kg wet	3.333		92	40-140	2	30	
N-Nitroso-Di-n-Propylamine	3.03	0.333	mg/kg wet	3.333		91	40-140	6	30	
I-nitrosodiphenylamine	3.20	0.333	mg/kg wet	3.333		96	40-140	4	30	
entachlorophenol	3.28	1.67	mg/kg wet	3.333		99	30-130	3	30	
henanthrene	3.06	0.333	mg/kg wet	3.333		92	40-140	2	30	
henol	3.16	0.333	mg/kg wet	3.333		95	30-130	18	30	
yrene	3.26	0.333	mg/kg wet	3.333		98	40-140	1	30	
yridine	2.69	1.67	mg/kg wet	3.333		81	40-140	11	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.87		mg/kg wet	3.333		86	30-130			
Surrogate: 2,4,6-Tribromophenol	5.02		mg/kg wet	5.000		100	30-130			
Surrogate: 2-Chlorophenol-d4	4.46		mg/kg wet	5.000		89	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/kg wet	3.333		85	30-130			
Surrogate: 2-Fluorophenol	4.14		mg/kg wet	5.000		83	30-130			
Surrogate: Nitrobenzene-d5	2.88		mg/kg wet	3.333		86	30-130			
Surrogate: Phenol-d6	4.90		mg/kg wet	5.000		98	30-130			
Surrogate: p-Terphenyl-d14	3.04		mg/kg wet	3.333		91	30-130			
fatrix Spike Source: 10	012057-01									
,1-Biphenyl	2.47	0.358	mg/kg dry	3.580	ND	69	40-140			
,2,4-Trichlorobenzene	2.23	0.358	mg/kg dry	3.580	ND	62	40-140			
,2-Dichlorobenzene	2.13	0.358	mg/kg dry	3.580	ND	59	40-140			
,3-Dichlorobenzene	2.07	0.358	mg/kg dry	3.580	ND	58	40-140			
,4-Dichlorobenzene	2.04	0.358	mg/kg dry	3.580	ND	57	40-140			
2,3,4,6-Tetrachlorophenol	2.86	1.79	mg/kg dry	3.580	ND	80	30-130			
,4,5-Trichlorophenol	2.73	0.358	mg/kg dry	3.580	ND	76	30-130			
,4,6-Trichlorophenol	2.82	0.358	mg/kg dry	3.580	ND	79	30-130			
,4-Dichlorophenol	2.61	0.358	mg/kg dry	3.580	ND	73	30-130			
,4-Dimethylphenol	2.49	0.358	mg/kg dry	3.580	ND	69	30-130			
,4-Dinitrophenol	2.31	1.79	mg/kg dry	3.580	ND	65	30-130			
,4-Dinitrotoluene	3.04	0.358	mg/kg dry	3.580	ND	85	40-140			
,6-Dinitrotoluene	2.94	0.358	mg/kg dry	3.580	ND	82	40-140			
-Chloronaphthalene	2.35	0.358	mg/kg dry	3.580	ND	66	40-140			
-Chlorophenol	2.31	0.358	mg/kg dry	3.580	ND	65	30-130			

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile	Organic	Compound	S
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3atch CL00623 - 3546							
2-Methylnaphthalene	2.53	0.358	mg/kg dry	3.580	ND	71	40-140
2-Methylphenol	2.36	0.358	mg/kg dry	3.580	ND	66	30-130
2-Nitroaniline	3.11	0.358	mg/kg dry	3.580	ND	87	40-140
-Nitrophenol	2.51	0.358	mg/kg dry	3.580	ND	70	30-130
3,3´-Dichlorobenzidine	2.92	0.716	mg/kg dry	3.580	ND	82	40-140
3+4-Methylphenol	5.50	0.716	mg/kg dry	7.161	ND	77	30-130
3-Nitroaniline	2.58	0.358	mg/kg dry	3.580	ND	72	40-140
1,6-Dinitro-2-Methylphenol	3.23	1.79	mg/kg dry	3.580	ND	90	30-130
1-Bromophenyl-phenylether	3.15	0.358	mg/kg dry	3.580	ND	88	40-140
1-Chloro-3-Methylphenol	2.95	0.358	mg/kg dry	3.580	ND	82	30-130
-Chloroaniline	2.14	0.716	mg/kg dry	3.580	ND	60	40-140
-Chloro-phenyl-phenyl ether	2.64	0.358	mg/kg dry	3.580	ND	74	40-140
-Nitroaniline	3.33	0.358	mg/kg dry	3.580	ND	93	40-140
-Nitrophenol	2.77	1.79	mg/kg dry	3.580	ND	77	30-130
cenaphthene	2.76	0.358	mg/kg dry	3.580	ND	77	40-140
cenaphthylene	2.63	0.358	mg/kg dry	3.580	ND	73	40-140
cetophenone	2.55	0.716	mg/kg dry	3.580	ND	71	40-140
niline	2.10	0.716	mg/kg dry	3.580	ND	59	40-140
nthracene	3.44	0.358	mg/kg dry	3.580	ND	96	40-140
zobenzene	2.81	0.358	mg/kg dry	3.580	ND	78	40-140
enzo(a)anthracene	3.39	0.358	mg/kg dry	3.580	ND	95	40-140
enzo(a)pyrene	3.48	0.179	mg/kg dry	3.580	ND	97	40-140
enzo(b)fluoranthene	3.65	0.358	mg/kg dry	3.580	ND	102	40-140
enzo(g,h,i)perylene	3.46	0.358	mg/kg dry	3.580	ND	97	40-140
enzo(k)fluoranthene	3.52	0.358	mg/kg dry	3.580	ND	98	40-140
enzoic Acid	1.42	1.79	mg/kg dry	3.580	ND	40	40-140
enzyl Alcohol	2.45	0.358	mg/kg dry	3.580	ND	68	40-140
is(2-Chloroethoxy)methane	2.47	0.358	mg/kg dry	3.580	ND	69	40-140
is(2-Chloroethyl)ether	3.02	0.358	mg/kg dry	3.580	ND	84	40-140
is(2-chloroisopropyl)Ether	2.26	0.358	mg/kg dry	3.580	ND	63	40-140
is(2-Ethylhexyl)phthalate	3.34	0.358	mg/kg dry	3.580	ND	93	40-140
utylbenzylphthalate	3.29	0.358	mg/kg dry	3.580	ND	92	40-140
arbazole	3.20	0.358	mg/kg dry	3.580	ND	89	40-140
hrysene	3.55	0.179	mg/kg dry	3.580	ND	99	40-140
ibenzo(a,h)Anthracene	3.41	0.179	mg/kg dry	3.580	ND	95	40-140
ibenzofuran	2.65	0.358	mg/kg dry	3.580	ND	74	40-140
iethylphthalate	2.84	0.358	mg/kg dry	3.580	ND	79	40-140
imethylphthalate	2.83	0.358	mg/kg dry	3.580	ND	79	40-140
i-n-butylphthalate	3.15	0.358	mg/kg dry	3.580	ND	88	40-140
i-n-octylphthalate	3.44	0.358	mg/kg dry	3.580	ND	96	40-140
luoranthene	3.28	0.358	mg/kg dry	3.580	ND	92	40-140
luorene	2.98	0.358	mg/kg dry	3.580	ND	83	40-140
lexachlorobenzene	3.32	0.179	mg/kg dry	3.580	ND	93	40-140
lexachlorobutadiene	2.20	0.358	mg/kg dry	3.580	ND	61	40-140
Hexachlorocyclopentadiene	1.82	1.79	mg/kg dry	3.580	ND		40-140



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

Analyte Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			Spike	Source		%REC		RPD	

Batch CL00623 - 3546										
Hexachloroethane	2.00	0.358	mg/kg dry	3.580	ND	56	40-140			
Indeno(1,2,3-cd)Pyrene	3.58	0.358	mg/kg dry	3.580	ND	100	40-140			
Isophorone	2.00	0.358	mg/kg dry	3.580	ND	56	40-140			
Naphthalene	2.40	0.358	mg/kg dry	3.580	ND	67	40-140			
Nitrobenzene	2.28	0.358	mg/kg dry	3.580	ND	64	40-140			
N-Nitrosodimethylamine	2.19	0.358	mg/kg dry	3.580	ND	61	40-140			
N-Nitroso-Di-n-Propylamine	2.39	0.358	mg/kg dry	3.580	ND	67	40-140			
N-nitrosodiphenylamine	3.25	0.358	mg/kg dry	3.580	ND	91	40-140			
Pentachlorophenol	3.44	1.79	mg/kg dry	3.580	ND	96	30-130			
Phenanthrene	3.20	0.358	mg/kg dry	3.580	ND	89	40-140			
Phenol	2.38	0.358	mg/kg dry	3.580	ND	67	30-130			
Pyrene	3.45	0.358	mg/kg dry	3.580	ND	96	40-140			
Pyridine	1.53	1.79	mg/kg dry	3.580	ND	43	40-140			
· Surrogate: 1,2-Dichlorobenzene-d4	2.10		mg/kg dry	3.580		59	30-130			
Surrogate: 1,2-Dichioropenzene-u4 Surrogate: 2,4,6-Tribromophenol	5.18		mg/kg dry	5.371		96	30-130			
Surrogate: 2-Chlorophenol-d4	3.46		mg/kg dry	5.371		64	30-130			
Surrogate: 2-Fluorobiphenyl	2.40		mg/kg dry	3.580		67	30-130			
Surrogate: 2-Fluorophenol	3.20		mg/kg dry	5.371		60	30-130			
Surrogate: Nitrobenzene-d5	2.33		mg/kg dry	3.580		65	30-130			
Surrogate: Phenol-d6	3.78		mg/kg dry	5.371		70	30-130			
Surrogate: p-Terphenyl-d14	3.28		mg/kg dry	3.580		92	30-130			
Matrix Spike Dup Source: 1012057-01										
1,1-Biphenyl	2.58	0.360	mg/kg dry	3.605	ND	71	40-140	4	30	
1,2,4-Trichlorobenzene	2.50	0.360	mg/kg dry	3.605	ND	69	40-140	11	30	
1,2-Dichlorobenzene	2.56	0.360	mg/kg dry	3.605	ND	71	40-140	19	30	
1,3-Dichlorobenzene	2.56	0.360	mg/kg dry	3.605	ND	71	40-140	21	30	
1,4-Dichlorobenzene	2.55	0.360	mg/kg dry	3.605	ND	71	40-140	22	30	
2,3,4,6-Tetrachlorophenol	2.94	1.81	mg/kg dry	3.605	ND	81	30-130	3	30	
2,4,5-Trichlorophenol	2.76	0.360	mg/kg dry	3.605	ND	77	30-130	0.8	30	
2,4,6-Trichlorophenol	2.87	0.360	mg/kg dry	3.605	ND	80	30-130	2	30	
2,4-Dichlorophenol	2.70	0.360	mg/kg dry	3.605	ND	75	30-130	3	30	
2,4-Dimethylphenol	2.59	0.360	mg/kg dry	3.605	ND	72	30-130	4	30	
2,4-Dinitrophenol	2.37	1.81	mg/kg dry	3.605	ND	66	30-130	3	30	
2,4-Dinitrotoluene	3.18	0.360	mg/kg dry	3.605	ND	88	40-140	5	30	
2,6-Dinitrotoluene	3.00	0.360	mg/kg dry	3.605	ND	83	40-140	2	30	
2-Chloronaphthalene	2.45	0.360	mg/kg dry	3.605	ND	68	40-140	4	30	
2-Chlorophenol	2.61	0.360	mg/kg dry	3.605	ND	72	30-130	12	30	
2-Methylnaphthalene	2.68	0.360	mg/kg dry	3.605	ND	74	40-140	6	30	
2-Methylphenol	2.57	0.360	mg/kg dry	3.605	ND	71	30-130	9	30	
2-Nitroaniline	3.19	0.360	mg/kg dry	3.605	ND	88	40-140	2	30	
2-Nitrophenol	2.69	0.360	mg/kg dry	3.605	ND	75	30-130	7	30	
			mg/kg dry	3.605	ND	74	40-140	10	30	
3,3´-Dichlorobenzidine	2.65	0.721	ilig/kg uly							
	2.65 5.65	0.721	mg/kg dry	7.210	ND	78	30-130	3	30	
3,3´-Dichlorobenzidine 3+4-Methylphenol 3-Nitroaniline					ND ND	78 75	30-130 40-140	3 4	30 30	

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2.91

BAL Laboratory

ND

81

40-140

8

3.605

The Microbiology Division of Thielsch Engineering, Inc.



30

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546 4-Bromophenyl-phenylether

Di-n-octylphthalate

Hexachlorobenzene

Hexachlorobutadiene

Hexachloroethane

Isophorone

Naphthalene

Nitrobenzene

Hexachlorocyclopentadiene

Indeno(1,2,3-cd)Pyrene

N-Nitrosodimethylamine

N-nitrosodiphenylamine

N-Nitroso-Di-n-Propylamine

Fluoranthene

ESS Laboratory Work Order: 1012057 Client Project ID: Lincoln Lace

0.360

0.360

0.360

0.360

0.181

0.360

1.81

0.360

0.360

0.360

0.360

0.360

0.360

0.360

0.360

3.24

3.16

3.09

3.16

2.48

1.96

2.44

3.40

2.02

2.59

2.56

2.84

2.67

3.19

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile Organic Compounds

mg/kg dry

4-Chloro-3-Methylphenol	3.01	0.360	mg/kg dry	3.605	ND	83	30-130	2	30	
4-Chloroaniline	2.06	0.721	mg/kg dry	3.605	ND	57	40-140	4	30	
4-Chloro-phenyl-phenyl ether	2.67	0.360	mg/kg dry	3.605	ND	74	40-140	1	30	
4-Nitroaniline	3.32	0.360	mg/kg dry	3.605	ND	92	40-140	0.3	30	
4-Nitrophenol	2.83	1.81	mg/kg dry	3.605	ND	78	30-130	2	30	
Acenaphthene	2.87	0.360	mg/kg dry	3.605	ND	80	40-140	4	30	
Acenaphthylene	2.70	0.360	mg/kg dry	3.605	ND	75	40-140	3	30	
Acetophenone	2.90	0.721	mg/kg dry	3.605	ND	80	40-140	13	30	
Aniline	2.37	0.721	mg/kg dry	3.605	ND	66	40-140	12	30	
Anthracene	3.38	0.360	mg/kg dry	3.605	ND	94	40-140	2	30	
Azobenzene	2.78	0.360	mg/kg dry	3.605	ND	77	40-140	1	30	
Benzo(a)anthracene	3.31	0.360	mg/kg dry	3.605	ND	92	40-140	2	30	
Benzo(a)pyrene	3.41	0.181	mg/kg dry	3.605	ND	95	40-140	2	30	
Benzo(b)fluoranthene	3.21	0.360	mg/kg dry	3.605	ND	89	40-140	13	30	
Benzo(g,h,i)perylene	3.30	0.360	mg/kg dry	3.605	ND	91	40-140	5	30	
Benzo(k)fluoranthene	3.74	0.360	mg/kg dry	3.605	ND	104	40-140	6	30	
Benzoic Acid	1.54	1.81	mg/kg dry	3.605	ND	43	40-140	8	30	
Benzyl Alcohol	2.70	0.360	mg/kg dry	3.605	ND	75	40-140	10	30	
bis(2-Chloroethoxy)methane	2.61	0.360	mg/kg dry	3.605	ND	72	40-140	6	30	
bis(2-Chloroethyl)ether	2.98	0.360	mg/kg dry	3.605	ND	83	40-140	1	30	
bis(2-chloroisopropyl)Ether	2.61	0.360	mg/kg dry	3.605	ND	72	40-140	15	30	
bis(2-Ethylhexyl)phthalate	3.14	0.360	mg/kg dry	3.605	ND	87	40-140	6	30	
Butylbenzylphthalate	3.15	0.360	mg/kg dry	3.605	ND	87	40-140	4	30	
Carbazole	3.13	0.360	mg/kg dry	3.605	ND	87	40-140	2	30	
Chrysene	3.44	0.181	mg/kg dry	3.605	ND	95	40-140	3	30	
Dibenzo(a,h)Anthracene	3.38	0.181	mg/kg dry	3.605	ND	94	40-140	0.7	30	
Dibenzofuran	2.73	0.360	mg/kg dry	3.605	ND	76	40-140	3	30	
Diethylphthalate	2.93	0.360	mg/kg dry	3.605	ND	81	40-140	3	30	
Dimethylphthalate	2.91	0.360	mg/kg dry	3.605	ND	81	40-140	3	30	
Di-n-butylphthalate	2.96	0.360	mg/kg dry	3.605	ND	82	40-140	6	30	

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

mg/kg dry

Fax: 401-461-4486

ND

3.605

3.605

3.605

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3.73

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4.17

3.09

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

69

70

77

86

30-130

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CERTIFICATE OF ANALYSIS

Client Name: RC & D

Surrogate: 2-Fluorophenol

Surrogate: Nitrobenzene-d5

Surrogate: Phenol-d6 Surrogate: p-Terphenyl-d14

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
	8	3270C Semi-	-Volatile Orga	anic Com	pounds					
Batch CL00623 - 3546										
Pentachlorophenol	3.32	1.81	mg/kg dry	3.605	ND	92	30-130	4	30	
Phenanthrene	3.18	0.360	mg/kg dry	3.605	ND	88	40-140	0.4	30	
Phenol	2.64	0.360	mg/kg dry	3.605	ND	73	30-130	10	30	
Pyrene	3.35	0.360	mg/kg dry	3.605	ND	93	40-140	3	30	
Pyridine	2.14	1.81	mg/kg dry	3.605	ND	59	40-140	33	30	D+
Surrogate: 1,2-Dichlorobenzene-d4	2.51		mg/kg dry	3.605		70	30-130			
Surrogate: 2,4,6-Tribromophenol	4.96		mg/kg dry	5.407		92	30-130			
Surrogate: 2-Chlorophenol-d4	3.90		mg/kg dry	5.407		72	30-130			
Surrogate: 2-Fluorobiphenyl	2.48		mg/kg dry	3.605		69	30-130			

mg/kg dry

mg/kg dry

mg/kg dry

mg/kg dry

5.407

3.605

5.407

3.605



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

	Notes and Definitions
U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report

1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

2 Range result excludes concentrations of target analytes eluting in that range.

3 Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery

[CALC] Calculated Analyte

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002 http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424 http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301 http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002 http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752 http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911 accredited laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141 Lead Paint, Lead in Children's Metals Jewelry http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: RC and D			ESS Project ID:	<u>10120057</u>
Client Project ID:		Da	ate Project Due:	<u>12/8/10</u>
Shipped/Delivered Via:	ESS Courier	Da	ays For Project:	3 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No	10. Are the samples properly preserved? Yes							
Air No.:	11. Proper sample containers used? Yes							
2. Were Custody Seals Present? No	12. Any air bubbles in the VOA vials? N/A							
3. Were Custody Seals Intact? N/A	13. Holding times exceeded? No							
4. Is Radiation count < 100 CPM? Yes	14. Sufficient sample volumes? Yes							
5. Is a cooler present? * No	15. Any Subcontracting needed?							
Cooler Temp: NA	16. Are ESS labels on correct containers? Yes No							
Iced With: None	17. Were samples received intact? (es)No							
6. Was COC included with samples? Yes	ESS Sample IDs:							
7. Was COC signed and dated by client? Yes	Sub Lab:							
8. Does the COC match the sample Yes	Analysis:							
9. Is COC complete and correct? Yes								
18. Was there need to call project manager to d	iscuss status? If yes, please explain.							
Who was called?: By whom?								
Sample Number Properly Preserved C	ontainer Type # of Containers Preservative							
1 Yes 40 ml - VOA 1 MeOH 1 Yes Plastic Bag 1 NP Completed By: Date/Time:/ Date/Time:/ Date/Time:// Date								

CC I Thomas ATTW 12 CHAIN OF CUSTODY	1
Turn Time Standard Other 3 DAY Reporting Limits ESS LAB If faster than 5 days, prior approval by laboratory is required # PIDEM FORE CONTRACTOR FORE CONTRACTOR CONTRACTOR FORE CONTRACTOR	24
Fel. (401) 461-7181 Fax (401) 461-4486 Is this project for any of the following: Naww.esslaboratory.com State where samples were concludation. State where samples were concludation. Na. McP. Navy Other State where samples were concludation. No. McA. McP. Navy Other State where samples were concludation. State where samples were concludation. State where samples were concludation. No. McA. McP. Nav. McA. McA. McP. Nav. McA. McA. McA. McA. McA. McA. McA. McA	
Project #	
aron < h 1/2 + b 1 / 17 (from don plue, Suite 204	
State Sip PO# 00 Sintersine	
22	
Collection Collec	
,	
2/10 14 00 1006 (SF 5 1/18 dg)	
w-wipes	- 6
Cooler Present Yes No Internal Use Only Preservation Code 1- NP, 2- HC1, 3- H ₂ SO ₄ , 4- HNO ₃ , 5- NaOH, 6- McOH, 7- Asorbic Acid, 9- Zirxe, 7- Cooler Present	
Yes No NA: [] Pickup Sampled by: M. Black	
p: [] Technicians Comments: Preserved by ESSO their of fice in 3/0%.	72.76 E
Relinquished by: (Signature) Date/Time Recoved by: (Signature)	160
Date/Time Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature)	Jate/ Lime
*By circling MA-MCP, client acknowledges samples were collected Please fax all changes to Chain of Custody in writing.	lient Receipt 10/26/04 A



EA Engineering, Science, and Technology, Inc. 2374 Post Road, Suite 102 Warwick, Rhode Island 02886 Telephone: (401) 736-3440 FAX: (401) 736-3423

EA Project No. 61891.05 PROVIDENCE, RHODE ISLAND

CONSTRUCTION SUBMITTAL APPROVAL

Submittal	: 1006-18
-----------	-----------

Description: Gravel and Topsoil Testing Results

Specification Section: 31 00 00

APPROVED AS NOTED	[]
APPROVED	[X]
REVISE AND RESUBMIT	[]
NOT APPROVED	1.1

Engineer's review and approval of this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in Contract Documents and conformance with design concept of completed Project as a functioning whole. CONTRACTOR is, and ENGINEER is NOT, responsible for all matters relating to fabrication, shipping, handling, storage, assembly, and installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.

Engineer:

Original signed by Stephen Curtis Mason, P.E.

Date:

The attached submittal is recommended for approval.

12/20/10

DATE	THORITY	ING AU	SECTION II - APPROVAL ACTION LE AND SIGNATURE OF APPROV	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	ENCLOSURES RETURNED (List by Item No.)
	NAME AND SIGNATURE OF CONTRACTOR	क्ष	13. RC&D should now	PH, VOC, SVOC, and PP	For the Topsoil, one sample was run: 1006-ReadTS-05 for TPH, VOC, SVOC, and PP13. RC&D should now be approved to haul up to 2,500 CY topsoil.
		s-09 for	d PP13, and 1006-Lope	or TPH, VOC, SVOC, and 000 CY gravel fill.	For the Gravel Fill, two samples were run: 1006-GFGrab08 for TPH, VOC, SVOC, and PP13, and 1006-Lopes-09 for just arsenic. RC&D should now be approved to haul up to 5,000 CY gravel fill.
K U K	I certify that the above submitted imms have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.	-	bmittal #1006-14 ll and 2,000 CY topsoi	Reference the previous sul lup to 4,000 CY gravel fil	REMARKS See the attached analytical results for gravel fill and topsoil. Reference the previous submittal #1006-14 for analytical results where RC&D had been approved to haul up to 4,000 CY gravel fill and 2,000 CY topsoil.
\neg					
					Analytical for Gravel Fill and Topsoil
	+	p.	C.		NO. (Type, mzz, mones number, eu.) b.
	SPEC. DRAWING		BROCHURE NO.		ITEM DESCRIPTION OF ITEM SUBMITTED
CONTRACTOR	DOCUMENT	COPTES	MFG. OR CONTR. CAT, CURVE DRAWING OR		
1					31 00 00
THE R.	Lincoln Lace & Braid Site Remediation Project Providence, RI		ON:	PROJECT TITLE AND LOCATION:	SPECIFICATION SECTION NO: (Cover poly one section with such termental)
	531451		в 204	17 Gordon Avenue, Suite 204 Providence, RI 02905	EA Engineering, Science, and Technology, inc. 2350 Post Road Warwick, RI 02886
CHECK ONE:	ICT NO:	CONTRACT NO:		FROM:	TO:
ĪË	ill be initiated by the Contrac	section w	OLLOWING ITEMS (This	SECTION I - REQUEST FOR APPROVAL OF THE FOIL OWING ITEMS (This section will be initiated by the Contractor)	SECTION 1 - REQUEST F
	December 16, 2010	ָ טַ		ES OF COMPLIANCE to initiating this form!	MANUFACTURER'S CERTIFICATES OF COMPLIANCE (Read instructions on reverse side prior to Indicating this form)
The state of the s		DATE		NT DATA, MATERIAL SA	TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OK



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Rob Schuster RC & D 17 Gordon Avenue, Suite 204 Providence, RI 02905-1952

RE: Lincoln Lace (1006)

ESS Laboratory Work Order Number: 1012057

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Land of to CO.

ESS.

Oigitally signed by Laurel Stoddard Date: 2010.12.13 12:53:04 -05'00'

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

SAMPLE RECEIPT

The following samples were received on December 03, 2010 for the analyses specified on the enclosed Chain of Custody Record.

Client did not deliver samples in a cooler. VOCs were preserved in methanol by ESS Laboratory.

Lab Number 1012057-01 SampleName 1006-GFGrab08 Matrix

Analysis

Soil

6010B, 7471A, 7841, 8100M, 8260B, 8270C



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

PROJECT NARRATIVE

8270C Semi-Volatile Organic Compounds

CL00623-MSD1 Relative percent difference for duplicate is outside of criteria (D+).

Pyridine (33%)

CTL0044-CCV1 Calibration required quadratic regression (Q).

2,4-Dinitrophenol (109% @ 70-130%), Hexachlorocyclopentadiene (97% @ 70-130%),

Pentachlorophenol (119% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids:

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI-RES DEC

Analyte Antimony	Results (MRL) ND (4.8)	Method 6010B	<u>Limit</u> 10	<u>DF</u>	Analyst SVD	Analyzed 12/08/10 17:47	<u>I/V</u> 2,18	F/V 100	Batch CL00601
Arsenic	ND (2.4)	6010B	7	1	SVD	12/08/10 17:47	2.18	100	CL00601
Beryllium	0.15 (0.10)	6010B	0.4	1	SVD	12/08/10 17:47	2.18	100	CL00601
Cadmium	ND (0.49)	6010B	39	ı	SVD	12/08/10 17:47	2.18	100	CL00601
Chromium	2.5 (1.0)	6010B	1400	1	SVD	12/08/10 17:47	2.18	100	CL00601
Copper	ND (2.4)	6010B	3100	1	SVD	12/08/10 17:47	2.18	100	CL00601
Lead	ND (4.8)	6010B	150	1	SVD	12/08/10 17:47	2.18	100	CL00601
Mercury	ND (0.032)	7471A	23	1	JP	12/07/10 16:43	0.66	40	CL00602
Nickel	ND (2.4)	6010B	1000	1	SVD	12/08/10 17:47	2.18	100	CL00601
Selenium	ND (4.8)	6010B	390	1	SVD	12/08/10 17:47	2.18	100	CL00601
Silver	ND (0.49)	6010B	200	1	SVD	12/08/10 17:47	2.18	100	CL00601
Thallium	ND (1.20)	7841	5.5	5	SVD	12/10/10 17:15	2.18	100	CL00601
Zinc	3.3 (2.4)	6010B	6000	1	SVD	12/08/10 17:47	2.18	100	CL00601



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 9 Initial Volume: 20.3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

RI-RES DEC

			MI - KES DE	AC .			
Analyte 1,1,1,2-Tetrachloroethane	Results (MRL) ND (0.0830)	MDL 0.0072	<u>Limit</u> 2.2	<u>DF</u>	Analyzed 12/06/10 22:33	Sequence CTL0041	Batch CL00619
1,1,1-Trichloroethane	ND (0.0415)	0.0073	540	1	12/06/10 22:33	CTL0041	CL00619
1,1,2,2-Tetrachloroethane	ND (0.0415)	0.0113	1.3	1	12/06/10 22:33	CTL0041	CL00619
1,1,2-Trichloroethane	ND (0.0415)	0.0104	3.6	1	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloroethane	ND (0.0415)	0.0066	920	1	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloroethene	ND (0.0415)	0.0102	0.2	I	12/06/10 22:33	CTL0041	CL00619
1,1-Dichloropropene	ND (0.0415)	0.0064		1	12/06/10 22:33	CTL0041	CL00619
1,2,3-Trichlorobenzene	ND (0.0415)	0.0139		1	12/06/10 22:33	CTL0041	CL00619
1,2,3-Trichloropropane	ND (0.0415)	0.0103		1	12/06/10 22:33	CTL0041	CL00619
1,2,4-Trichlorobenzene	ND (0.0415)	0.0091	96	1	12/06/10 22:33	CTL0041	CL00619
1,2,4-Trimethylbenzene	ND (0.0415)	0.0080		1	12/06/10 22:33	CTL0041	CL00619
1,2-Dibromo-3-Chloropropane	ND (0.249)	0.0830	0.5	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dibromoethane	ND (0.0415)	0.0105	0.01	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichlorobenzene	ND (0.0415)	0.0059	510	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichloroethane	ND (0.0415)	0.0111	0.9	1	12/06/10 22:33	CTL0041	CL00619
1,2-Dichloropropane	ND (0.0415)	0.0109	1.9	1	12/06/10 22:33	CTL0041	CL00619
1,3,5-Trimethylbenzene	ND (0.0415)	0.0073		1	12/06/10 22:33	CTL0041	CL00619
1,3-Dichlorobenzene	ND (0.0415)	0.0052	430	1	12/06/10 22:33	CTL0041	CL00619
1,3-Dichloropropane	ND (0.0415)	0.0093		1	12/06/10 22:33	CTL0041	CL00619
i,4-Dichlorobenzene	ND (0.0415)	0.0110	27	1	12/06/10 22:33	CTL0041	CL00619
1,4-Dioxane - Screen	ND (4.15)	1.39		1	12/06/10 22:33	CTL0041	CL00619
1-Chiorohexane	ND (0.0415)	0.0079		1	12/06/10 22:33	CTL0041	CL00619
2,2-Dichloropropane	ND (0.0830)	0.0142		1	12/06/10 22:33	CTL0041	CL00619
2-Butanone	ND (1.04)	0.240	10000	1	12/06/10 22:33	CTL0041	CL00619
2-Chlorotoluene	ND (0.0415)	0.0117		1	12/06/10 22:33	CTL0041	CL00619
2-Hexanone	ND (0.415)	0.0715		1	12/06/10 22:33	CTL0041	CL00619
4-Chlorotoluene	ND (0.0415)	0.0054		1	12/06/10 22:33	CTL0041	CL00619
4-Isopropyltoluene	ND (0.0415)	0.0074		1	12/06/10 22:33	CTL0041	CL00619
4-Methyl-2-Pentanone	ND (0.415)	0.0500	1200	1	12/06/10 22:33	CTL0041	CL00619
Acetone	ND (1,04)	0.307	7800	1	12/06/10 22:33	CTL0041	CL00619
Benzene	ND (0.0415)	0.0067	2.5	1	12/06/10 22:33	CTL0041	CL00619

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 9: Initial Volume: 20.3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

RI - RES DEC

Analyte Bromobenzene	Results (MRL) ND (0.0415)	MDL 0.0114	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 12/06/10 22:33	Sequence CTL0041	Batch CL00619
Bromochloromethane	ND (0.0415)	0.0135		1	12/06/10 22:33	CTL0041	CL00619
Bromodichloromethane	ND (0.0415)	0.0057	10	1	12/06/10 22:33	CTL0041	CL00619
Bromoform	ND (0.0415)	0.0120	81	1	12/06/10 22:33	CTL0041	CL00619
Bromomethane	ND (0.0830)	0.0277	0.8	1	12/06/10 22:33	CTL0041	CL00619
Carbon Disulfide	ND (0.0415)	0.0061		1	12/06/10 22:33	CTL0041	CL00619
Carbon Tetrachloride	ND (0.0415)	0.0072	1.5	1	12/06/10 22:33	CTL0041	CL00619
Chlorobenzene	ND (0.0415)	0.0066	210	1	12/06/10 22:33	CTL0041	CL00619
Chloroethane	ND (0.0830)	0.0277		1	12/06/10 22:33	CTL0041	CL00619
Chloroform	ND (0.0415)	0.0086	1.2	1	12/06/10 22:33	CTL0041	CL00619
Chloromethane	ND (0.0830)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
cis-1,2-Dichloroethene	ND (0.0415)	0.0103	630	1	12/06/10 22:33	CTL0041	CL00619
cis-1,3-Dichloropropene	ND (0.0415)	0.0094		1	12/06/10 22:33	CTL0041	CL00619
Dibromochloromethane	ND (0.0415)	0.0105	7.6	1	12/06/10 22:33	CTL0041	CL00619
Dibromomethane	ND (0.0415)	0.0131		1	12/06/10 22:33	CTL0041	CL00619
Dichlorodifluoromethane	ND (0.0415)	0.0072		1	12/06/10 22:33	CTL0041	CL00619
Diethyl Ether	ND (0.0415)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
Di-isopropyl ether	ND (0.0415)	0.0078		1	12/06/10 22:33	CTL0041	CL00619
Ethyl tertiary-butyl ether	ND (0.0415)	0.0105		1	12/06/10 22:33	CTL0041	CL00619
Ethylbenzene	ND (0.0415)	0.0054	71	1	12/06/10 22:33	CTL0041	CL00619
Hexachlorobutadiene	ND (0.0415)	0.0139	8.2	1	12/06/10 22:33	CTL0041	CL00619
Isopropylbenzene	ND (0.0415)	0.0073	27	1	12/06/10 22:33	CTL0041	CL00619
Methyl tert-Butyl Ether	ND (0.0415)	0.0066	390	1	12/06/10 22:33	CTL0041	CL00619
Methylene Chloride	ND (0.208)	0.0109	45	1	12/06/10 22:33	CTL0041	CL00619
Naphthalene	ND (0.0415)	0.0109	54	1	12/06/10 22:33	CTL0041	CL00619
n-Butylbenzene	ND (0.0415)	0.0102		1	12/06/10 22:33	CTL0041	CL00619
n-Propylbenzene	ND (0.0415)	0.0101		1	12/06/10 22:33	CTL0041	CL00619
sec-Butylbenzene	ND (0.0415)	0.0056		1	12/06/10 22:33	CTL0041	CL00619
Styrene	ND (0.0415)	0.0055	13	1	12/06/10 22:33	CTL0041	CL00619
tert-Butylbenzene	ND (0.0415)	0.0097		1	12/06/10 22:33	CTL0041	CL00619
Tertiary-amyl methyl ether	ND (0.0415)	0.0060		1	12/06/10 22:33	CTL0041	CL00619



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: Initial Volume: 20,3 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

RI-RES DEC

Analyte	Results (MRL)	MDL	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
Tetrachloroethene	ND (0.0415)	0.0139	12	1	12/06/10 22:33	CTL0041	CL00619
Tetrahydrofuran	ND (0.415)	0.107		1	12/06/10 22:33	CTL0041	CL00619
Toluene	ND (0.0415)	0.0105	190	1	12/06/10 22:33	CTL0041	CL00619
trans-1,2-Dichloroethene	ND (0.0415)	0.0136	1100	1	12/06/10 22:33	CTL0041	CL00619
trans-1,3-Dichloropropene	ND (0.0415)	0.0128		1	12/06/10 22:33	CTL0041	CL00619
Trichloroethene	ND (0.0415)	0.0086	13	1	12/06/10 22:33	CTL0041	CL00619
Trichlorofluoromethane	ND (0.0415)	0.0110		1	12/06/10 22:33	CTL0041	CL00619
Vînyl Acetate	ND (0.208)	0.0086		1	12/06/10 22:33	CTL0041	CL00619
Vinyl Chloride	ND (0.0415)	0.0137	0.02	1	12/06/10 22:33	CTL0041	CL00619
Xylene O	ND (0.0415)	0.0080	110	1	12/06/10 22:33	CTL0041	CL00619
Xylene P,M	ND (0.0830)	0.0161	110	1	12/06/10 22:33	CTL0041	CL00619
Xylenes (Total)	ND (0.125)		110	1	12/06/10 22:33		[CALC]

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	102 %		70-130
Surrogate: 4-Bromofluorobenzene	105 %		70-130
Surrogate: Dibromofluoromethane	111 %		70-130
Surrogate: Tokiene-d8	110 %		70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: Initial Volume: 20.1 Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: SEP

Prepared: 12/8/10 18:00

8100M Total Petroleum Hydrocarbons

	RI - RES DEC									
Analyte Total Petroleum Hydrocarbons	Results (MRL) ND (39.3)		<u>Limit</u> 500	<u>DF</u> 1	<u>Analyzed</u> 12/08/10 21:01	Sequence CTL0066	Batch CL00819			
	%Recovery	Qualifier	Limits							
Surrogate: O-Terphenyl	01 %		40-140							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: Initial Volume: 14.5 Final Volume: 0.5 Extraction Method: 3546 ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

RI - RES DEC

Analyte 1,1-Biphenyl	Results (MRL) ND (0.363)	Limit 0.8	<u>DF</u>	Analyzed 12/07/10 10:21	Sequence CTL0044	Batch CL00623
1,2,4-Trichlorobenzene	ND (0.363)	96	1	12/07/10 10:21	CTL0044	CL00623
1,2-Dichlorobenzene	ND (0.363)	510	1	12/07/10 10:21	CTL0044	CL00623
1,3-Dichlorobenzene	ND (0.363)	430	1	12/07/10 10:21	CTL0044	CL00623
1,4-Dichlorobenzene	ND (0.363)	27	1	12/07/10 10:21	CTL0044	CL00623
2,3,4,6-Tetrachlorophenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
2,4,5-Trichlorophenol	ND (0.363)	330	1	12/07/10 10:21	CTL0044	CL00623
2,4,6-Trichlorophenol	ND (0.363)	58	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dichlorophenol	ND (0.363)	30	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dimethylphenol	ND (0.363)	1400	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dinitrophenol	ND (1.82)	160	1	12/07/10 10:21	CTL0044	CL00623
2,4-Dinitrotoluene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
2,6-Dinitrotoluene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Chloronaphthalene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Chlorophenol	ND (0.363)	50	1	12/07/10 10:21	CTL0044	CL00623
2-Methylnaphthalene	ND (0.363)	123	1	12/07/10 10:21	CTL0044	CL00623
2-Methylphenol	ND (0.363)		I	12/07/10 10:21	CTL0044	CL00623
2-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
2-Nitrophenol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
3,3'-Dichlorobenzidine	ND (0.726)	1.4	1	12/07/10 10:21	CTL0044	CL00623
3+4-Methylphenol	ND (0.726)		1	12/07/10 10:21	CTL0044	CL00623
3-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4,6-Dinitro-2-Methylphenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
4-Bromophenyl-phenylether	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Chloro-3-Methylphenol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Chloroaniline	ND (0.726)	310	1	12/07/10 10:21	CTL0044	CL00623
4-Chloro-phenyl-phenyl ether	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Nitroaniline	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
4-Nitrophenol	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
Acenaphthene	ND (0.363)	43	1	12/07/10 10:21	CTL0044	CL00623
Acenaphthylene	ND (0.363)	23	1	12/07/10 10:21	CTL0044	CL00623



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 9: Initial Volume: 14.5 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

RI - RES DEC

Analyte Acetophenone	Results (MRL) ND (0.726)	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 12/07/10 10:21	Sequence CTL0044	Batch CL00623
Aniline	ND (0.726)		1	12/07/10 10:21	CTL0044	CL00623
Anthracene	ND (0.363)	35	1	12/07/10 10:21	CTL0044	CL00623
Azobenzene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Benzo(a)anthracene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
Benzo(a)pyrene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Benzo(b)fluoranthene	ND (0.363)	0.9	I	12/07/10 10:21	CTL0044	CL00623
Benzo(g,h,i)perylene	ND (0.363)	0.8	1	12/07/10 10:21	CTL0044	CL00623
Benzo(k)fluoranthene	ND (0.363)	0.9	1	12/07/10 10:21	CTL0044	CL00623
Benzoic Acid	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623
Benzyl Alcohol	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
bis(2-Chloroethoxy)methane	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
bis(2-Chloroethyl)ether	ND (0.363)	0.6	1	12/07/10 10:21	CTL0044	CL00623
bis(2-chloroisopropyl)Ether	ND (0.363)	9.1	1	12/07/10 10:21	CTL0044	CL00623
bis(2-Ethylhexyl)phthaiate	ND (0.363)	46	1	12/07/10 10:21	CTL0044	CL00623
Butylbenzylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Carbazole	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Chrysene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Dibenzo(a,h)Anthracene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Dibenzofuran	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Diethylphthalate	ND (0.363)	340	1	12/07/10 10:21	CTL0044	CL00623
Dimethylphthalate	ND (0.363)	1900	1	12/07/10 10:21	CTL0044	CL00623
Di-n-butylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Di-n-octylphthalate	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Fluoranthene	ND (0.363)	20	1	12/07/10 10:21	CTL0044	CL00623
Fluorene	ND (0.363)	28	1	12/07/10 10:21	CTL0044	CL00623
Hexachlorobenzene	ND (0.182)	0.4	1	12/07/10 10:21	CTL0044	CL00623
Hexachlorobutadiene	ND (0.363)	8.2	1	12/07/10 10:2	CTL0044	CL00623
Hexachlorocyclopentadiene	ND (1.82)		1	12/07/10 10:23	CTL0044	CL00623
Hexachloroethane	ND (0.363)	46	1	12/07/10 10:2	CTL0044	CL00623
Indeno(1,2,3-cd)Pyrene	ND (0.363)	0.9	1	12/07/10 10:2	CTL0044	CL00623



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-GFGrab08 Date Sampled: 12/03/10 14:00

Percent Solids: 9.
Initial Volume: 14.5
Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1012057 ESS Laboratory Sample ID: 1012057-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 12/6/10 17:00

8270C Semi-Volatile Organic Compounds

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Limits

<u>Analyte</u>	Results (MRL)	Limit	<u>DF</u>	Analyzed	Sequence	Batch
Isophorone	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Naphthalene	ND (0.363)	54	1	12/07/10 10:21	CTL0044	CL00623
Nitrobenzene	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
N-Nitrosodimethylamine	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
N-Nitroso-Di-n-Propylamine	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
N-nitrosodiphenylamine	ND (0.363)		1	12/07/10 10:21	CTL0044	CL00623
Pentachlorophenol	ND (1.82)	5.3	1	12/07/10 10:21	CTL0044	CL00623
Phenanthrene	ND (0.363)	40	1	12/07/10 10:21	CTL0044	CL00623
Phenol	ND (0.363)	6000	1	12/07/10 10:21	CTL0044	CL00623
Pyrene	ND (0.363)	13	1	12/07/10 10:21	CTL0044	CL00623
Pyridine	ND (1.82)		1	12/07/10 10:21	CTL0044	CL00623

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	,	
Surrogate: 1,2-Dichlorobenzene-d4	68 %	30-130
Surrogate: 2,4,6-Tribromophenol	86 %	30-130
Surrogate: 2-Chlorophenol-d4	70 %	30-130
Surragate: 2-Fluorabiphenyi	68 %	30-130
Surragate: 2-Fluorophenal	<i>72</i> %	30-130
Surrogate: Nitrobenzene-d5	72 %	30-130
Surrogate: Phenol-d6	77 %	30-130
Surrogate: p-Terphenyl-d14	96 %	30-130

%Recovery



The Microbiology Division of Thielsch Engineering, Inc.



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

%REC

Quality Control Data

Spike

Analyte	Result	MRL.	Units	Level	Result	%REC	Umits	RPD	Umlt	Qualifier
		3050B/	6000/7000 T	otal Metz	als					
otch CL00601 - 3050B										
lank										
ntimony	ND	5.0	mg/kg wet							
rsenic	ND	2.5	mg/kg wet							
eryllium	ND	0.10	mg/kg wet							
admium	ND	0.50	mg/kg wet							
hromium	ND	1.0	mg/kg wet							
opper	ND	2.5	mg/kg wet							
ad	ND	5.0	mg/kg wet							
ckel	ND	2.5	mg/kg wet							
denium	ND	5.0	mg/kg wet							
lver	ND	0.50	mg/kg wet							
nallium	ND	0.25	mg/kg wet							
nc	ND	2.5	mg/kg wet							
CS										
rtimony	98 8	17.6	mg/kg wet	121.0		82	80-120			
senia	94.3	8.8	mg/kg wet	109.0		86	80-120			
eryllium	80.0	0.37	mg/kg wet	92.10		87	80-120			
dmlum	103	1.76	mg/kg wet	110.0		93	80-120			
oromium	83.7	3.5	mg/kg wet	93.40		90	80-120			
оррег	69.2	8.8	mg/kg wet	74.70		93	80-120			
and	149	17.6	mg/kg wet	152.0		98	80-120			
ickel	104	8.8	mg/kg wet	109.0		96	80-120			
Benium	187	17.6	mg/kg wet	207.0		90	80-120			
Iver	45.4	1.76	mg/kg wet	51.90		88	80-120			
hallom	165	43.4	mg/kg wet	171.0		96	80-120			
nc	257	8.8	mg/kg wet	299.0		86	80-120			
PP Plane										
CS Dup ntimony	118	18.2	mg/kg wet	121.0		98	80-120	16	20	
rsenic	95.9	9.1	mg/kg wet	109.0		88	80-120	2	20	
eryllium	79.4	0.38	mg/kg wet	92.10		86	80-120	0.8	20	
admium	100	1.83	mg/kg wet	110.0		91	80-120	2	20	
nomium	85.1	3.6	mg/kg wet	93.40		91	BO-120	2	20	
opper	68.9	9.1	mg/kg wet	74.70		92	80-120	0.5	20	
sad	148	18.2	mg/kg wet	152.0		98	BO-120	0.4	20	
ickel	104	9.1	mg/kg wet	109.0		95	80-120	0.7	20	
elenium.	188	18.2	mg/kg wet	207.0		91	80-120	0.9	20	
ilver	46.5	1.83	mg/kg wet	51.90		90	80-120	2	20	
hallium	160	45.0	mg/kg wet	171.0		93	80-120	3	20	
inc	253	9.1	mg/kg wet	299.0		85	80-120	2	20	
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The Microbiology Division of Thielsch Engineering, Inc.



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RPD

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CERTIFICATE OF ANALYSIS

Client Name: RC & D

Analyte

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

%REC

%REC

Limits

RPD

Quality Control Data

Units

MRL

Result

Splke

Level

Source

Result

	3050B/6000/7000 Total Metals									
Batch CL00602 - 747	71A									
Mercury		ND	0.033	mg/kg wet						
ics										
Mercury		17.5	1.62	mg/kg wet	16.30		107	60-120		
LCS Dup										
Mercury		18.4	1.62	mg/kg west	16.30		113	80-120	5	20
Suplicate .	Source: 1012057-01									
Hercury		ND	0.030	mg/kg dry		ND				35
4atrix Spike	Source: 1012057-01									
Hercury		0.185	0.033	mg/kg dry	0.1974	ND	94	75-125		
Matrix Spike Dup	Source: 1012057-01									
Mercury		0.205	0.034	mg/kg dry	0.2071	ND	99	75-125	10	35

5035/8260B Volatile Organic Compounds / Methanol

Batch	CL00619	-	5035
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Blank

1,1,1,2-Tetrachloroethane	ND	0.100	mg/kg wet	
1,1,1-Trichloroethane	ND	0.0500	mg/kg wet	
1,1,2,2-Tetrachioroethane	ND	0.0500	mg/kg wet	
1,1,2-Trichlomethane	ND	0.0500	mg/kg wet	
1,1-Dichloroethane	ND	0.0500	mg/kg wet	
1,1-Dichioroethene	ND	0.0500	mg/kg wet	
1,1-Dichloropropene	ND	0.0500	mg/kg wet	
1,2,3-Trichlorobenzene	ND	0.0500	mg/kg wet	
1,2,3-Trichloropropane	ND	0.0500	mg/kg wet	
1,2,4-Trichlorobenzene	ND	0.0500	mg/kg wet	
1,2,4-Trimethylbenzene	ND	0.0500	mg/kg wet	
1,2-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet	
1,2-Dibromoethane	ND	0.0500	mg/kg wet	
1,2-Dichlorobenzene	ND	0,0500	mg/kg wet	
1,2-Dichloroethane	ND	0.0500	mg/kg wet	
1,2-Dichloropropane	ND	0.0500	mg/kg wet	
1,3,5-Trimethylbenzene	ND	0.0500	mg/kg wet	
1,3-Dichlorobenzene	ND	0.0500	mg/kg wet	
1,3-Dichloropropane	ND	0.0500	mg/kg wet	
1,4-Dichlorobenzene	ND	0.0500	mg/kg wet	
1,4-Dioxane - Screen	ND	5.00	mg/kg wet	
1-Chlorohexane	ND	0.0500	mg/kg wet	
2,2-Dichloropropane	ND	0.100	mg/kg wet	
2-Butanone	ND	1.25	mg/kg wet	
2-Chlorotoluene	ND	0.0500	mg/kg wet	
2-Hextnone	ND	0.500	mg/kg wet	
4-Chloratatuene	ND	0.0500	mg/kg wet	
4-Isopropyltoluene	ND	0.0500	mg/kg wet	
4-Methyl-2-Pentarione	ND	0.500	mg/kg wet	

185 Frances Avenue, Cranston, RJ 02910-2211

Tel: 401-461-7181

Quality

Dependability

Fax: 401-461-4486

• Service

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

			-	Spike	Source		%REC		RPD		1
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	∐mit	Qualifler	

5035/8260B	Volatile	Organic	Compounds	/ Methanol
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ntch CL00619 - 5035							
etone	ND	1.25	mg/kg wet				
nzene	ND	0.0500	mg/kg wet				
mobenzene	ND	0.0500	mg/kg wet				
emochloromethane	ND	0.0500	mg/kg wet				
omodichloromethane	ND	0.0500	mg/kg wet				
omoform	ND	0.0500	mg/kg wet				
omornethane	ND	0.100	mg/kg wet				
rbon Disulfide	ND	0.0500	mg/kg wet				
rbon Tetrachloride	ИD	0.0500	mg/kg wet				
lorobenzene	ND	0.0500	mg/kg wet				
loroethane	ИD	0.100	mg/kg wet				
molonol	ND	0.0500	mg/kg wet				
loromethane	ND	0.100	mg/kg wet				
-1,2-Dichloroethene	ND	0.0500	mg/kg wet				
s-1,3-Dichioropropene	ND	0.0500	mg/kg wet				
bromochloromethane	ND	0.0500	mg/kg wet				
bromomethane	ND	0.0500	mg/kg wet				
chlorodifluoromethane	ND	0.0500	mg/kg wet				
ethyl Ether	ND	0.0500	mg/kg wet				
-Isopropyl ether	ND	0.0500	mg/kg wet				
ryl tertiary-butyl ether	ND	0.0500	mg/kg wet				
hylbenzene	ND	0.0500	mg/kg wet				
exachlorobutadiene	ND	0.0500	mg/kg wet				
propylbenzene	ND	0.0500	mg/kg wet				
sthyl tert-Butyl Ether	ND	0.0500	mg/kg wet				
thylene Chloride	ND	0.250	mg/kg wet				
aphthalene	ND	0.0500	mg/kg wet				
Butylbenzene	ND	0.0500	mg/kg wet				
Propylbenzene	ND	0.0500	mg/kg wet				
c-Butylbenzene	ND	0.0500	mg/kg wet				
yrene	ND	0.0500	mg/kg wet				
rt-Butylbenzene	ND	0.0500	mg/kg wet				
ertiary-amyl methyl ether	ND	0.0500	mg/kg wet				
etrachloroethene	ND	0.0500	mg/kg wet				
etraînydrofuran	ND	0.500	mg/kg wet				
oluene	ND	0.0500	mg/kg wet				
ans-1,2-Dichloroethene	ND	0.0500	mg/kg wet				
ans-1,3-Dichloropropene	ND	0.0500	mg/kg wet				
ichloroethene	ND	0.0500	mg/kg wet				
nyl Acetate	ND	0.250	mg/kg wet				
nyl Chloride	ND	0.0500	mg/kg wet				
ylene O	ND	0.0500	mg/kg wet				
ylene P,M	ND	0.100	mg/kg wet				
•	2,20		mg/kg wet	2.500	88	70-130	
urrogate: 1,2-Dichloroethane-d4	2.25		mg/kg wet	2.500	90	70-130	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

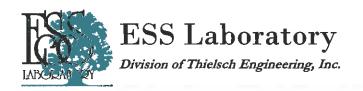
Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

				Spike	Source		%REC		RPD		
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Umit	Qualifier	

rogate: Dibromofluoromethane rogate: Toluene-d8			mg/kg wet	2.500	91	
ogota. Totochi oo	2,32		mg/kg wet	2.500	93	70-130
1,2-Tetrachloroethane	2.43	0.100	mg/kg wet	2.500	97	70-130
1-Trichioroethane	2.41	0.0500	mg/kg wet	2.500	96	70-130
2,2-Tetrachloroethane	2.45	0.0500	mg/kg wet	2,500	98	70-130
2-Trichloroethane	2,24	0.0500	mg/kg wet	2.500	90	70-130
Dichloroethane	2.37	0.0500	mg/kg wet	2.500	95	70-130
Dichloroethene	2,66	0.0500	mg/kg wet	2.500	106	70-130
Dichloropropene	2.63	0.0500	mg/kg wet	2,500	105	70-130
3-Trichlorobenzene	2,28	0.0500	mg/kg wet	2.500	91	70-130
3-Trichloropropane	2.60	0.0500	mg/kg wet	2.500	104	70-130
4-Trichlorobenzene	2.44	0.0500	mg/kg wet	2.500	97	70-130
4-Trimethylbenzene	2.47	0.0500	mg/kg wet	2.500	99	70-130
-Dibromo-3-Chloropropane	2.68	0.300	mg/kg wet	2,500	107	70-130
-Dibromoethane	2,47	0.0500	mg/kg wet	2.500	99	70-130
Dichlorobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130
Dichloroethane	2.43	0.0500	mg/kg wet	2.500	97	70-130
Dichloropropane	2.62	0.0500	mg/kg wet	2.500	105	70-130
-Trimethylbenzene	2,50	0.0500	mg/kg wet	2.500	100	70-130
Dichlorobenzene	2.42	0.0500	mg/kg wet	2,500	97	70-130
Nichiloropropane	2.49	0.0500	mg/kg wet	2.500	99	70-130
chlorobenzene	2.40	0.0500	mg/kg wet	2.500	96	70-130
ioxane - Screen	58,2	5.00	mg/kg wet	50.00	116	44-241
orohexane	2.55	0.0500	mg/kg wet	2,500	102	70-130
ichloropropane	2,55	0.100	mg/kg wet	2.500	102	70-130
tanone	12.3	1.25	mg/kg wet	12.50	98	70-130
uranone hiorotoluene	2.31	0.0500	mg/kg wes	2.500	92	70-130
exanone	13.2	0.500	mg/kg wet	12.50	106	70-130
iexanone Inlorotoluene		0.0500		2.500	95	70-130
	2.38 2.29	0.0500	mg/kg wet mg/kg wet	2.500	92	70-130 70-130
sopropyitoluene	13.9	0.500	mg/kg wet mg/kg wet	12.50	111	70-130
ethyl-2-Pentanone		1.25		12.50	76	70-130 70-130
zene zene	9.52		mg/kg wet		100	
	2.51	0.0500	mg/kg wet	2.500	97	70-130 70-130
nobenzené	2.42	0.0500	mg/kg wet	2.500		
nochloromethane	2.58	0.0500	mg/kg wet	2.500	103	70-130
modichloromethane	2,43	0.0500	mg/kg wet	2.500	97	70-130
oform	2.56	0.0500	mg/kg wet	2.500	102	70-130
nomethane	3.05	0.100	mg/kg wet	2.500	122	70-130
on Disuffide	2.18	0.0500	mg/kg wet	2.500	87	70-130
on Tetrachloride	2.59	0.0500	mg/kg wet	2.500	103	70-130
orobenzene	2.42	0.0500	mg/kg wet	2.500	97	70-130
proethane	3.00 2.37	0.100	mg/kg wet mg/kg wet	2.500 2.500	120 95	70-130 70-130



The Microbiology Division of Thielsch Engineering, Inc.



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

%REC

Quality Control Data

Spike

Source

Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
	5035/8	8260B Volati	le Organic C	ompound	is / Meth	anol				
atch CL00619 - 5035										
hloromethane	2,40	0.100	mg/kg wet	2.500		96	70-130			
s-1,2-Dichloroethene	2.67	0.0500	mg/kg wet	2.500		107	70-130			
s-1,3-Dichloropropene	2.51	0.0500	mg/kg wet	2.500		100	70-130			
ibromochloromethane	2.56	0.0500	mg/kg wet	2.500		102	70-130			
ibromomethane	2.37	0.0500	mg/kg wet	2.500		95	70-130			
ichlorodifluoromethane	2.72	0.0500	mg/kg wet	2.500		109	70-130			
Hethyl Ether	2.41	0.0500	mg/kg wet	2.500		96	70-130			
H-sopropyl ether	2.61	0.0500	mg/kg wet	2.500		104	70-130			
thyl tertiary-butyl ether	2.49	0.0500	mg/kg wet	2.500		100	70-130			
tirylbenzene	2.52	0.0500	mg/kg wet	2.500		101	70-130			
exachlorobutadiene	2.51	0.0500	mg/kg wet	2.500		100	70-130			
sopropylberizene	2.04	0.0500	mg/kg wet	2.500		82.	70-130			
lethyl tert-Butyl Ether	2.53	0.0500	mg/kg wet	2.500		101	70-130			
lethylene Chloride	2.69	0.250	mg/kg wet	2.500		108	70-130			
laphthalene	2.26	0.0500	mg/kg wet	2.500		90	70-130			
-Butylberzené	2.62	0.0500	mg/kg wet	2.500		105	70-130			
-Propylbenzene	2.56	0.0500	mg/kg wet	2.500		102	70-130			
ez-Butylbenzene	2.50	0.0500	mg/kg wet	2,500		100	70-130			
tyrene	2.46	0.0500	mg/kg wet	2.500		99	70-130			
ert-Butylbenzene	2.39	0.0500	mg/kg wet	2.500		96	70-130			
ertiary-amyl methyl ether	2.57	0.0500	mg/kg wet	2.500		103	70-130			
etrachioroethene	2.37	0.0500	mg/kg wet	2.500		95	70-130			
etrahydrofuran	2.45	0.500	mg/kg wet	2.500		98	70-130			
oluene	2.48	0.0500	mg/kg wet	2.500		99	70-130			
rans-1,2-Dichloroethene	2.33	0.0500	mg/kg wet	2.500		93	70-130			
rans-1,3-Dichloropropene	2.34	0.0500	mg/kg wet	2,500		94	70-130			
Trichlomethene	2.54	0.0500	mg/kg wet	2.500		102	70-130			
/inyl Acetate	2.86	0.250	mg/kg wet	2.500		114	70-130			
/inyl Otlaride	2.82	0.0500	mg/kg wet	2.500		113	70-130			
(ylene O	2.43	0.0500	mg/kg wet	2.500		97	70-130			
Kylene P,M	5.03	0.100	mg/kg wet	5.000		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	2.30		mg/kg wet	2.500		92	70-130			
Surrogate: 4-Bromofluorobenzene	2.33		mg/kg wet	2.500		93	70-130			
Surrogata: Dibromofluoromethane	2.31		mg/kg wet	2.500		92	70-130			
Surrogata: Toluene-d8	2.42		mg/kg wet	2.500		97	70-130			
CS Dup										
I,1,1,2-Tetrachloroethane	2.45	0.100	mg/kg wet	2.500		98	70-130	0.7	25	
1,1,1-Trichloroethane	2.42	0.0500	mg/kg wet	2.500		97	70-130	0.5	25	
I,1,2,2-Tetrachloroethane	2.53	0.0500	mg/kg wet	2.500		101	70-130	4	25	
I,1,2-Trichloroethane	2.28	0.0500	mg/kg wet	2.500		91	70-130	2	25	
				2.500		95	70-130	D.4	25	
1,1-Dichloroethane	2.36	0.0500	mg/kg wet						25	
1,1-Dichloroethene	2.76	0.0500	mg/kg wet	2,500		110	70-130	4		
l,1-Dichloropropene	2.68	0.0500	mg/kg wet	2.500		107	70-130	2	25	
i,2,3-Trichlorobenzene	2.42	0.0500	mg/kg wet	2.500 2.500		97 109	70-130 70-130	6 5	25 25	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Limit	Qualifier

	5035/	8260B Volati	ile Organic C	ompounds /	Methanol				
Batch CL00619 - 5035									
1,2,4-Trichlorobenzene	2.54	0.0500	mg/kg wet	2.500	102	70-130	4	25	
1,2,4-Trimethylbenzene	2.51	0.0500	mg/kg wet	2.500	100	70-130	2	25	
1,2-Dibromo-3-Chloropropane	2.83	0.300	mg/kg wet	2,500	113	70-130	5	25	
1,2-Dibromoethane	2.49	0.0500	mg/kg wet	2,500	100	70-130	1	25	
1,2-Dichlorobenzene	2.49	0.0500	mg/kg wet	2.500	100	70-130	3	25	
1,2-Dichloroethane	2.46	0.0500	mg/kg wet	2.500	99	70-130	1	25	
1,2-Dichloropropane	2.58	0.0500	mg/kg wet	2,500	103	70-130	1	25	
1,3,5-Trimethylbenzene	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
1,3-Dichlorobenzene	2,49	0.0500	mg/kg wet	2.500	99	70-130	2	25	
1,3-Dichloropropane	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
1,4-Dichlorobenzene	2.40	0.0500	mg/kg wet	2.500	96	70-130	0.1	25	
1,4-Dioxane - Screen	61.7	5.00	mg/kg wet	50.00	123	44-241	6	200	
1-Chlorohexane	2.52	0.0500	mg/kg wet	2.500	101	70-130	1	25	
2,2-Dichloropropane	2.48	0.100	mg/kg wet	2.500	99	70-130	3	25	
2-Butanone	13.0	1.25	mg/kg wet	12.50	104	70-130	6	25	
2-Chlorotokuene	2.48	0.0500	mg/kg wet	2.500	99	70-130	7	25	
2-Hexanone	14.0	0.500	rng/kg wet	12.50	112	70-130	5	25	
4-Chlorotoluene	2.42	0.0500	mg/kg wet	2.500	97	70-130	2	25	
4-1sopropyttoluene	2.33	0.0500	mg/kg wet	2.500	93	70-130	2	25	
4-Methyl-2-Pentanone	14.4	0.500	mg/kg wet	12.50	115	70-130	4	25	
Acetone	12.1	1.25	mg/kg wet	12.50	97	70-130	24	25	
Benzene	2.49	0.0500	mg/kg wet	2.500	100	70-130	0.8	25	
Bromobenzene	2.48	0.0500	mg/kg wet	2.500	99	70-130	2	25	
Bromochloromethane	2.57	0.0500	mg/kg wet	2.500	103	70-130	0.2	25	
Bromodichloromethane	2.44	0.0500	mg/kg wet	2.500	98	70-130	0.5	25	
Bromoform	2,66	0.0500	mg/kg wet	2.500	106	70-130	4	25	
Bromomethane	2.87	0.100	mg/kg wet	2.500	115	70-130	6	25	
Carbon Disulfide	2.72	0.0500	mg/kg wet	2.500	109	70-130	22	25	
Carbon Tetrachloride	2.54	0.0500	mg/kg wet	2.500	102	70-130	2	25	
Chlorobenzene	2.46	0.0500	mg/kg wet	2.500	99	70-130	2	25	
Chloroethane	2.89	0.100	mg/kg wet	2.500	116	70-130	4	25	
Chloroform	2.37	0.0500	mg/kg wet	2.500	95	70-130	0.3	25	
Chloromethane	2.44	0.100	mg/kg wet	2.500	98	70-130	2	25	
ds-1,2-Dichloroethene	2,64	0.0500	mg/kg wet	2.500	106	70-130	1	25	
cis-1,3-Dichloropropene	2.58	0.0500	mg/kg wet	2.500	103	70-130	3	25	
Dibromochloromethane	2.56	0.0500	mg/kg wet	2,500	102	70-130	0.08	25	
Dibromomethane	2.39	0.0500	mg/kg wet	2.500	96	70-130	1	25	
Dichlorodifluoromethane	2.77	0.0500	mg/kg wet	2,500	111	70-130	2	25	
Diethyl Ether	2.50	0.0500	mg/kg wet	2.500	100	70-130	4	25	
Di-isopropyl ether	2.61	0.0500	mg/kg wet	2.500	105	70-130	0.3	25	
Ethyl tertiary-butyl ether	2.54	0.0500	mg/kg wet	2.500	102	70-130	2	25	
Ethylbenzene	2.54	0.0500	mg/kg wet	2.500	102	70-130	0.6	25	
Hexachlorobutadiene	2.64	0.0500	mg/kg wet	2.500	106	70-130	5	25	
Isopropy/benzene	2,06	0.0500	mg/kg west	2.500	82	70-130	0.7	25	
Methyl tert-Butyl Ether	2.61	0.0500	mg/kg wet	2.500	105	70-130	3	25	
			•						



The Microbiology Division of Thielsch Engineering, Inc.

04 DEC



DDD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Umit	Qualifle
	5035/	3260B Volati	le Organic C	ompound	ds / Meth	anol				
ntch Cl.00619 - 5035										
ethylene Chloride	2.68	0.250	mg/kg wet	2,500		107	70-130	0.7	25	
phthalene	2.51	0.0500	mg/kg wet	2.500		100	70-130	11	25	
Butylbenzene	2.72	0.0500	mg/kg wet	2.500		109	70-130	4	25	
Propylbenzene	2.49	0.0500	mg/kg wet	2.500		100	70-130	3	25	
c-Butylbenzene	2.54	0.0500	mg/kg wet	2.500		102	70-130	2	25	
yrene	2.49	0.0500	mg/kg wet	2.500		100	70-130	1	25	
rt-Butylberizene	2.42	0.0500	mg/kg wet	2.500		97	70-130	1	25	
ertiary-amyl methyl ether	2.60	0.0500	mg/kg wet	2.500		104	70-130	1	25	
strachioroethene	2,38	0.0500	mg/kg wet	2,500		95	70-130	0.5	25	
trahydrofuran	2.47	0.500	mg/kg wet	2.500		99	70-130	0.7	25	
oluene	2.49	0.0500	mg/kg wet	2.500		100	70-130	0.2	25	
ans-1,2-Dichloroethene	2.33	0.0500	mg/kg wet	2.500		93	70-130	0.09	25	
ans-1,3-Dichloropropene	2.39	0.0500	mg/kg wet	2.500		95	70-130	2	25	
richioroethene	2.55	0.0500	mg/kg wet	2.500		102	70-130	0.6	25	
nyl Acetate	2.85	0.250	mg/kg wet	2.500		114	70- 130	0.2	25	
nyi Chloride	2,84	0.0500	mg/kg wet	2.500		113	70-130	0.5	25	
riene O	2.45	0.0500	mg/kg wet	2.500		98	70-130	1	25	
rlene P,M	4.99	0.100	mg/kg wet	5.000		100	70-130	0.8	25	
rrogate: 1,2-Dichloroethane-d4	2.33		mg/kg wet	2.500		93	70-130			
rrogate: 4-Bromofluorobenzene	2.34		mg/kg wet	2,500		94	70-130			
urrugate: Dibromofluoromethane	2.28		mg/kg wet	2.500		91	70-130			
urrogate; Toluene-d8	2.42		mg/kg wet	2.500		97	70-130			
latrix Spike Source: 1012057-01										
1,1,2-Tetrachloroethane	1.89	0.0778	mg/kg dry	1.945	ИD	97	70-130			
1,1-Trichioroethane	1,99	0.0389	mg/kg dry	1.945	ND	102	70-130			
1,2,2-Tetrachioroethane	2.05	0.0389	mg/kg dry	1.945	ND	106	70-130			
1,2-Trichloroethane	1.88	0.0389	mg/kg dry	1.945	ND	96	70-130			
1-Dichloroethane	1 99	0.0389	mg/kg dry	1.945	ND	102	70-130			
1-Dichloroethene	2.33	0.0389	mg/kg dry	1.945	ND	120	70-130			
,1-Dichloropropene	2.26	0.0389	mg/kg dry	1.945	ND	116	70-130			
,2,3-Trichlorobenzene	1.67	0.0389	mg/kg dry	1,945	ND	86	70-130			
,2,3-Trichloropropane	2.11	0.0389	mg/kg dry	1.945	ND	108	70-130			
,2,4-Trichlorobenzene	1.80	0.0389	mg/kg dry	1.945	ND	93	70-130			
,2,4-Trimethylbenzene	2.02	0.0369	mg/kg dry	1.945	ND	104	70-130			
,2-Dibromo-3-Chloropropane	2.03	0.233	mg/kg dry	1,945	ND	105	70-130			
,2-Dibromoethane	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130			
,2-Dichlorobenzene	1.93	0.0389	mg/kg dry	1.945	ND	99	70-130			
,2-Dichioroethane	1.93	0.0389	mg/kg dry	1.945	ND	99	70-130			
,2-Dichloropropane	2.21	0.0389	mg/kg dry	1.945	ND	114	70-130			
,3,5-Trimethylbenzene	2.05	0.0389	mg/kg dry	1.945	ND	105	70-130			
,3-Dichlorobenzene	1.94	0.0389	mg/kg dry	1.945	ND	100	70-130			
,3-Dichloropropane	2.01	0.0389	mg/kg dry	1.945	ND	103	70-130			
,4-Dichlorobenzene	1.90	0.0389	mg/kg dry	1.945	ND	9.8	70-130			
,4-Dioxane - Screen	37.1	3.89	mg/kg dry	38.89	ND	95	44-241			
-Chlorohexane	2.11	0.0389	mg/kg dry	1.945	ND	109	70-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Umlt	Qualifie
	5035/	3260B Volati	le Organic C	ompound	ds / Meth	anol				
atch CL00619 - 5035										
,2-Dichloropropane	1,78	0.0778	mg/kg dry	1,945	ND	91	70-130			
-Butanone	10.3	0.973	mg/kg dry	9.723	ND	106	70-130			
-Chlorotoluene	2.15	0.0389	mg/kg dry	1.945	ND	110	70-130			
-Hexanone	10.6	0.389	mg/kg dry	9.723	ND	109	70-130			
-Chlorotoluene	1.93	0.0389	mg/kg dry	1.945	ND	99	70-130			
-Isopropyttoluene	1.88	0.0389	mg/kg dry	1.945	ND	97	70-130			
Methyl-2-Pentanone	11.8	0.389	mg/kg dry	9.723	ND	121	70-130			
cetone	7.73	0.973	mg/kg dry	9.723	ND	80	70-130			
enzene	2.14	0.0389	mg/kg dry	1.945	ND	110	70-130			
omobenzene	1.97	0.0389	mg/kg dry	1.945	ND	102	70-130			
omochloromethane	2.19	0.0389	mg/kg dry	1.945	ND	112	70-130			
romodichloromethane	1.94	0.0389	mg/kg dry	1.945	ND	100	70-130			
motomo	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130			
romomethane	1.96	0.0778	mg/kg dry	1.945	ND	101	70-130			
arbon Disulfide	2.12	0.0389	mg/kg dry	1,945	ND	109	70-130			
arbon Tetrachloride	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130			
rlorobenzene	1,97	0.0389	mg/kg dry	1.945	ND	102	70-130			
nloroethane	2.36	0.0778	mg/kg dry	1.945	ND	121	70-130			
nioroform	1,94	0.0389	mg/kg dry	1.945	ND	100	70-130			
nloromethane	2.13	0.0778	mg/kg diy	1.945	ND	109	70-130			
s-1,2-Dichioroethene	2.21	0.0389	mg/kg dry	1.945	ND	113	70-130			
s-1,3-Dichloropropene	2.07	0.0389	mg/kg dry	1.945	ND	107	70-130			
bromochloromethane	1.95	0.0389	mg/kg dry	1.945	ND	101	70-130			
bromomethane	1.93	0.0389	mg/kg dry	1.945	ND	99	70-130			
ichlorodifluoromethane	2.32	0.0389	mg/kg dry	1.945	ND	119	70-130			
ethyl Ether	2.06	0.0389	mg/kg dry	1.945	ND	106	70-130			
i-isopropyl ether	2,22	0.0389	mg/kg dry	1.945	ND	114	70-130			
hyl tertiary-butyl ether	2.09	0.0389	mg/kg dry	1.945	ND	107	70-130			
thylbenzene	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130			
exachlorobutadiene	1.77	0.0389	mg/kg dry	1.945	ND	91	70-130			
copropylbenzene	1.73	0.0389	mg/kg dry	1.945	ND	69	70-130			
lethyl test-Butyl Ether	2.09	0.0389	mg/kg dry	1.945	ND	107	70-130			
ethylene Chloride	2.29	0.195	mg/kg dry	1,945	ND	118	70-130			
aphthalene	1.55	0.0389	mg/kg dry	1.945	ND	80	70-130			
-Butylbenzene	2.09	0.0389	mg/kg dry	1,945	ND	108	70-130			
Propylbenzene	1.96	0.0389	mg/kg dry	1.945	ND	101	70-130			
sc-Butylbenzene	2.07	0.0389	mg/kg dry	1.945	ND	107	70-130			
yrene	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130			
rt-Butylbenzene	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130 70-130			
	2.12	0.0389		1.945	ND	100	70-130			
ertiary-amyl methyl ether			mg/kg dry							
etrachioroethene	1.93	0.0389	mg/kg dry	1.945 1.945	ND ND	99 111	70-130			
atembra edenfi i en n	7 15									
	2.15	0.389	mg/kg dry				70-130			
etrahydrofuran oluene ans-1,2-Dichloroethene	2.15 2.09 1.97	0.0389	mg/kg dry mg/kg dry	1.945	ND ND	107	70-130 70-130 70-130			



The Microbiology Division of Thielsch Engineering, Inc.

%REC

%REC

Umits

RPD



Qualifier

RPD

Umit

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Analyte

4-Methyl-2-Pentanone

Bromochloromethane

Bromodichioromethane

Acetone

Benzene

Bromobenzene

Bromoform

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

MRL

Result

Quality Control Data

Units

Splke

Level

Source

Result

	5035/	8260B Volati	ile Organic C	ompound	s / Meth	anol				
Batch CL00619 - 5035										
Trichloroethene	2,13	0.0389	mg/kg dry	1.945	ND	110	70-130			
/inyl Acetate	2.29	0.195	mg/kg dry	1.945	ND	118	70-130			
/inyl Chloride	2.50	0.0389	mg/kg dry	1.945	ND	129	70-130			
yiene O	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130			
ylene P,M	4.04	0.0778	mg/kg dry	3,889	ND	104	70-130			
urrogate: 1,2-Dichloroethane-d4	1.98		mg/kg dry	1.945		102	70-130			
Gurogate: 4-Bromoffuorobenzene	2.03		mg/kg dry	1.945		105	70-130			
Surrogate: Dibromofluoromethane	2.06		mg/kg dry	1.945		106	70-130			
Surragate: Taluene-d8	2.15		mg/kg dry	1.945		111	70-130			
tatrix Spike Dup Source: 1012057-01										
,1,1,2-Tetrachloroethane	1.84	0.0778	mg/kg dry	1.945	ND	95	70-130	2	30	
,1,1-Trichloroethane	1.94	0.0389	mg/kg dry	1.945	ND	100	70-130	3	30	
,1,2,2-Tetrachloroethane	2.00	0.0389	mg/kg dry	1.945	ND	103	70-130	2	30	
,1,2-Trichloroethane	1.85	0.0389	mg/kg dry	1.945	ND	95	70-130	2	30	
,1-Dichloroethane	1.96	0.0389	mg/kg dry	1.945	ND	101	70-130	1	30	
,1-Dichloroethene	2.24	0.0389	mg/kg dry	1.945	ND	115	70-130	4	30	
,1-Dichloropropene	2.09	0.0389	mg/kg dry	1.945	ND	108	70-130	8	30	
,2,3-Trichlorobenzene	1.77	0.0389	mg/kg dry	1,945	ND	91	70-130	6	30	
,2,3-Trichloropropane	2.12	0.0389	mg/kg dry	1.945	ND	109	70-130	0.4	30	
,2,4-Trichlorobenzene	1,90	0.0389	mg/kg dry	1.945	ND	98	70-130	5	30	
,2,4-Trimethylbenzene	1.97	D.0389	mg/kg dry	1.945	ND	101	70-130	3	30	
,2-Dibromo-3-Chloropropane	2.03	0.233	mg/kg dry	1.945	ND	104	70-130	0.3	30	
,2-Dibromoethane	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	3	30	
,2-Dichlorobenzene	1.89	0.0389	mg/kg dry	1.945	ND	97	70-130	2	30	
,2-Dichloroethane	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	2	30	
1,2-Dichloropropane	2.12	0.0389	mg/kg dry	1.945	ND	109	70-130	4	30	
1,3,S-Trimethylbenzene	1.98	0.0389	mg/kg dry	1.945	ND	102	70-130	4	30	
1,3-Dichlorobenzene	1.87	0.0389	mg/kg dry	1.945	ND	96	70-130	4	30	
1,3-Dichloropropane	1.95	0.0389	mg/kg dry	1.945	ND	100	70-130	3	30	
1,4-Dichlorobenzene	1.84	0.0389	mg/kg dry	1.945	ND	95	70-130	3	30	
1,4-Dioxane - Screen	44.9	3.89	mg/kg dry	38.89	ND	115	44-241	19	200	
-Chlorohexane	1.96	0.0389	mg/kg dry	1.945	ND	101	70-130	7	30	
,2-Dichloropropane	1.69	0.0778	mg/kg dry	1.945	ND	87	70-130	5	30	
2-Butanone	10.1	0.973	mg/kg dry	9.723	ND	103	70-130	2	30	
?-Chlorotoluene	1.88	0.0389	mg/kg dry	1.945	ND	97	70-130	13	30	
2-Hexanone	10.4	0.389	mg/kg dry	9.723	ND	107	70-130	2	30	
-Chlorotoluene	1,87	0.0389	mg/kg dry	1.945	ND	96	70-130	3	30	
-Isopropytoluene	1.63	0.0389	mg/kg dry	1.945	ND	94	70-130	3	30	
								_		

11.5

7.71

2.07

1.90

2.12

1,91

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0.973

0.0389

0.0389

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0.0389

0.0389

mg/kg dry

mg/kg dry

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mg/kg dry

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mg/kg dry

ND

ND

ND

ND

ND

9.723

9.723

1.945

1.945

1.945

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119

79

106

109

98

98

70-130

70-130

70-130

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70-130

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70-130

2

0.2

3

3

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30

30

30

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30

30



The Microbiology Division of Thielsch Engineering, Inc.



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CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

OLDEC.

Quality Control Data

				Splke	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Limit	Qualifie
	5035/	8260B Volati	ie Organic C	ompound	is / Meth	anol				
atch CL00619 - 5035										
romomethane	2.06	0.0778	mg/kg dry	1.945	ND	106	70-130	5	30	
arbon Disulfide	2.13	0.0389	mg/kg dry	1.945	ND	109	70-130	0.4	30	
arbon Tetrachloride	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130	0.4	30	
ilorobenzene	1.89	0.0389	mg/kg dry	1.945	ND	97	70-130	4	30	
lioroethane	2,15	0.0778	mg/kg dry	1.945	ND	111	70-130	9	30	
loroform	1.89	0.0389	mg/kg dry	1,945	ND	97	70-130	2	30	
loromethane	2.09	0.0778	mg/kg dry	1.945	ND	107	70-130	2	30	
-1,2-Dichloroethene	2.17	0.0389	mg/kg dry	1.945	ND	111	70-130	2	30	
-1,3-Dichloropropene	2.03	0.0389	mg/kg dry	1.945	ND	105	70-130	2	30	
bromochloromethane	1.90	0.0389	mg/kg dry	1.945	ND	97	70-130	3	30	
bromomethane	1.88	0.0389	mg/kg dry	1.945	ND	97	70-130	3	30	
chlorodifluoromethane	2.23	0.0389	mg/kg dry	1.945	ND	115	70-130	4	30	
ethyl Ether	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	1	30	
-isopropyl ether	2.16	0.0389	mg/kg dry	1.945	ND	111	70-130	3	30	
hyl tertiary-butyl ether	2.03	0.0389	mg/kg dry	1.945	ND	104	70-130	3	30	
hylbenzene	1.97	0.0389	mg/kg dry	1.945	ND	101	70-130	3	30	
exachlorobutadiene	1.87	0.0389	mg/kg dry	1.945	ND	96	70-130	5	30	
opropylbenzene	1.66	0.0389	mg/kg dry	1.945	ND	85	70-130	4	30	
stryl tert-Butyl Ether	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	2	30	
ethylene Chloride	2.22	0.195	mg/kg dry	1.945	ND	114	70-130	3	30	
aphthalene	1.77	0.0389	mg/kg dry	1.945	ND	91	70-130	13	30	
Butylbenzene	2,11	0.0389	mg/kg dry	1.945	ND	108	70-130	0.7	30	
Propylbenzene	2.04	0.0389	mg/kg dry	1.945	ND	105	70-130	4	30	
x:-Butylbenzene	2.03	0.0389	mg/kg drγ	1.945	ND	105	70-130	2	30	
утеле	1.95	0.0389	mg/kg dry	1.945	ND	100	70-130	2	30	
rt-Butylbenzene	1.90	0.0389	mg/kg dry	1.945	ND	98	70-130	2	30	
ertiary-armyl methyl ether	2.08	0.0389	mg/kg dry	1.945	ND	107	70-130	2	30	
etrachloroethene	1.82	0.0389	mg/kg dry	1,945	ND	94	70-130	6	30	
etrahydrofuran	2.14	0.389	mg/kg dry	1.945	ND	110	70-130	0.4	30	
pluene	2.02	0.0389	mg/kg dry	1.945	ND	104	70-130	3	30	
ans-1,2-Dichloroethene	1.91	0.0389	mg/kg dry	1.945	ND	98	70-130	3	30	
ans-1,3-Dichloropropene	1.81	0.0389	mg/kg drγ	1.945	ND	93	70-130	3	30	
richloroethene	2.08	0.0389	mg/kg dry	1.945	ND	107	70-130	3	30	
inyl Acetate	2.25	0.195	mg/kg dry	1.945	ND	116	70-130	2	30	
inyl Chloride	2.40	0.0389	mg/kg dry	1.945	ND	123	70-130	4	30	
riene O	1,91	0.0389	mg/kg dry	1.945	ND	98	70-130	4	30	
ylene P,M	3.86	0.0778	mg/kg dry	3.689	ND	99	70-130	4	30	
urrogate: 1,2-Dichloroethane-d4	1.94		mg/kg dry	1.945		100	70-130			
urrogate: 4-Bromofluorobenzene	1.98		mg/kg dry	1.945		102	70-130			
iurrogate: Dibromoffyoromethane	2.01		mg/kg dry	1.945		103	70-130			
Surrogate: Taluene-d8	2.08		mg/kg dry	1.945		107	70-130			

8100M Total Petroleum Hydrocarbons

Batch CL00819 - 3546



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

A	Man. II.	MPI	11-4-	Spike	Source	W.DEC	%REC	DD	RPD	Qualific
Analyte	Result	MRL.	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
		8100M Tot	al Petroleum	Hydroca	rbons					
witch CL00819 - 3546										
Decane (C10)	ND	0.2	mg/kg wet							_
Occosane (C22)	ND	0.2	mg/kg wet							
odecane (C12)	ND	0.2	mg/kg wet							
icosane (C20)	ND	0.2	mg/kg wet							
exacosane (C26)	ND	0.2	mg/kg wet							
exadecane (C16)	ND	0.2	mg/kg wet							
onadecane (C19)	ND	0.2	mg/kg wet							
onane (C9)	ND	0.2	mg/kg wet							
ctacosane (C28)	ND	0.2	mg/kg wet							
ciadecane (C18)	ND	0.2	mg/kg wet							
etracosane (C24)	ND	0.2	mg/kg wet							
etradecane (C14)	ND	0.2	mg/kg wet							
otal Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
riacontane (C30)	ND	0.2	mg/kg wet							
	5.06		mg/kg wet	5.000		101	40-140			
urrogate: O-Terphenyl	5,00			3,300						
ecane (C10)	1.9	0.2	mg/kg wet	2,500		77	40-140			
ocosane (C22)	2.2	0.2	mg/kg wet	2.500		90	40-140			
odecane (C12)	2.2	0.2	mg/kg wet	2.500		87	40-140			
icosane (C20)	2.3	0.2	mg/kg wet	2,500		94	40-140			
exacosane (C26)	2,4	0.2	mg/kg wet	2.500		94	40-140			
exadecane (C16)	2.3	0.2	mg/kg wet	2.500		92	40-140			
onadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140			
ionane (C3)	1.6	0.2	mg/kg wet	2.500		64	30-140			
onane (C3) Ictacosane (C28)	2.4	0.2	mg/kg wet	2.500		95	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		92	40-140			
	2.4	0.2	mg/kg wet	2.500		95	40-140			
etracosane (C24)				2.500		93 87	40-140			
Fetradecane (C14)	2.2	0.2 37 E	mg/kg wet	35.00		86	40-140			
Total Petroleum Hydrocarbons	30.0	37.5	mg/kg wet mg/kg wet	2.500		97	40-140			
riacontane (C30)		0.2	ing/kg wez	4.300		3/	10,140		_	
Surrogate: O-Terphenyl	4.68		mg/kg wet	5.000		94	40-140			
CS Dup										
Perzine (C10)	2.0	0.2	mg/kg wet	2,500		81	40-140	S	50	
Pocosane (C22)	2.2	0.2	mg/kg wet	2.500		89	40-140	02	50	
Oodecane (C12)	2.3	0.2	mg/kg wet	2.500		90	40-140	4	50	
icosane (C20)	2.3	0.2	mg/kg wet	2.500		93	40-140	0.8	50	
lexacosane (C26)	2.3	0.2	mg/kg wet	2.500		93	40-140	0.6	50	
lexadecane (C16)	2.3	0.2	mg/kg wet	2.500		93	40-140	1	50	
lonadecane (C19)	2.4	0.2	mg/kg wet	2,500		96	40-140	0.3	50	
Ionane (C9)	1.6	0.2	mg/kg wet	2.500		65	30-140	1	50	
Octacosane (C28)	2.4	0.2	mg/kg wet	2.500		94	40-140	0.7	50	
Actadecane (C18)	2.3	0.2	mg/kg wet	2.500		92	40-140	0.4	50	
Fetracosane (C24)	2.4	0.2	mg/kg wet	2.500		94	40-140	0.2	50	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Quality Control Data

		- Zaan								
Amalida		Mini	11-4-	Splke	Source	0/ DEC	%REC	000	RPD Limit	Qualifler
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualine
		8100M Tot	al Petroleum	Hydroca	rbons					
Setch CL00819 - 3546									_	
Tetradecane (C14)	2.3	0.2	mg/kg wet	2,500		91	40-140	4	50	
Total Petroleum Hydrocarbons	30.2	37.5	mg/kg wet	35.00		86	40-140	8.0	50	
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		96	40-140	0.8	50	
Surrogate: O-Terphenyi	4.71		mg/kg wet	5.000		94	40-140			
	1	8270C Semi	-Volatile Orga	anic Corr	pounds					
Batch CL00623 - 3546										
Blank		-								
1,i-Biphenyi	ND	0.333	mg/kg wet							
1,2,4-Trichiorobenzene	ND	0.333	mg/kg wet							
1,2-Dichlorobenzene	ND	0.333	mg/kg wet							
1,3-Dichlorobenzene	ND	0.333	mg/kg wet							
1,4-Dichlorobenzene	ND	0.333	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	1.67	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet							
2,4-Dichlorophenol	ND	0.333	mg/kg wet							
2,4-Dimethylphenol	ND	0.333	mg/kg wet							
2,4-Dinitrophenol	ND	1.67	mg/kg wet							
2,4-Dinitrotoluene	ND	0.333	mg/kg wet							
2,6-Dinitrotoluene	ND	0.333	mg/kg wet							
2-Chloronaphthaiene	ND	0.333	mg/kg wet							
2-Chiorophenol	ND	0.333	mg/kg wet							
2-Methylnaphthalene	ND	0.333	mg/kg west							
2-Methylphenol	ND	0.333	mg/kg wet							
2-Nitroaniline	ND	0.333	mg/kg wet							
2-Nitrophenol	ИD	0.333	mg/kg wet							
3,3 '-Dichlorobenzidine	ND	0.667	mg/kg wet							
3+4-Methylphenol	ND	0.667	mg/kg wet							
3-Nitroaniline	ND	0.333	mg/kg wet							
4,6-Dinitara-2-Methylphenol	ND	1.67	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.333	mg/kg wet							
4-Chloroaniline	ND	0.667	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.333	mg/kg wet							
4-Nitroaniline	ND	0.333	mg/kg wet							
4-Nitrophenol	ND	1.67	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg west							
Acetophenone	ND	0.667	mg/kg wet							
Aniline	ND	0.667	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Azobenzene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	NO	0.333	mg/kg wet							



Result

MRL

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



Qualifler

RPD

Umit

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Analyte

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

%REC

%REC

Limits

RPD

Quality Control Data

Units

Spike

Level

Source

Result

Anatyte	Result	MKL	Offics	LEVE	Result	TOREC	Links	KPD .	UITIL	Qualifie
		8270C Semi-	Volatile Orga	inic Com	pounds					
atch CL00623 - 3546										
enzo(a)pyrenė	ND	0.167	mg/kg wet					_		
enzo(b)fluoranthene	ND	0.333	mg/kg wet							
enzo(g,h,i)perylene	ND	0.333	mg/kg wet							
enzo(k)fluoranthene	ND	0.333	mg/kg wet							
enzoic Acid	ND	1,67	mg/kg wet							
enzyl Alcohol	ND	0.333	mg/kg wet							
is(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
is(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
is(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
is(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
utylbenzylphthalate	ND	0.333	mg/kg wet							
arbazole	ND	0.333	mg/kg wet							
Thrysene	ND	0.167	mg/kg wet							
Hbenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Olbenzofuran	ND	0.333	mg/kg wet							
Piethylphthalate	ND	0.333	mg/kg wet							
Pimethylphthalate	ND	0.333	mg/kg wet							
n-h-buty/phthalate	ND	0.333	mg/kg wet							
Hn-octylphthalate	ND	0.333	mg/kg wet.							
luoranthene	ND	0.333	mg/kg wet							
luorene	ND	0.333	mg/kg wet							
lexachlorobenzene	ND	0.167	mg/kg wet							
fexachlorobutadiene	ND	0.333	mg/kg wet							
lexachlorocyclopentadiene	ND	1,67	mg/kg wet							
lexachloroethane	ND	0.333	mg/kg wet							
ndeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
sophorone	ND	0.333	mg/kg wet							
laphthalene	ND	0.333	mg/kg wet							
Vitrobenzene	ND	0.333	mg/kg wet							
I-Nitrosodimethylamine	ND	0.333	mg/kg wet							
l-Nitroso-Di-n-Propylamine	ND	0.333	mg/kg wet							
i-nitrosodiphenylamine	ND	0.333	mg/kg wet							
Pentachlorophenol	ND	1.67	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Phenol	ND	0.333	mg/kg wet							
yrene	ND	0.333	mg/kg wet							
yridine	ND	1.67	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.81		mg/kg wet	3,333		84	30-130			
Surrogate: 2,4,6-Tribromophenol	4.71		mg/kg wet	5.000		94	30-130			
Surrogate: 2-Chlorophenal-d4	4.22		mg/kg wet	5.000		84	30-130			
Surrogate: 2-Auorobiphenyl	2.75		mg/kg wet	3.333		82	30-130			
Surrogate: 2-Auorophenol	4.22		mg/kg wet	5.000		84	<i>30-130</i>			
Surrogate: Nitrobenzene-d5	2.93		mg/kg wet	3.333		88	30-130			

4.49

3.35

Surrogate: p-Terphenyl-d14

Surrogate: Phenol-d6

mg/kg wet

mg/kg wet

30-130

30-130

90

5.000

3.333



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CL00623 - 3546

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile Organic Compounds	8270	C Semi	·Volatile	Organic	Compounds
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Samen C1.00623 - 3546						
						
,1-Biphenyl	2.95	0.333	mg/kg wet	3.333	89	40-140
,2,4-Trichlorobenzene	2.83	0.333	mg/kg wet	3.333	85	40-140
,2-Dichlorobenzene	2.90	0.333	mg/kg wet	3.333	87	40-140
,3-Dichlorobenzene	2.86	0.333	mg/kg wet	3.333	86	40-140
,4-Dichlorobenzene	2.88	0.333	mg/kg west	3.333	86	40-140
,3,4,6-Tetrachlorophenol	3.00	1.67	mg/kg wet	3.333	90	30-130
,4,5-Trichlorophenol	2.99	0.333	mg/kg wet	3.333	90	30-130
,4,6-Trichlorophenol	3.25	0.333	mg/kg wet	3.333	98	30-130
,4-Dichlorophenol	3.19	0.333	mg/kg wet	3.333	96	30-130
,4-Dimethylphenol	2.95	0.333	mg/kg wet	3.333	89	30-130
,4-Dinitrophenol	2.82	1.67	mg/kg wet	3.333	85	30-130
4-Dinitrotoluene	3.02	0.333	mg/kg wet	3.333	90	40-140
,6-Dinitrototuene	3.12	0.333	mg/kg wet	3,333	94	40-140
-Chloronaphthalene	2.90	0.333	mg/kg wet	3.333	87	40-140
-Chlorophenol	2.95	0.333	mg/kg wet	3.333	89	30-130
-Methylnaphthalene	3.07	0.333	mg/kg wet	3.333	92	40-140
-Methylphenol	2.87	0.333	mg/kg wet	3.333	86	30-130
-Nitroanline	3.25	0.333	mg/kg wet	3.333	98	40-140
-Nitrophenol	3.10	0.333	mg/kg wet	3.333	93	30-130
3 '-Dichlorobenzidine	2.16	0,667	mg/kg wet	3.333	65	40-140
+4-Methylphenol	6.13	0.667	mg/kg wet	6.667	92	30-130
Nitroaniline	2.35	0.333	mg/kg wet	3.333	71	40-140
,6-Dinitro-2-Methylphenol	3.19	1.67	mg/kg wet	3.333	96	30-130
-Bromophenyl-phenylether	3.24	0.333	mg/kg wet	3.333	97	40-140
-Chloro-3-Methylphenol	3.20	0.333	mg/kg wet	3.333	96	30-130
-Chloroaniline	1.87	0.667	mg/kg wet	3.333	56	40-140
-Chloro-phenyl-phenyl ether	2.99	0.333	mg/kg wet	3.333	90	40-140
-Nitroaniline	3.23	0.333	mg/kg wet	3.333	97	40-140
-Nitrophenol	2.76	1.67	mg/kg wet	3.333	83	30-130
Acenaphtherie	3.16	0.333	mg/kg wet	3.333	95	40-140
cenaphthylene	2.99	0.333	mg/kg wet	3.333	90	40-140
cetophenone	3.01	0.667	mg/kg wet	3.333	90	40-140
infline	2.20	0.667	mg/kg wet	3.333	66	40-140
inthracene	3.32	0.333	ma/kg wet	3.333	100	40-140
zobenzene	2.85	0.333	mg/kg wet	3.333	86	40-140
Benzo(a)anthracene	3.23	0.333	mg/kg wet	3.333	97	40-140
Senzo(a)pyrene	3.31	0.167	mg/kg wet	3.333	99	40-140
ienzo(b)fluoranthene	3.64	0.333	mg/kg wet	3.333	109	40-140
lenzo(g,h,i)perylene	3.40	0.333	mg/kg wet	3.333	102	40-140
Benzo(k) fluoranthene	3.16	0.333	mg/kg wet	3.333	95	40-140
Benzoic Acid	2,85	1.67	mg/kg wet	3.333	85	40-140
Senzyl Alcohol	2.81	0.333	mg/kg wet	3.333	84	40-140
is(2-Chloroethoxy)methane	2.79	0.333	mg/kg wet	3.333	84	40-140
ois(2-Chloroethyf)ether	3.78	0.333	mg/kg wet	3.333	114	40-140



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

	%REC	RPD								
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Umit	Qualifler
8270C Semi-Volatile Organic Compounds										

atch CL00623 - 3546						40.4.77			
is(2-chloroisopropyl)Ether	3.04	0.333	mg/kg wet	3.333	91	40-140			
ls(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333	94	40-140			
utylbenzylphthalate	3.12	0.333	mg/kg wet	3.333	94	40-140			
arbazole	3.03	0.333	mg/kg wet	3.333	91	40-140			
hrysene	3.34	0.167	mg/kg wet	3.333	100	40-140			
ibenzo(a,h)Anthracene	3.41	0.167	mg/kg wet	3.333	102	40-140			
ibenzofuran	2.96	0.333	mg/kg wet	3.333	69	40-140			
riethylphthalate	2.98	0.333	mg/kg wet	3.333	89	40-140			
imethylphthalate	3.05	0.333	mg/kg wet	3.333	91	40-140			
i-n-butylphthalate	2.94	0.333	mg/kg wet	3.333	88	40-140			
vi-n-octylphthalate	3.27	0.333	mg/kg wet	3.333	98	40-140			
luoranthene	3.09	0.333	mg/kg wet	3.333	93	40-140			
luorene	3.28	0.333	mg/kg wet	3.333	98	40-140			
lezichlorobetzené	3.29	0.167	mg/kg wet	3.333	99	40-140			
iexachlorobutadiene	2.95	0.333	mg/kg wet	3.333	88	40-140			
lexachlorocyclopentadiene	2.43	1.67	mg/kg wet	3.333	73	40-140			
lexachloroethane	2.56	0.333	mg/kg wet	3.333	77	40-140			
ndeno(1,2,3-cd)Pyrene	3.51	0.333	mg/kg wet	3.333	105	40-140			
sopharane	2.34	0.333	mg/kg wet	3.333	70	40-140			
aphthalene	2.92	0.333	mg/kg wet	3,333	88	40-140			
itrobenzene	2.85	0.333	mg/kg wet	3.333	85	40-140			
-Nitrosodimethylamine	3.03	0.333	mg/kg wet	3.333	91	40-140			
-Nitroso-Di-n-Propylamine	2.86	0.333	mg/kg wet	3.333	86	40-140			
-nitrosodiphenylamine	3.32	0.333	mg/kg wet	3.333	100	40-140			
entachlorophenol	3.39	1.67	mg/kg wet	3.333	102	30-130			
henanthrene	3.12	0.333	mg/kg wet	3.333	94	40-140			
thenol	2.64	0.333	mg/kg wet	3.333	79	30-130			
утеле	3.30	0.333	mg/kg wet	3.333	99	40-140			
yridine	2,40	1.67	mg/kg wet	3.333	72	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.90		mg/kg wet	3.333	87	30-130			
- '	5.28		mg/kg wet	5.000	106	30-130			
Surrogate: 2,4,6-Tribromophenol Surrogate: 2-Chlorophenol-d4	4.39		mg/kg wet	5.000	88	30-130			
Gurrogate: 2-Fluorobiphenyi	2,91		mg/kg wet	3.333	87	30-130			
	4.27		mg/kg wet	5.000	85	30-130			
Surrogate: 2-Fluorophenol	2.93		mg/kg wet	3,333	88	30-130			
Surrogate: Nitrobenzene-d5 Surrogate: Phenol-d6	4.67		mg/kg wet	5,000	93	30-130			
*	3.12		mg/kg wet	3.333	94	30-130			
Surrogate: p-Terphenyl-d14									
CS Dup	3.00	0.322		2 222	97	40.140	2	30	
,1-Biphenyl	2.90	0.333	mg/kg wet	3.333	87	40-140		30	
,2,4-Trichlorobenzene	2.81	0.333	mg/kg wet	3.333	84	40-140	0.8		
i,2-Dichlorobenzene	2.95	0.333	mg/kg wet	3.333	89	40-140	2	30	
,3-Dichlorobenzene	2.68	0.333	mg/kg wet	3.333	86	40-140	0.8	30	
1,4-Dichiorobenzene	2.83	0.333	mg/kg wet	3.333	85	40-140	2	30	
2,3,4,6-Tetrachlorophenol	3.09	1.67	mg/kg wet	3.333	93	30-130	3	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Umit	Qualifie
	8	3270C Semi-	-Volatile Orga	anic Com	pounds				-	
atch CL00623 - 3546										
4,6-Trichlorophenol	3,18	0.333	mg/kg wet	3.333		96	30-130	2	30	
4-Dichlorophenol	3,23	0.333	mg/kg wet	3.333		97	30-130	1	30	
,4-Dimethylphenol	3.04	0.333	mg/kg wet	3.333		91	30-130	3	30	
4-Dinkrophenol	2,86	1.67	mg/kg wet	3.333		86	30-130	1	30	
4-Dinitrotoluene	3.15	0.333	mg/kg wet	3.333		95	40-140	4	30	
6-Dinitrotoluene	3.22	0.333	mg/kg wet	3.333		97	40-140	3	30	
Chloronaphthalene	2,84	0.333	mg/kg wet	3.333		85	40-140	2	30	
Chlorophenol	3.04	0.333	mg/kg wet	3.333		91	30-130	3	30	
Methylnaphthalene	3,12	0.333	mg/kg wet	3.333		94	40-140	2	30	
Methylphenol	3.02	0.333	mg/kg wet	3.333		91	30-130	5	30	
Nitroantine	3.40	0.333	rng/kg west	3.333		102	40-140	4	30	
-Nitrophenol	3.13	0.333	mg/kg wet	3.333		94	30-130	0.0	30	
3'-Dichlorobenzidine	2.11	0.667	mg/kg wet	3.333		63	40-140	3	30	
+4-Methylphenol	6.16	0.667	mg/kg wet	6,667		92	30-130	0.5	30	
-Nitroaniline	2.52	0.333	mg/kg wet	3.333		76	40-140	7	30	
6-Dinitro-2-Methylphenol	3.15	1.67	mg/kg wet	3.333		94	30-130	1	30	
-Bromophenyl-phenylether	2.97	0.333	mg/kg wet	3.333		89	40-140	9	30	
Chloro-3-Methylphenol	3.33	0.333	mg/kg wet	3,333		100	30-130	4	30	
Chloroaniline	1.98	0.667	mg/kg wet	3.333		59	40-140	6	30	
Chloro-phenyi-phenyi ether	2,97	0.333	mg/kg wet	3.333		89	40-140	0.5	30	
Nitroaniline	2.97	0.333	mg/kg wet	3.333		89	40-140	В	30	
Nitrophenol	2,68	1.67	mg/kg wet	3.333		60	30-130	4	30	
cenaphthene	3.15	0.333	mg/kg wet	3.333		95	40-140	0.4	30	
cenaphthylene	2,99	0.333	mg/kg wet	3.333		90	40-140	0.2	30	
cetophenone	3.30	0.667	mg/kg wet	3.333		99	40-140	9	30	
niline	2.28	0.667	mg/kg wet	3.333		68	40-140	4	30	
nthracene	3.34	0.333	mg/kg wet	3.333		100	40-140	0.5	30	
zobenzene	2,80	0.333	mg/kg wet	3.333		84	40-140	2	30	
enzo(a)anthracene	3.26	0.333	mg/kg wet	3.333		98	40-140	0.6	30	
lenzo(a)pyrene	3.30	0.167	mg/kg wet	3.333		99	40-140	0.4	30	
lerizo(b)fiuoranthene	3.29	0.333	mg/kg wet	3.333		99	40-140	10	30	
enzo(g,h,i)perylene	3,23	0.333	mg/kg wet	3,333		97	40-140	5	30	
enzo(k)fluoranthene	3.54	0.333	mg/kg wet	3.333		106	40-140	11	30	
ienzolc Acid	2.73	1.67	mg/kg wet	3.333		82	40-140	4	30	
Benzyl Alcohol	2.89	0.333	mg/kg wet	3.333		87	40-140	3	30	
is(2-Chloroethoxy)methane	2,76	0.333	mg/kg wet	3.333		83	40-140	1	30	
is(2-Chloroethyl)ether	3.51	0.333	mg/kg wet	3.333		105	40-140	8	30	
is(2-chlorolsopropyl)Ether	3.04	0.333	mg/kg wet	3.333		91	40-140	0.2	30	
s(2-Ethylhexyl)phthalate	3.12	0.333	mg/kg wet	3.333		94	40-140	0.07	30	
utylbenzylphthalate	3.08	0.333	mg/kg wet	3.333		92	40-140	1	30	
Carbazole	3.04	0.333	mg/kg wet	3.333		91	40-140	0.2	30	
Ihrysene	3.32	0.167	mg/kg wet	3.333		100	40-140	0.5	30	
Dibenzo(a,h)Anthracene	3.24	0.167	mg/kg wet	3.333		97	40-140	5	30	
Olbenzofuran	3.03	0.333	mg/kg wet	3.333		91	40-140	2	30	
Diethylphthalate	3.04	0.333	mg/kg wet	3.333		91	40-140	2	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifie
	8	3270C Semi-	-Volatile Orga	nic Com	pounds					
Batch CL00623 - 3546										
Dimethylphthalate	3.08	0.333	mg/kg wet	3.333		93	40-140	1	30	
Di-n-butylphthalate	2.89	0.333	mg/kg wet	3.333		87	40-140	2	30	
N-n-octylphthalate	3.19	0.333	mg/kg wet	3.333		96	40-140	2	30	
luoranthene	3.13	0.333	mg/kg wet	3.333		94	40-140	1	30	
Dorene	3.34	0.333	mg/kg wet	3.333		100	40-140	2	30	
exachlombenzene	3.24	0.167	mg/kg wet	3.333		97	40-140	2	30	
exachlorobutzdiene	2.85	0.333	mg/kg wet	3.333		86	40-140	3	30	
exachlorocyclopentadiene	2.32	1.67	mg/kg wet	3.333		70	40-140	4	30	
exachloroethane	2.70	0.333	mg/kg wet	3.333		81	40-140	5	30	
ndeno(1,2,3-cd)Pyrene	3.31	0.333	mg/kg wet	3.333		99	40-140	6	30	
ophorone	2.38	0.333	mg/kg wet	3.333		72	40-140	2	30	
aphthalene	2.96	0.333	mg/kg wet	3.333		89	40-140	1	30	
litrobenzene	2.92	0.333	mg/kg wet	3.333		88	40-140	3	30	
l-Nitrosadimethylamine	3.08	0.333	mg/kg wet	3,333		92	40-140	2	30	
-Nitroso-Di-n-Propylamine	3.03	0.333	mg/kg wet	3.333		91	40-140	6	30	
-nitrosodiphenylamine	3.20	0.333	mg/kg wet	3.333		96	40-140	4	30	
entachlorophenol	3.28	1.67	mg/kg wet	3.333		99	30-130	3	30	
heranthrene	3.06	0.333	mg/kg wet	3.333		92	40-140	2	30	
henol	3.16	0.333	mg/kg wet	3.333		95	30-130	18	30	
утеле	3.26	0.333	mg/kg wet	3.333		98	40-140	1	30	
yridine	2.69	1.67	mg/kg wet	3.333		81	40-140	11	30	
	2,87		mg/kg wet	3.333		86	30-130	•		
urrogate: 1,2-Dichlorobenzene-d4	5.02		mg/kg wet	5.000		100	30-130			
Currogate: 2,4,6-Tribromophenol	4.46		mg/kg wet	5.000		89	30-130			
urrogate: 2-Chlorophenol-d4	2.83		mg/kg wet	3.333		85	30-130			
Furrogate: 2-Fluorobiphenyl	4.14		mg/kg wet	5.000		83	30-130			
Surrogate: 2-Fluorophenol	2.88		mg/kg wet	3.333		26	30-130			
Surrogate: Nitrobenzene-dS	4.90		mg/kg wet	5.000		98	30-130			
Surrogate: Phenol-d6	3.04		mg/kg wet	3.333		91	30-130			
Surrogate: p-Terphenyl-d14	3701									
tatrix Spike Source: 1012057-01	3.47	0.350	mathe day	3 500	ND	60	40-140			
,1-Biphenyl	2.47	0.358	mg/kg dry	3.580		69	40-140			
,2,4-Trichlorobenzene	2.23	0.358	mg/kg dry	3.580	ND	62				
,2-Dichlorobenzene	2.13	0.358	mg/kg dry	3.580	ND	59	40-140			
,3-Dichlorobenzene	2.07	0.358	mg/kg dry	3.580	ND	58	40-140			
,4-Dichlorobenzene	2.04	0.358	mg/kg dry	3.580	ND	57	40-140			
,3,4,6-Tetrachiorophenol	2.86	1.79	mg/kg dry	3.580	ND	80	30-130			
,4,5-Trichlorophenol	2.73	0.358	mg/kg dry	3.580	ND	76	30-130			
,4,6-Trichlorophenol	2.82	0.358	mg/kg dry	3.580	ND	79	30-130			
,4-Dichlorophenol	2.61	0.358	mg/log dry	3.580	ND	73	30-130			
,4-Dimethylphenol	2.49	0.358	mg/kg dry	3.580	ND	69	30-130			
,4-Dinitrophenol	2.31	1.79	mg/kg dry	3.580	ND	65	30-130			
,4-Dinitrotoluene	3.04	0.358	mg/kg dry	3.580	ND	85	40-140			
,6-Dinitrotoluene	2.94	0.358	mg/kg dry	3,580	ND	82	40-140			
-Chloronaphthalene	2.35	0.358	mg/kg dry	3.580	ND	66	40-140			
-Chiorophenol	2.31	0.358	mg/kg dry	3.580	ND	65	30-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

							_			
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

Batch CL00623 - 3546								
-Methylnaphthalene	2,53	0.358	mg/kg dry	3.580	ND	71	40-140	
-Methylphenol	2.36	0.358	mg/kg dry	3.580	ND	66	30-130	
-Nitroanfline	3.11	0.358	mg/kg dry	3.580	ND	87	40-140	
-Nitrophenol	2.51	0.358	mg/kg dry	3,580	ND	70	30-130	
3 '-Dichlombenzidine	2.92	0.716	mg/kg dry	3.580	ND	82	40-140	
+4-Methylphenol	5.50	0.716	mg/kg dry	7.161	ND	77	30-130	
-Nitroaniline	2.58	0.358	mg/kg dry	3.580	ND	72	40-140	
,6-Dinitro-2-Methylphenol	3.23	1.79	mg/kg dry	3.580	ND	90	30-130	
Bromophenyl-phenylether	3.15	0.358	mg/kg dry	3.580	ND	88	40-140	
Chloro-3-Methylphenol	2.95	0.358	mg/kg dry	3.580	ND	82	30-130	
Chloroaniline	2,14	0.716	mg/kg dry	3,580	ND	60	40-140	
Chloro-phenyl-phenyl ether	2.64	0.358	mg/kg dry	3.580	ND	74	40-140	
Nitroaniline	3.33	0.358	mg/kg dry	3.580	ND	93	40-140	
Nitrophenol	2.77	1.79	mg/kg dry	3.580	ND	77	30-130	
enaphthene	2.76	0.358	mg/kg dry	3.580	ND	77	40-140	
cenaphthylene	2.63	0.358	mg/kg dry	3.580	ND	73	40-140	
zetophenone	2.55	0.716	mg/kg dry	3.580	ND	71	40-140	
niline	2.10	0.716	mg/kg dry	3.580	ND	59	40-140	
nthracene	3.44	0.358	mg/kg dry	3.580	ND	96	40-140	
robenzene	2.81	0.358	mg/kg dry	3.580	ND	76	40- 140	
enzo(a)anthracene	3.39	0.358	mg/kg dry	3.580	ND	95	40-140	
enzo(a)pyrene	3.48	0.179	mg/kg dry	3.580	ND	97	40-140	
enzo(b)fluoranthene	3.65	0.358	mg/kg dry	3.580	ND	102	40-140	
enzo(g,h,i)perylene	3.46	0.358	mg/kg dry	3.580	ND	97	40-140	
enzo(k)fluoranthene	3.52	0.358	mg/kg dry	3.580	ND	98	40-140	
enzoic Acid	1.42	1.79	mg/kg dry	3.580	ND	40	40-140	
enzyl Akohol	2.45	0.358	mg/kg dry	3.580	ND	68	40-140	
is(2-Chloroethoxy)methane	2.47	0.358	mg/kg dry	3.580	ND	69	40-140	
is(2-Chloroethyl)ether	3.02	0.358	mg/kg dry	3.580	ND	84	40-140	
is(2-chlorolsopropyl)Ether	2.26	0.358	mg/kg dry	3.580	ND	63	40-140	
is(2-Ethylhexyl)phthalate	3.34	0.358	mg/kg dry	3.580	ND	93	40-140	
utylbenzylphthalate	3.29	0.358	mg/kg dry	3.580	ND	92	40-140	
arbazole	3.20	0.358	mg/kg dry	3.580	ND	89	40-140	
hrysene	3.55	0.179	mg/kg dry	3.580	ND	99	40-140	
ibenzo(a,h)Anthracene	3.41	0.179	mg/kg dry	3.580	ND	95	40-140	
ibenzofuran	2.65	0.358	mg/kg dry	3.580	ND	74	40 -140	
lethylphthalate	2.84	0.358	mg/kg dry	3.580	ND	79	40-140	
imethylphthalate	2.83	0.358	mg/kg dry	3.580	ND	79	40-140	
-n-butylphthalate	3.15	0.358	mg/kg dry	3.580	ND	88	40-140	
i-n-octylphthalate	3.44	0.358	mg/kg dry	3.580	ND	96	40-140	
luoranthene	3.28	0.358	mg/kg dry	3.580	ND	92	40-140	
luorene	2.98	0.358	mg/kg dry	3.580	ND	83	40-140	
lexachlorobenzene	3.32	0.179	mg/kg dry	3,580	ND	93	40-140	
iexachlorobutadiene	2.20	0.358	mg/kg dry	3.580	ND	61	40-140	
fexachlorocyclopentadiene	1.82	1.79	mg/kg dry	3.580	ND	51	40-140	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Analyte	Result	MRL.	Units	Splke Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifie
		8270C Semi-	Volatile Orga	anic Com	pounds					
Batzh CL00623 - 3546										
iexachloroethane	2.00	0.358	mg/kg dry	3.580	ND	56	40-140			
ndeno(1,2,3-cd)Pyrene	3.58	0.358	mg/kg dry	3.580	ND	100	40-140			
sophorone	2.00	0.358	mg/kg dry	3.580	ND	56	40-140			
laphthalene	2.40	0.358	mg/kg dry	3.580	ND	67	40-140			
itrobenzene	2.28	0.358	mg/kg dry	3.580	ND	64	40-140			
-Nitrosodimethylamine	2.19	0.358	mg/kg dry	3.580	ND	61	40-140			
-Nitroso-Di-n-Propylamine	2.39	0.358	mg/kg dry	3.580	ND	67	40-140			
-ntrosodiphenylamine	3.25	0.358	mg/kg dry	3.580	ND	91	40-140			
entachlorophenol	3.44	1.79	mg/kg dry	3.580	ND	96	30-130			
henanthrene	3.20	0.358	mg/kg dry	3.580	ND	89	40-140			
henol	2.38	0.358	mg/kg dry	3.580	ND	67	30-130			
yrene	3.45	0.358	mg/kg dry	3.580	ND	96	40-140			
yridine	1.53	1.79	mg/kg dry	3.580	ND	43	40-140			
urrogate: 1,2-Dichlorobenzene-d4	2,10		mg/kg dry	3.580		59	30-130			
urrogate: 2,4,6-Tribromophenol	5.18		mg/kg dry	5.371		96	30-130			
итораte: 2-Chiorophenoi-d4	3.46		mg/kg dry	5.371		64	30-130			
urrogate: 2-Fluorobiphenyl	2,40		mg/kg dry	3.580		67	30-130			
urrogate: 2-Auorophenol	3.20		mg/kg dry	5.371		60	30-130			
urrogata: N/trobenzene-d5	2.33		mg/kg dry	3.580		65	30-130			
Surrogata: Phenol-d6	3.78		mg/kg dry	5.371		70	30-130			
Surrogate: p-Terphenyl-d14	3.28		mg/kg dry	3.580		92	30-130			
tatrix Spike Dup Source: 1012057-	01									
,1-Biphenyl	2.58	0.360	mg/kg dry	3.605	ND	71	40-140	4	30	
,2,4-Trichlorobenzene	2,50	0.360	mg/kg dry	3.605	ND	69	40-140	11	30	
,2-Dichlorobenzene	2.56	0.360	mg/kg dry	3.605	ND	71	40-140	19	30	
,3-Dichlorobenzene	2.56	0.360	mg/kg dry	3.605	ND	71	40-140	21	30	
,4-Dichiorobenzene	2.55	0.360	mg/kg dry	3.605	ND	71	40-140	22	30	
,3,4,6-Tetrachlorophenol	2.94	1.81	mg/kg dry	3.605	ND	81	30-130	3	30	
,4,5-Trichlorophenol	2.76	0.360	mg/kg dry	3.605	ND	77	30-130	0.8	30	
	2.87	0.360		3.605	ND	80	30-130	2	30	
,4,6-Trichlorophenol		0.360	mg/kg dry	3.605	ND	75	30-130	3	30	
2,4-Dichlorophenol	2.70	0.360	mg/kg dry	3.605	ND	72	30-130	4	30	
2,4-Dimethylphenol	2.59		mg/kg dry	3.605	ND	66	30-130	3	30	
2,4-Dinitrophenol	2.37	1.81	mg/kg dry		ND	88	40-140	5	30	
2,4-Dinitrotoluene	3.18	0.360	mg/kg dry	3.605	ND	83	40-140	2	30	
?,6-Dinitrotoluene	3.00	0.360	mg/kg dry	3.605						
-Chloronaphthalene	2.45	0.360	mg/kg dry	3.605	ND	68	40-140	4	30	
?-Chlorophenol	2.61	0.360	mg/kg dry	3.605	ND	72	30-130	12	30	
l-Methylnaphthalene	2.68	0.360	mg/kg dry	3.605	ND	74	40-140	6	30	
!-Methylphenol	2.57	0.360	mg/kg dry	3.605	ND	71	30-130	9	30	
-Nitroanline	3,19	0.360	mg/kg dry	3.605	ND	88	40-140	2	30	
?-Nitrophenoi	2.69	0.360	mg/kg dry	3.605	ND	75	30-130	7	30	
,3 '-Dichlorobenzidine	2.65	0.721	mg/kg dry	3.605	ND	74	40-140	10	30	
l+4-Methylphenol	5.65	0.721	mg/kg dry	7.210	ND	78	30-130	3	30	
3-Nitroaniline	2.69	0.360	mg/kg dry	3,605	ND	75	40-140	4	30	
1,6-Dinitro-2-Methylphenol	3.09	1.81	mg/kg dry	3.605	ND	86	30-130	4	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifie
			Volatile Orga							
ntch CL00623 - 3546										
-Bromophenyl-phenylether	2,91	0.360	mg/kg dry	3.605	ND	81	40-140	В	30	
Chloro-3-Methylphenol	3.01	0.360	mg/kg dry	3.605	ND	93	30-130	2	30	
Chlomaniline	2.06	0.721	mg/kg dry	3,605	ND	57	40-140	4	30	
Chloro-phenyl-phenyl ether	2.67	0.360	mg/kg dry	3.605	ND	74	40-140	1	30	
Nitroaniline	3.32	0.360	mg/kg dry	3.605	ND	92	40-140	0.3	30	
Nitrophenol	2,83	1.81	mg/kg dry	3.605	ND	78	30-130	2	30	
enaphthene	2.87	0.360	mg/kg dry	3.605	ND	80	40-140	4	30	
enaphthylene	2,70	0.360	mg/kg dry	3.605	ND	75	40-140	3	30	
ztophenone	2.90	0.721	mg/kg dry	3.605	ND	80	40-140	13	30	
iline	2.37	0.721	mg/kg dry	3.605	ND	66	40-140	12	30	
thracene	3,38	0.360	mg/kg dry	3.605	ND	94	40-140	2	30	
obenzene	2.78	0.360	mg/kg dry	3.605	ND	77	40-140	1	30	
enzo(a)anthracene	3,31	0.360	mg/kg dry	3.605	ND	92	40-140	2	30	
enzo(a)pyrene	3.41	0.181	mg/kg dry	3.605	ND	95	40-140	2	30	
enzo(b)fluoranthene	3.21	0 360	mg/kg dry	3.605	ND	89	40-140	13	30	
nzo(g,h,i)perylene	3.30	0,360	mg/kg dry	3.605	ND	91	40-140	5	30	
enzo(k)fluoranthene	3.74	0.360	mg/kg dry	3,605	ND	104	40-140	6	30	
nzoic Acid	1.54	1,81	mg/kg dry	3.605	ND	43	40-140	8	30	
nzyl Akohol	2.70	0.360	mg/kg dry	3.605	ND	75	40-140	10	30	
(2-Chloroethoxy)methane	2.61	0.360	mg/kg dry	3.605	ND	72	40-140	6	30	
s(2-Chloroethyf)ether	2.98	0.360	mg/kg dry	3.605	ND	83	40-140	1	30	
(2-chlorolsopropyl)Ether	2.61	0.360	mg/kg dry	3.605	ND	72	40-140	15	30	
s(2-Ethylhexyl)phthalate	3.14	0.360	mg/kg dry	3.605	ND	87	40-140	6	30	
itylbenzylphthalate	3.15	0.360	mg/kg dry	3.605	ND	87	40-140	4	30	
rtazole	3.13	0.360	mg/kg dry	3.605	ND	87	40-140	2	30	
	3.44	0.161	mg/kg dry	3.605	ND	95	40-140	3	30	
Irysene hannole h'Authoropea	3.38	0.181	mg/kg dry	3.605	ND	94	40-140	0.7	30	
benzo(a,h)Anthracene benzofuran	2.73	0.360	mg/kg dry	3.605	ND	76	40-140	3	30	
	2.93	0.360	mg/kg dry	3.605	ND	81	40-140	3	30	
ethylphthalate	2.91	0.360	mg/kg dry	3.605	ND	81	40-140	3	30	
methylphthalate	2.96	0.360	mg/kg dry	3.605	ND	82	40-140	6	30	
-n-butylphthalate	3.24	0.360	mg/kg dry	3.605	ND	90	40-140	6	30	
i-n-octy/phthalate voranthene	3.16	0.360	mg/kg dry	3.605	ND	88	40-140	4	30	
	3.10	0.360	mg/kg dry	3.605	ND	86	40-140	4	30	
uorene	3.16	0.181	ing/kg dry	3.605	ND	88	40-140	5	30	
exachlorobenzene	2.48	0.360	mg/kg dry	3.605	ND	69	40-140	12	30	
ovachlorobutadienė	1.96	1.81	mg/kg dry	3.605	ND	54	40-140	7	30	
exachlorocydopentadiene	2.44	0.360	mg/kg dry	3.605	ND	68	40-140	20	30	
exactiloroethane	3.40	0.360	mg/kg dry	3.605	ND	94	40-140	5	30	
deno(1,2,3-cd)Pyrene				3.605	ND	56	40-140	1	30	
ophorone	2.02	0.360	mg/kg dry				40-140 40-140	9		
ophthalene	2.59	0.360 0.360	mg/kg dry	3.605	ND ND	72 71	40-140	12	30 30	
trobenzene	2.56 2.84	0.360	mg/kg dry mg/kg dry	3.605 3.605	ND	71 79	40-140	26	30	
A District of the Address of the American		V.J0U	mu/ka arv	3.005	NU	/3	70"170	40		
-Nitrosodimethylamine -Nitroso-Di-n-Propylamine	2.67	0.360	mg/kg dry	3.605	ND	74	40-140	11	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012057

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifler
		8270C Semi	-Volatile Orga	anic Com	pounds					
Batzh CL00623 - 3546										
Pentachlorophenol	3.32	1.81	mg/kg dry	3.605	ND	92	30-130	4	30	
Phenanthrene	3.18	0.360	mg/kg dry	3.605	ND	88	40-140	0.4	30	
Phenol	2.64	0.360	mg/kg dry	3.605	ND	73	30-130	10	30	
утеле	3.35	0.360	mg/kg dry	3.605	ND	93	40-140	3	30	
yridine	2.14	1.81	mg/kg dry	3,605	ND	59	40-140	33	30	D+
Surrogate: 1,2-Dichlorobenzene-d4	2.51		mg/kg dry	3.605		70	30-130			
Surrogate: 2,4,6-Tribromophenol	4.96		mg/kg dry	5.407		92	30-130			
Surrogate: 2-Chlorophenol-d4	3.90		mg/kg dry	5.407		72	<i>30-130</i>			
Surrogate: 2-Fluorobiphenyl	2.48		mg/kg dry	3.605		69	30-130			
Surrogate: 2-Fluorophenol	<i>3.73</i>		mg/kg dry	5.407		69	30-130			
Surrogate: Nitrobersene-d5	2.53		mg/kg dry	3.605		70	30-130			
Surrogate: Phenol-d6	4.17		mg/kg dry	5.407		77	30-130			
Surrogate: p-Terphenyl-d14	3.09		mg/kg dry	3.605		86	30-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

[CALC] Calculated Analyte

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

Notes and Definitions

U	Analyte included in the analysis, but not detected
Q	Calibration required quadratic regression (Q).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
ï	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1012057

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/out state.pdf

Maine Potable and Non Potable Water: RI0002 http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424 http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301 http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002 http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752 http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911 accredited laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: RC and D
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 10120057
Date Project Due: 12/8/10
Days For Project: 3 Day

Items to be checked upon receipt:

atory ATTW mgineering, Inc. (Cranston, RI 02910-22 Fax (401) 461-4486 m	100 100	Type: P-Poly G-Glass S-Sterile V-VOA Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters sent Yes No NA: [] Pickup The P-Poly G-Glass S-Sterile V-VOA Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters The Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters The Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters The Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters The Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water Date/Time The Marrix: S-Soil SD-Solid D-Sludge WW-Wasre Water GW-Ground Water SW-Surface Water Date/Time Received by: (Signature) Date/Time Rec
ESS Labora Division of Thielsch En 185 Frances Avenue, C. Tel. (401) 461-7181 F www.esslaboratory.com	Person < 10 10 10 10 10 10 10 10	Container Type: P-Poly G-Cooler Present Yes Seals Intact Yes Cooler Temp:

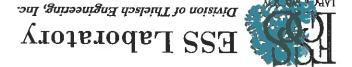
*By circling MA-MCP, client acknowledges samples were collected

1 (White) Lab Copy 2 (Yellow) Client Receipt 1026 No. 102

Please fax all changes to Chain of Cuscody in writing.



of Thielsch Engineering, Inc.



CEKLILICYLE OF ANALYSIS

Rob Schuster I7 Gordon Avenue, Suite 204 Providence, RI 02905-1952

RE: Lincoln Lace (1006) ESS Laboratory Work Order Number: 1012068

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Digitally signed by Laurel Stoddard Date: 2010.12.13 16:43:10 -05'00'



Laurel Stoddard Laboratory Director

J-0034 Semine X

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan.

This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated

Quality

integration because it produces more accurate results.



BAL Laboratory
The Microbiology Division
of Thielsch Engineering, Inc.



CEKLIŁICYLE OŁ YNYTKZIZ

Client Name: RC & D Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1012068

SAMPLE RECEIPT

The following samples were received on December 07, 2010 for the analyses specified on the enclosed Chain of Custody Record.

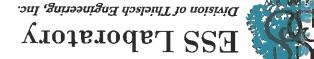
Client did not deliver samples in a cooler.

Analysis 6010B, 7471A, 7841, 8100M, 8260B, 8270C 6010B xitisM lio2 lio2 SampleName 1006-ReadTS-05 1006-Lopes-09 Lab Number 1012068-01 1012068-02



The Microbiology Division BAL Laboratory

of Thielsch Engineering, Inc.



CEKLIEICYLE OF ANALYSIS

Client Project ID: Lincoln Lace Client Name: RC & D

ESS Laboratory Work Order: 1012068

PROJECT NARRATIVE

Matrix Spike recovery is above upper control limit (M+). CF00808-W21 5035/8260B Volatile Organic Compounds / Methanol

1,1-Dichloroethene (151% @ 70-130%), Vinyl Chloride (131% @ 70-130%)

Relative percent difference for duplicate is outside of criteria (D+). CC00808-W2D1

Acetone (34%)

Relative percent difference for duplicate is outside of criteria (D+). CF00850-B2D1 8270C Semi-Volatile Organic Compounds

3+4-Methylphenol (33%), 4-Nitrophenol (51%), Benzoic Acid (46%)

Calibration required quadratic regression (O). CTL0089-CCV1

2.4-Dinitrophenol (87% @ 70-130%), Pentachlorophenol (108% @ 80-120%)

End of Project Marrative. No other observations noted.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semiyolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



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ESS Laboratory
Division of Thielsch Engineering, Inc.



CEKLIEICYLE OE YNYTK212

EZZ Laboratory Sample ID: 1012068-01

Sample Matrix: Soil Units: mg/kg dry

KI - KEZ DEC

Client Name: RC & D Client Project ID: Lincoln Lace

Client Sample ID: 1006-ReadTS-05
Date Sampled: 12/07/10 13:00
Percent Solids: 80

3050B/6000/7000 Total Metals

Sinc	(8.5) 4.65	E010B	0009	1	SVD	15/09/10 18:5	2,22	100	CF00816
mvilledT	(9£.1) dN	1841	5.8	ς	SAD	15/10/10 14:3	2.22	001	CF00816
Silvet	(LS.0) dN	E010B	700	I	ZAD	15/06/10 18:3	27.2	100	CF00816
Selenium	ND (2.6)	E0109	390	1	SAD	E:81 01/60/Z1	27.2	100	CF00819
Nickel	(8.2) 2.9	E010B	1000	ı	SAD	15/06/10 18:3	27.2	100	CF00819
Мег сигу	(0,040) (JV	V1.147	23	ī	qı	Z:11 01/01/ZI		01	CF00813
Lead	(9.2) 0.52	E0109	051	ī	ZAD	12/09/10 18:3	22.2	100	CF00816
Copper	(8.2) 6.9	6010B	0016	·	SVD	15/00/10 18:3	2.22	100	CF00816
Сьготит	(1.1) 4.8	E0109	1400						
	•	d0109	UUVI	ı	SVD	E-81 01/60/21	27.2	001	CF00816
muimbs 2	(72.0) dn	E010B	6 E	I	SVD	15/06/10 18:3	27.22	001	CL00816
Berylliam	(21.0) 28.0	E010B	p .0	1	SAD	15/09/10 18:3	27.2	100	CF00816
Arsenic	ND (2.8)	6010B	L	1	SAD	15/09/10 18:3	27.2	100	CF00816
Апсітопу	(5.6) MD (5.6)	E0109	01	T	ZAD	15/06/10 18:3	77.7		
Analyte	Results (MRL)				12YIET.	Analyzed	7.22 I/V	100 E/A	Batch CL00816
							7 M I	2 27 12	f. A. CT



Batch

Analyzed Sequence

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Results (MRL)

CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068-01

lio2 :xirteM alqme2

Sample Maints, Son Units: mg/kg dry Analyst: MD

 $\overline{\mathbf{D}\mathbf{E}}$

<u>limit</u>

KI - KES DEC

Client Name: RC & D
Client Project ID: Lincoln Lace
Client Sample ID: 1006-ReadTS-05
Date Sampled: 12/07/10 13:00

Percent Solids: 80 Initial Volume: 12.8 Final Volume: 15

Extraction Method: 5035

Analyte

5035/8260B Volatile Organic Compounds / Methanol

WDF

Benzene	(7280.0) GN	6£10.0	2.2	1	12/08/10 11:55	CTL0062	CF00808
Acetone	ND (2.14)	₽E9.0	008L	1	15/08/10 11:52	CTL0062	CF00808
4-Methyl-2-Pentanone	(728.0) QN	0.103	1200	I	12/08/10 11:55	C1L0062	CT00808
4-Laopropylioluene	(7280.0) 4960.0 L	0.0153		Į	12/08/10 11:55	CLF0005	CF00808
4-Chlorotoluene	(7280.0) AN	0.0111		Į.	15/08/10 11:55	C110062	CF00808
2-Нсхалоле	(728.0) GM	841.0		Ī	12/08/10 11:55	CLF0005	CF00808
2-Chlorotoluene	(7280.0) GN	2⊧20.0		Ţ	15/08/10 11:52	C1L0062	CF00808
2-Butanone	ND (2.14)	96Þ.0	00001	I	\$5:11 01/80/71	C1L0062	CF00808
2,2-Dichloropropane	(ITI.0) QN	6620.0		I	15/08/10 11:52	C1L0062	CF00808
1-Chlorohexane	(T280.0) CIV	E910.0		I	15/08/10 11:55	C11,0062	CF00808
nээтэ2 - эпяхоі О-Þ, I	(72.8) dn	2.86		1	SS:11 01/80/Z1	C1L0062	C[00808
1,4-Dichlorobenzene	(7280.0) CIM	8220.0	L7	1	15/08/10 11:22	CTL0062	CF00808
ansqorqoroldaid-E,1	(7280.0) GM	2610.0		1	12/08/10 11:55	C1L0062	CF00808
1,3-Dichlorobenzene	(7280.0) GM	8010.0	430	1	12/08/10 11:55	CTL0062	CF00808
1,3,5-Trimethylbenzene	(7280.0) CIM	1210.0		I	12/08/10 11:55	CTL0062	CF00808
эnsqorqoroldoid-2, [(7280.0) GN	0.0225	6°l	Ţ	15/08/10 11:55	CTL0062	CF00808
1,2-Dichloroethane	(7280.0) CIN	0.0230	6.0	I	15/08/10 11:22	CLL 0062	CF00808
J.SDichlorobenzene	(7280.0) QN	2210.0	015	I	12/08/10 11:55	C1L0062	CF00808
I,2-Dibromoethane	(7280.0) CIM	8120.0	10.0	I	12/08/10 11:55	CTL,0062	CF00808
элаqотqотоldЭ-5-оттотdіО-2,1	(p15.0) QN	171.0	2.0	ī	15/08/10 11:55	CTL0062	CF00808
3,2,4-Trimethylbenzene	(7280.0) QM	\$910.0		1	15/08/10 11:52	CLT0007	CF00808
ənəxnədoτoldəiπT-Þ,Δ,Ι	(T280.0) GM	6810.0	96	1	12/08/10 11:55	CTL0062	CF00808
1,2,3-Trichloropropane	(LS80.0) QN	0.0213		1	15/08/10 11:52	C.LT.0062	CF00808
1,2,3-Trichlorobenzene	(7280.0) CIN	9820.0		1	12/08/10 11:55	CTL0062	CF00808
1,1-Dichloropropene	(T280.0) CIN	2610.0		t	\$5:11 01/80/71	C/TL0062	CF00808
anathaoroldaid-1,1	(7280.0) CIM	1120.0	2.0	I	15/08/10 11:55	CIL 0062	CF00808
1,1-Dichloroethane	(T280.0) QM	7E10.0	076	I	15/08/10 11:52	CTL0062	CF00808
I,1,2-Trichloroethane	(7280.0) dN	0.0214	3.£	Ţ	15/08/10 11:55	C11,0062	CF00808
1,1,2,2-Tetrachloroethane	(7280.0) dN	0.0233	1.3	1	15/08/10 11:52	CTL0062	CF00808
1,1,1-Trichloroethane	(T280.0) CIV	1210.0	045	1	15/08/10 11:22	CIL.0062	CF00808
1,1,1,2-Tetrachloroethane	(171.0) dN	0.0149	7.2	1	15/08/10 11:52	CTL0062	CF00808



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of Thielsch Engineering, Inc.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CEKLIŁICYLE OŁ YNYTKZIZ

ESS Laboratory Work Order: 1012068

Sample Matrix: Soil ESS Laboratory Sample ID: 1012068-01

KI - KEZ DEC

Analyst: MD Units: mg/kg dry

> Client Sample ID: 1006-ReadTS-05 Client Project ID: Lincoln Lace Client Name: RC & D

Percent Solids: Date Sampled: 12/07/10 13:00

Extraction Method: 5035 Final Volume: 15

8.21 :smuloV Laitin1

5035/8260B Volatile Organic Compounds / Methanol

CF00808	CLF0005	12/08/10 11:55	1		0.0123	(T280.0) GN	Tertiary-amyl methyl ether
CF00808	C11,0062	12/08/10 11:55	l		0.0201	(L\$80.0) QN	tert-Butylbenzene
CF00808	C1L0062	55:11 01/80/71	ţ	13	0.0113	(LS80.0) QN	Styrene
CF00808	CLT0005	15/08/10 11:22	Ţ		\$110.0	(7280.0) CIV	ec-Butylbenzene
CF00808	C11.0062	15/08/10 11:22	1		6020.0	(7280.0) dn	n-Propylbenzene
CF00808	C1T0062	12/08/10 11:55	l		1120.0	(7280.0) QN	n-Butylbenzene
CF00808	CTL0062	15/08/10 11:55	I	7 5	2220.0	(7280.0) CIN	Марһthalene
CF00808	CTL0062	15/08/10 11:55	Ţ	42	0.0225	(0°459)	Methylene Chloride
CF00808	CTL0062	15/08/10 11:22	1	390	7E10.0	(7280.0) CIM	Meihyl tert-Butyl Ether
CF00808	CTL0062	15/08/10 11:22	ı	LZ	1510.0	(7280.0) CIN	Isopropylbenzene
CF00808	C.LL.0062	15/08/10 11:22	1	2.8	9820.0	(7280.0) CIN	Hexachlorobutadiene
CF00808	CTL0062	15/08/10 11:22	I	I L	1110.0	(T280.0) CIM	Еџуλјреихене
CF00808	CLF0007	15/08/10 11:22	1		9120.0	(7280.0) GM	Ethyl tentiary-butyl ether
CF00808	CTL0062	15/08/10 11:22	ı		1910.0	(7280.0) QN	Di-isopropyl ether
CF00808	CTL.0062	55:11 01/80/71	I		8120.0	(7280.0) CIN	Diethyl Ether
CF00808	C1170062	15/08/10 11:55	1		6610.0	(0.0857)	Dichlorodifluoromethane
CF00808	CLT0005	12/08/10 11:55	1		1720.0	(7280.0) dn	Dibromomethane
CF00808	CLT0007	12/08/10 11:55	I	9. <i>L</i>	0.0216	(7280.0) QN	Dibromochloromethane
CT00808	CLT0005	55:11 01/80/71	I		₱610°0	(0.0857)	eis-1,3-Dichloropropene
CF00808	CLT0005	15/08/10 11:22	I	029	E120.0	(7280.0) dn	eis-1,2-Dichloroethene
CF00808	CIL0062	12/08/10 11:55	1		8120.0	(171.0) dx	Сріотопенале
CF00808	CLT0007	17/08/10 11:22	ı	2.1	7710.0	(7280.0) dM	Chloroform
CF00808	C1L0062	\$5:11 01/80/71	1		1720.0	(171.0) dn	Сијогоегрвие
CF00808	CLT0005	12/08/10 11:22	I	017	2610.0	ND (0.0857)	Chlorobenzene
CF00808	CTL0062	15/08/10 11:55	1	2.1	0,0149	(L280.0) QN	Carbon Tetrachloride
CF00808	C1L0062	15/08/10 11:55	I		L210.0	(0.0857)	Carbon Disulfide
CF00808	CTL0062	15/08/10 11:52	I	8.0	£720.0	(171.0) CIN	Вгототейза
CL00808	CTL0062	15/08/10 11:55	1	18	7420.0	ND (0.0857)	птоїото
CF00808	CTL0062	55:11 01/80/71	ı	10	8110.0	(7280.0) dM	Bromodichloromethane
CI'00808	C1L0062	15/08/10 11:22	Ţ		87.20.0	(T280.0) CIN	Bromochloromethane
CF00808	CTL0062	12/08/10 11:55	<u>1</u>		\$820.0	(F280.0) dN	Вготторенхепе
Batch	edneuce	<u>bəzylenA</u>	DE	<u>Jimi,</u>	<u>WDF</u>	Results (MRL)	Analyte



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ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

Client Jample ID: 1006-ReadTS-05

Client Sample ID: 1006-ReadTS-05

ESS Laboratory Work Order: 1012068-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD Date Sampled: 12/07/10 13:00
Percent Solids: 80
Initial Volume: 15.8
Final Volume: 15

Extraction Method: 5035

5035/8260B Volatile Organic Compounds / Methanol

				0ET-0Z		96 OII		Surrogate: Toluene-d8
				0ET-0Z		% III		энецэшаюпуошаяр; гэрбаилс
				061-02		% <i>901</i>		энэхэдаюнуюшая- ; эзебашаς
				061-02		% 66		. Ур-элефэалонруд-2′1 :ээрбашs
				SILMIT	.eyijenč)	West Control of the C		
[cvrc]		15/08/10 11:55	1	011			(722.0) G M	(Total)
CF00808	C1L0062	12/08/10 11:55	1	110		0.0333	(171.0) dn	Xylene P,M
CF00808	CTL0062	12/08/10 11:55	1	011		0.0165	(T280.0) dN	Vylene O
CF00808	C1T0062	15/08/10 11:55	l	20.0		6820.0	(7280.0) GN	Vinyl Chloride
CF00808	CTL0062	SS:11 01/80/71	I			LL10.0	(0.429)	Vinyl Acetate
CF00808	CLT'0005	15/08/10 11:55	1			9220.0	(7280.0) CIM	элянэтогоплогайт
CF00808	C.L.L.0062	SS:11 01/80/71	I	٤١		LL10.0	(7280.0) QM	ТгісһІотоеФеле
CF00808	C11.0062	55:11 01/80/71	I			0.0264	(7280.0) dn	eneqorqoroldaid-£,1-enert
CF00808	CTL0062	55:11 01/80/71	I	1100		0.0281	(7280.0) GN	enarteorolhoid-2,1-anstr
CF00808	C11,0062	15/08/10 11:22	ī	160		0.0218	(7280.0) QN	Тојиспе
CF00808	CTL0062	15/08/10 11:55	1			0.221	(T28.0) QM	Tetrahydrofuran
CF00808	CTL0062	15/08/10 11:55	I	15		9820.0	(7280.0) CIN	Тетвей ютоей епе
Batch	Sequence	baxylenA	$\overline{\mathbf{D}\mathbf{E}}$	<u>Limit</u>		WDF	Results (MRL)	<u>stylenA</u>
			O					



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of Thielsch Engineering, Inc.

Division of Thielsch Engineering, Inc. ESS Laboratory



Nnedqe1-0 :alsganu2

Final Volume: 1

6.02 :smuloV lsitinl Percent Solids:

Client Name: RC & D

Date Sampled: 12/07/10 13:00

Client Sample ID: 1006-ReadTS-05 Client Project ID: Lincoln Lace

<u> 91ylen A</u>

Total Petroleum Hydrocarbons

CEKLIEICYLE OF ANALYSIS

E22 Laboratory Sample ID: 1012068-01 ESS Laboratory Work Order: 1012068

Sample Matrix: Soil

Analyst: SEP Units: mg/kg dry

Prepared: 12/8/10 18:00

Extraction Method: 3546

8100M Total Petroleum Hydrocarbons

% E6

(5.24) 471 CF00816 9900TLO 15/09/10 4:29 Sequence **PazylenA** Results (MRL) Batch $\overline{\mathbf{DE}}$ <u>limil</u> KI- KEZ DEC

0+1-0+

http://www.ESSLaboratory.com

Fax: 401-461-4486

Tel: 401-461-7181

Dependability

185 Frances Avenue, Cranston, RI 02910-2211



The Microbiology Division BAL Laboratory

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ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLIEICYLE OF ANALYSIS

E22 Laboratory Sample ID: 1012068-01 ESS Laboratory Work Order: 1012068

Sample Matrix: Soil

Prepared: 12/8/10 18:00 Mal :tzylsnA Units: mg/kg dry

KI - KES DEC

08 Percent Solids: Date Sampled: 12/07/10 13:00 Client Sample ID: 1006-ReadTS-05 Client Project ID: Lincoln Lace Client Name: RC & D

Extraction Method: 3546 6:0 :emil Volume: 0.5

2.21 :smuloV IsitinI

8270C Semi-Volatile Organic Compounds

Аселарһіһуlепе	ND (0.403)	23	Ī	15/11/10	11:5	C1T0089	CF00850
Acenaphthene	ND (0.403)	43	I	15/11/10	11:5	CTL0089	CT00850
4-Nitrophenol	(2.02)		Ī	15/11/10	11:5	CTL0089	CT00870
4-Nitroaniline	ND (0.403)		I	15/11/10	11:5	CJI 0086	CF00850
4-Chloro-phenyl-phenyl ether	(£0),0) dV		I	15/11/10	11:5	CTL0089	CF00850
4-Chloroaniline	(708.0) dn	310	I	15/11/10	HIS	CJIT0088	CF00870
4-Chloro-3-Methylphenol	ND (0.403)		1	15/11/10	11:5	CTL0089	CF00870
4-Bromophenyl-phenylether	ND (0.403)		I	15/11/10	11:5	C.T.L.0089	CF00870
4,6-Dinitro-2-Methylphenol	ND (2.02)		1	15/11/10	11:5	CTL0089	CF00870
anilineoviN-E	ND (0.403)		1	15/11/70	11:5	C.LL.0089	CF00870
3+4-Methylphenol	(£08.0) dn		1	15/11/10	11:5	C1L0089	CF00870
3,3'-Dichlorobenzidine	(708.0) dn	Þ. ſ	1	15/11/10	11:5	CTL0089	CF00850
2-Nitrophenol	ND (0.403)		1	15/11/10	11:5	C1L0089	CF00870
2-Witroaniline	ND (0.403)		1	15/11/10	11:5	CTL0089	CF00870
y-Methylphenol	(£0,403)		l	17/11/10	11:5	CTL0089	CF00870
2-Methylnaphthalene	ND (0.403)	123	1	15/11/10	11:5	CTL0089	CF00850
2-Сијоторћелој	ND (0.403)	05	I	15/11/10	11:5	CTL0089	CF00870
Z-Chloronaphthalene	ND (0.403)		t	17/11/10	11:5	CTL0089	CF00870
2,6-Dinitrotoluene	(£01.0) dN		Ī	15/11/10	11:5	CLT0089	CF00850
2,4-Dinitrotoluene	ND (0.403)	6.0	1	15/11/10	11:5	CTL0089	CF00850
lonadqortinid-4,2	(2.02)	091	Ī	15/11/10	11:5	C1F0088	CF00850
2,4-Dimethylphenol	ND (0.403)	1400	t	01/11/71	[1:5	CTL0089	CL00820
2,4-Dichlorophenol	ND (0.403)	30	ī	15/11/10	11:5	C.L.T.0089	CF00870
2,4,6-Trichlorophenol	ND (0.403)	85	1	15/11/10	11:5	CLIT0086	CF00850
2,4,5-Trichlorophenol	(£04.0) UN	330	1	15/11/10	11:2	CTL0089	CF00850
2,3,4,6-Tetrachlorophenol	(2.02)		l	15/11/10	11:5	CTL0089	CF00850
1,4-Dichlorobenzene	ND (0.403)	L7	1	17/11/10	11:5	C,LT0089	CF00850
anaznadonoldaid-£,1	ND (0.403)	430	l	15/11/10	11:5	CTL0089	CF00850
1.2-Dichlorobenzene	(£04.0) QN	015	Į	15/11/10	11:5	C.LT0089	CF00870
enasznadonoldairT-P,Σ,[ND (0.403)	96	ţ	15/11/10	11:5	CTL0089	CF00870
l,1-Biphenyl	(0.403) UN	8.0	<u> 1</u>	15/11/10		CTL0089	CT00850
Analyte	Results (MRL)	<u>l imil</u>	<u> 40</u>	SylenA	S Pa	edneuce	Batch

Tel: 401-461-7181

185 Frances Avenue, Cranston, RI 02910-2211

Fax: 401-461-4486

http://www.ESSLaboratory.com



Batch

Sequence

<u>bazylenA</u>

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of Thielsch Engineering, Inc.

ESS Laboratory



Division of Thielsch Engineering, Inc.

Results (MRL)

CEKLILICYLE OF ANALYSIS

Client Mame: RC & D

Client Sample ID: 1006-ReadTS-05

Client Sample ID: 1006-ReadTS-05

Sample Matrix: Soil Units: mg/kg dry

Analyst: IBM Analyst: IBM Prepared: 12/8/10 18:00

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m DE}$

Limit

KI-KEZ DEC

Client Project ID: Lincoln Lace Client Sample ID: 1006-ReadTS-05 Date Sampled: 12/07/10 13:00 Percent Solids: 80 Initial Volume: 15.5

Final Volume: 0.5 Extraction Method: 3546

Analyte

8270C Semi-Volatile Organic Compounds

. 2301	1100 01000 14	1012 157 107 1-02	,4FF 19F 10F	1002		
ənəryq(bə-£,2,1)onəbnl	ND (0.403)		l 6.0	11:5 01/11/21	CTL0089	CF00850
Hexachloroethane	ND (0.403)		1 94	11:5 01/11/71	CLLL0089	CF00850
Нехверіогосусіорепівдієпе	ND (5.02)		Ţ	11:5 01/11/21	CTL0089	CF00850
энэірилорланы э	(0.403)		1 2,8	11:5 01/11/71	CTL0089	CF00870
Hexachlorobenzene	ND (0.202)		I 4.0	11:5 01/11/71	CTL0089	CF00870
Fluorene	(E01-0) QN		1 82	11:5 01/11/71	CTL0089	CF00870
Fluoranthene	(0.403)		I 07	11:5 01/11/21	CTL 0089	CF00850
Di-n-octylphthalate	ND (0.403)		1	11:5 01/11/71	C1170086	CF00850
Di-n-butylphthalate	(0.403)		Į.	11:5 01/11/71	C1LC0089	CF00870
Dimethylphthalate	ND (0.403)		1 0001	11:5 01/11/71	CLLT0086	CF00850
Diethylphthalate	(£04.0) GN		340 1	11:5 01/11/71	CLT0086	CF00850
Dibenzofuran	ND (0.403)		1	11:5 01/11/21	C11T0086	CF00850
Dibenzo(a,h)Anthracene	ND (0.202)		l ≱.0	11:5 01/11/71	C1L0089	CF00870
Сугузспе	ND (0.202)		[▶^0	11:5 01/11/71	CTL0089	CF00870
Carbazole	ND (0.403)		I	11:5 01/11/71	CLF0088	CF00850
Butylbenzylphthalate	ND (0.403)		1	11:5 01/11/21	CTL0089	CF00870
bis(2-Ethylhexyl)phthalate	(0.403)		l 9Þ	15/11/10 2:11	CTL0089	CF00870
bis(2-chloroisopropyl)Ether	ND (0.403)		1 1.6	11711 2:11	CTL0089	CF00870
bis(2-Chloroethyl)ether	(0.403)		I 9.0	11:5 01/11/21	CTL0089	CF00850
bis(2-Chloroethoxy)methane	ND (0.403)		1	1175 01/11/71	CLIT0086	CF00870
Benzyl Alcohol	ND (0.403)		τ	11:5 01/11/71	CTL0089	CF00850
Benzoic Acid	(2.02) UN		I	11:5 01/11/71	CTL0089	CF00850
Вепхо(k) Пиотапіть В	ND (0.403)		1 6.0	11:5 01/11/21	C1T0089	CF00850
Benzo(g,h,i)perylene	ND (0.403)		1 8.0	11711/10 2:11	C.L.L.0089	CF00870
Benzo(b)fluoranthene	ND (0.403)		ī 6°0	11:5 01/11/71	C110089	CF00870
Benzo(a)pyrene	ND (0.202)		I 4.0	11:5 01/11/21	C.L.T.0089	CF00870
Вепхо(я)апінаселе	(0.403)		I 6.0	11:5 01/11/21	C1L.0089	CF00870
Azobenzene	(£04.0) (IV		Ī	11:5 01/11/71	C1L0089	CF00870
Anihmenene	(0.403)		1 SE	11:5 01/11/71	C1L0089	CF00870
эпіlinA	(708.0) dN		ι	11:5 01/11/21	CLT0086	CF00870
Acetophenone	(08.0) dN		ι	11711/10 2:11	C1L,0089	CF00870



$BAL\ Laboratory$ The Microbiology Division

of Thielsch Engineering, Inc.

ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068-01

Sample Matrix: Soil

Prepared: 12/8/10 18:00

Units: mg/kg dry Analyst: IBM

Client Name: RC & D
Client Project ID: Lincoln Lace
Client Sample ID: 1006-ReadTS-05
Date Sampled: 12/07/10 13:00

Percent Solids: 80 Initial Volume: 15.5 Final Volume: 0.5 Extraction Method: 3546

8270C Semi-Volatile Organic Compounds

				0ET-0E		% 98		FTP-Plunyting dispersions
				021-02		% E9		So-loraidi (alagorius
				OET-OE		% <i>19</i>		Sb-энэх варуу (эреболл)
				OET-OE		% <i>ÞS</i>		ринудала <u>ң</u> -г :
				0ET-0E		% <i>29</i>		ywydigarany. z zaetowns
				0ET-0E		% 6S		Ph-loreddarolf)- 2 - Salegarius
				OET-OE		% 96		Surrogate: 2,4,6-Tribromophenol
				0ET-0E		% ZS		Sumogate: 1,2-Dichlaroberzene-d4
				zìmU	Jayyijenč)	Лолагуу,		
CF00850	CLF0086	11:5 01/11/21	t				(20.2) QN	anibity¶
CF00870	C1LL0089	11:5 01/11/71	l	13			(£04.0) (IN	Pyrene
CF00870	CLF0086	11:5 01/11/21	Į	0009			(E01-0) QN	Phenol
CF00870	CLT0083	11:5 01/11/71	J	0Þ			ND (0.403)	Рћелалитепе
CF00870	CLT0086	11:5 01/11/21	I	٤,٤			ND (5.02)	Pentachlorophenol
CF00870	CLI'0088	11:5 01/11/21	I				(£04.0) CIN	A-nimalynahqibozotin-M
CF00870	CLT0086	15/11/10 2:11	ī				ND (0.403)	N-Nitroso-Di-n-Propylamine
CF00870	C.L.T.0089	11:5 01/11/71	I				(0.403)	N-Witrosodimethylamine
CF00870	CTL0089	15/11/10 2:11	I				ND (0.403)	Nitrobenzene
CF00870	CTL0089	11:5 01/11/71	I	42			(E04.0) QN	Naphthalene
CF00850	CTL0089	11:5 01/11/71	1				ND (0.403)	Isophorone
Batch	Sequence	<u>bəxylenA</u>	$\overline{\mathbf{D}\mathbf{E}}$	<u>Limit</u>		(ন	Results (MR)	Analyte
			23	I - KES DI	IA .			



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of Thielach Engineering, Inc.

Units: mg/kg dry Sample Matrix: Soil

> Division of Thielsch Engineering, Inc. ESS Laboratory



CEKLIŁICYLE OŁ YNYTKZIZ

Client Project ID: Lincoln Lace Client Name: RC & D

Date Sampled: 12/07/10 13:00 Client Sample ID: 1006-Lopes-09

Percent Solids:

3050B/6000/7000 Total Metals

100 CF00819 **BBtcp** 12/09/10 18:36 2:34 SAD Analyst Analyzed <u>Limit</u> $\overline{\Lambda/I}$ BI - BES DEC

E22 Laboratory Sample ID: 1012068-02

ESS Laboratory Work Order: 1012068

E010B Method

ND (5.2) Results (MRL)

Arsenic <u>Analyte</u>



The Microbiology Division BAL Laboratory

of Thielsch Engineering, Inc.

ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

Client Project ID: Lincoln Lace

Client Name: RC & D

ESS Laboratory Work Order: 1012068

Quality Control Data

					SI	ateM listo	L 000Z/0009	30208\6	_	
Qualifier	ЛmЦ	СРЯ	zimU	%KEC	Result	Tevel	zinU	MRL	Result	stylenA
	RPD		%REC		Source	Spike				

	_	OTOGETH ITTOG
RUDUE	-	Batch CL00816

УпотриУ

anala								
A1147 - 74800JD ribban								
Zinc	173	6.8	тыу/ка мес	0.802	₽8	80-150	£	20
muilledT	SHI	22.1	Jaw Dy/Du	146.0	66	90-150	7	50
Javis	84.8	64°T	тэм бу/бш	95.20	12	80-150	28	20
wnju e ps	6.BE	6.71	рым бу/бш	43,50	69	80-150	9	50
Nickel	ZÞT	6.8	зэм бу/бш	129.0	76	80-150	b	20
beal	PII	6.71	ру бурт	120.0	56	80-150	7	20
Соррег	941	6.B	тор/кр мет	167.0	⊳ 6	80-150	3	20
Сиготин	151	9℃	ээм бу/бш	168.0	06	80-150	٤	20
mulmbe 3	78.3	1.79	тэм бу/бш	92.00	76	80-150	1.0	20
peryllium	173	8£.0	⊅w gol\gm	138.0	68	BD-150	ε	20
pinaerA	611	6.8	aw gol/gm	137.0	78	80-150	7	50
ynomtinA	E.02	6.71	₩ çı/vm	00.86	12	80-150	8	50
FC2 pmb								
Zuiz	621	6.8	шаука мер	0'907	49	90-120		
muilledT	745	21.7	TOW DIVIDEN	146.0	Z6	80-150		
ZIME	SP.3	94.1	зэм бу/бш	02.22	77	80-150		
Selenium	8.9£	9.71	ж бу/бш шаука	43'20	SB	80-150		
Nickel	751	8.0	зэм бу/бш	0.921	96	80-150		
beal	112	9.71	тым бу/бш	120.0	£6	80-150		
ebbe	182	9.6	зэм бу/бш	0.781	Z 6	60-120		
Chromium	126	5.€	ээм бу/бш	0.891	£6	07-150		
Cadmlum	E.87	92'T	Jaw Quilgm	00'59	76	80-750		
muil y:∋ 8	721	7E.0	39M Öy ÖШ	138.0	76	80-150		
Arzenic	755	8.8	шд/ка ма	137.0	68	021-08		
YnombnA	8'81	9.71	æw gal∕gm	90'86	61	80-150		
ສາ								
Sinc	ND	5'7	тэм бу/бш					
mulledT	ИD	52.0	зам бу/бш					
Silver	ФИ	05:0	∓ м бэ∤бш					
Zeje ujnw	QN	0.2	ээм бу/бш					
Nickel	ДN	2.5	тым бу/бш					
pærj	ПD	0.2	39M fbj/fbur					
Copper	QN	5.5	saw gal/gm					
mulmontD	ON	1.0	39M Č1/DU					
mulmbeo	GN	05.0	зам бу/бш					
peryllinm	QN	01.0	TOW DY/DIT					
Araenic	QN	57	э≥м бу/бш					
Augustana	ON	a.r.	Take By Blue					

http://www.ESSLaboratory.com

Service Fax: 401-461-4486 Quality Tel: 401-461-7181

Dependability 185 Frances Avenue, Cranston, RI 02910-2211



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ansitison of the transfer of

Bromodichioromethane

Snothsmonolrhomona

Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Mame: RC & D Client Project ID: Lincoln Lace

Quality Control Data

					SI	St9M lstp7	L 000Z/000	30508/6		
Qualifier	RPD Umlt	GPA	#REC	%BEC	Source Huesari	revel Spike	zilnU	MRL	Result	atylenA

ansitie on or Litting	GN	0.050.0	I⊒AM Ď3/ĎUL						
3nsrbonoideaa7-5,1,1,1	- dN	0.100	;aw điy/điu						
Blank									
B무F다 CT00808 - 2032									
	2032\	8260B Volati	D Dinepro 9	M / spunodшo	√ethanoì				
увалій	16'9	ETT.0	там бу/бш	069'4	06	80-150	τ	20	
rce prob									
Метапу	£8.9	867.0	Jaw Gol/Qm	069.7	68	021-08			
ສາ									
Mercury	QN	£60.0	ш∂∖ка ме						
Batch CL00817 - 7471A									
		Jacob							

Benzene	QN	00200	THAN DA/DON
ands:A	QN	1,25	ээм бу/бш
anonatra4-2-lyddall	ΦN	005'0	∓w gp/lgm
Isopropyfibluene.	ПD	0050 0	mg/kg wet
9-Chlorataluene	αN	0050.0	JEW EN/EM
anonasah-2	QN	005'0	там бу/бш
anaulorohiD-S	QN	005010	рам бу/бш
Substrance.	QN	1"52	тэм бу/бш
ənsqorqorolrbiO-S,S	QN	0.100	19w ga/gm
I-Chlorohexane	GN	0.050.0	æw gol∖gm
naara2 - ansxold-P,1	QN	00'5	ж дэүүдт
sæxnedorol/bid-Þ,í	ND	005010	mg/kg wet
ansgarganolrbKl-E,1	ND	0050'0	æw gol\gm
5.3-Dichloroberzene	ПD	0.050.0	жи бу/бш
s-es-rediyrtis-mhT-2,E,£	QN	0050-0	TOW QUIVE
อกรัสตาดุตาดให้วัเนี-S _t I	ИD	0050'0	mg/kg wet
anerhanolrisid-S,I	ND	0.050.0	æw gol\gen
ansanadorolhbid-C,I	ON	0050'0	∌w gol\gm
Snarthsomortidi-C ₄ £	ND	0050'0	mg/kg wet
1,2-Dibromo-3-Chioropropene	ПD	00.300	JEW SY/SW
θ mxradytiamh T - θ , ζ , t	ИD	0050'0	там бу/бш
anasnadαnolrb:T-P, Σ, Σ	ПD	005010	;pw doj/du
ansgorganolabiT-E,S,L	ØИ	0050'0	Jaw gal/gm
anasnadonohbhT-E,S,1	QN	0.050.0	33M BY/BU
anagorgonolrbid-1,1	MD	0050'0	рым бы/бш
arentagonolra(G-I,I	GN	0050 0	там бу/бш
1,1-Dichlorochane	ПD	0050'0	æw gol∖gm
ansitaonolitanT-S,t,t	dΝ	0050'0	зам бу/бш

рм бу/бш

там бу/бш

Jaw Bil/gm

ээм бү/бш

0050'0

0050'0

0020.0

005010

GN

αN

αN



noisivia VgoloidonoiM əfi T BAL Laboratory

of Thielsch Engineering, Inc.

ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLIEICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Project ID: Lincoln Lace Client Name: RC & D

	_							** * * * * * * * * * * * * * * * * * * *			
Qualifier	JimLi	GPD	zilmLi	%KEC	Result	Level	ziinU	MRL	Result	_	STylsnA
	CPAR		%BEC		Source	Spike					

Subor Tetradiloride	QN .	0050'0	₩ co(\om							
Carbon Disuffide	QN	0.0500	mg/kg wet							
вгототейъ	ON	00110	ээм бу/бш							
Batach CL00808 - 5035										
	2/5805	tislov 80328	O cinegro el	ompound	srtheM \ st	lone				
stylisnA 	2032\8	мя <u>т</u> В2608 Volati	_{योग} Ö oinegıO əl	ompound Level	Result S / Meths	JOUE %KEC	zimU	G9A	Jimli.	Qualifier

INA soonsid 281	enue, Cranston, RI 02	1177-016	Tel: 401-461-718	-10⊁:xa¶ 18		http://www.ESS	
ensthemolrberteT-l	25.5	0050'0	TOWN COLUMN	2,500	tot	20-130	
ansrbamoirbh?	9E"Z	005010	э м бу/бш	2,500	⊬ 6	0ET-0Z	
ansritacnolribertaT-	5.33	0.100	THAN DO VOICE	2.500	£6	061-07	
8b-anaufoT ;sda	SZZ		ээм бу/бш	005°Z	06	0ET-0Z	
ate: Dibromofluoromethane	57.29		тэм бу/бш	005°Z	26	061-02	
ate: 4-Bromofluorobenzene	515		Jaw gol/gm	00S°Z	88	061-02	
Pb-ensithernotrhist-5,1 ister	21.2		₽ MET	005'7	58	OET-OL	
М'а	ПD	0.100	mg/kg wet				
0	dn	005010	1944 fb//dm				
abholri	QN	0050'0	тэм бу/бш				
50830	GN	0.250	тэм бу/бш				
ənərtison	ON	0.050	Wā/joā wag				
anaqorqorolifbiid-E ₄ .	QIN .	0.050.0	шаууа мер				
snarbaotolrbiO-S,	UN	0.0500	зам бу/бш				
•	GN	0.050.0	жүүдт Эмет				
nenionby	ON	0.500	ээм бу/бш				
anartheorol	QN	0.050.0	там бу/бш				
у-гату тейуу ейег	QN	0050'0	⊐w gal/gm				
tylbenzene	QN	0.050.0	ээм бу/бш				
•	ON	0.050.0	там бу/бш				
уірелхеле	QN	0050:0	тым бу/бш				
Abenzene	QN	0.050.0	там бу/бш				
araxrad	ПD	0.0500	∓⇒w @/Ωm				
ərələr	QN	005010	зам фу/бш				
abholiO ana	αN	052.0	JOHN DOL/DUI				
bert-Butyl Ether	QN .	00\$0:0	EW Q/kg wet				
Mpenzene	QM.	0.050.0	зэм бу/бш				
ansibatudoroli	QN	0050:0	TEM DY/DIU				
euezu:	QN	00200	ээм бу/бш				
адзіл-раўц ефе.	ON	0050'0	; <u>=</u> мед мед				
ю छो। सम्ब	QN	0.0500	⊋w gal/gm				
Ethe	QN	005010	THE BY/GUI				
anschancrouffbo	GN	0.050	±ew gal∖gm				
emethane	an	0050.0	⊞w gol\gm				
ansitiamorolitzo	αN	00\$0'0	Jaw Qi/Qm				
anagong draid	UN	0.050	зэм бу/вш				
Snetherochial	MD	0050.0	жи бу/бш				
anathan	MD	00170	pow foj/fou				
шо	MD	005010	Taw gol/gm				
ansda	dN	0.100	зэм бу/бш				
SHEETING	GN	0050'0	TEM BY/BU				
Spholrberts T	GN	0.0500	зам бу/бш				
Distrigge	GN	0.0500	Taw Qal/Qm				



The Microbiology Division of Thielsch Engineering, Inc. BAL Laboratory

SSS Laboratory

Division of Thielsch Engineering, Inc.

CEKLIŁICYLE OŁ YNYTKZIZ

ESS Laboratory Work Order: 1012068

Client Project ID: Lincoln Lace Client Name: RC & D

1,1,2-Trichlomethane

Sentch CL00808 - 5035

Quality Control Data

				Joan	cdtold \ 2	pariodalo	<u> </u>	[[44]4]1 [0500	71203	
Qualifier	JIШП	CP()	złimLi	%REC	Result	level.	zilnU	MRL	Result	etylenA
	QQA		%EEC		Source	Spike				

ээм боу/бш

005010

2032/8790B Adjatile Organic Compounds / Mechanol

2,500

			Dependab	ility + Qi	dity	e Zelaice	
	185 Frances Avenue, Crans	nue, Cranston, RI 02		17-13Þ-10Þ :laT 10		Fax: 401-461-4486	moo.vyotsnode.J223.www\\\;attf
Sethyl Ether		2,63	0050:0	тын бо <u>г/би</u> г	2,500	SOT	051-07
snsrbsmoroufilborolrbic		5''2	0050'0	зам бу/бш	2,500	901	70-130
enschemomordio		2,40	0050'0	ры бу/бш	7'200	96	70-130
enschemorolicomordio		ζ Þ ,ζ	0050'0	зам бу/бш	2.500	46	70-130
ənəqarqaralırlərid-E,1-ət		5'28	0.050.0	a>w ga/ga	2.500	EOT	70-130
anartiacnoirbid-5,1-2i		2.73	0050'0	⊒ew gpl/gm	005.S	700	DET-02
ənsittəmorold		P9.5	001.0	рам боу/бш	2,500	SOT	70-130
možonold		BC.2	0050'0	рым бу/бш	005°Z	S6	0E1-07
ənsthəmold		27.2	001.0	ры бу/бш	2,500	110	70-130
anaznadoroln		86,2	0.0500	рам бу/бш	7200	\$6	76-130
abholrbsdaT noch		2,43	0050'0	зам бу/бш	5,500	46	0€ T- 0 ∠
shifture of noda		7.86	0050:0	зам бэ/бш	Z'200	STT	0£1-0Z
omomethanomo		757	001.0	ээм бу/бш	2,500	103	0ET-04
motomo		£P.S	0050'0	там бу/бш	2,500	46	70-130
ansittamonolitatioomo		242	0050'0	тэм бу/бш	5200	46	70-130
ənsrhəmorolrizomo		09'7	0050'0	₽M Ďi/ďu	7200	104	OET-OZ
anastradomo		65.2	0050'0	зэм бэ/бш	2,500	96	0£1-0∠
SUSTRU		85.5	0050'0	ээм бу/бш	005.2	EOI	70-130
900)		£,2.1	57'1	там би/бш	12,50	86	0ET-0Z
anonistraf-S-lyrbal		6.14.9	005'0	зэм бэ/бш	12,50	611	70-130
sobropytologie		72.5	0050'0	зам бу/бш	2.500	16	0£1-07
Shoroboluene		2.35	0020.0	зэм бу/бш	7200	Þ6	70-130
anonasa		E.EI	005'0	⊒м бу/бш	0571	Z01	061-07
anaulatoold		2,42	0050'0	там бу/бш	2,500	46	061-07
anonstr.		5'EI	1.25	32M 51/5W	12.50	801	70-130
Sinthoropane.		9b.2	001.0	ээм бо/бш	005'7	86	061-07
hlorohexane		SÞ'Z	0050.0	зам ба/бш	7,500	86	
- Digwane - Screen		8.62	00.2	эм бу/бш	20.00	120	75-130
-Dichlorobenzene		20.3	0050'0	зам бу/бш	2,500		74-74J
Dichloropropane		248	0050.0	эм бубш	7.500	₩6 66	70-130
Dichlorobenzene		2.36	0050'0	зам бо/бш	005'7		70-130
5-Trimethylbenzene		9 ⊬ .2	0.050.0	эм бу/бш	2,500	⊳ 6 86	70-130
SnegorgorolfbiO		ÞZ'Z	0050.0	тэм бу/бш	2,500	110	70-130
Dichloroethane		2.38	0020.0	3⇒w gal/grπ	2,500		70-130
Dictionoberzene		2.38	0.0500	зам бу/бш	0057	56	70-130
Shortsomordio		EP.S		39W gallom		56	0£1-02
Olbamo-3-Chianopapası	24	82. <u>5</u>	00E'0	эж бубш	2,500	26	0ET-04
4-Trimethylbenzene	•				7,500	103	0£T-0Z
anaxiadorolrbhT-P		9 1 77	0050'0	там бу/бш там бу/бш	2,500	86	70-130
ansquiquiolitaitT-E		732 05:7	0.050.0	TOW GOVERN	2,500	1∕6	061-07
		2:40	0.050.0	my/kg wet	2,500	96	0E1-0Z
Snexporporation 3-Thrafton denotes a service of the		5'30	0.050.0	39W QV/QM	5.500	76	70-130
Signification pene		7.69	0020'0	⊋м бу/бш	2,500	108	70-130
Smarternolraid-		2.83	00200	39.M £9/6W	2.500	113	70-130
anartisonoirisid-		2.44	0.0500	±ew gal∖gm	2,500	86	OET-OZ



The Microbiology Division BAL Laboratory

of Thielsch Engineering, Inc.

Division of Thielsch Engineering, Inc. SS Laboratory

94"7



Di-Isopropyl ether SE05 - 80800TO 나파매요

CEKLIŁICYLE OŁ VNYTKZIZ

ESS Laboratory Work Order: 1012068

0E1-07

111

Client Project ID: Lincoln Lace Client Name: RC & D

Quality Control Data

5035/8260B Volatile Organic Compounds / Methanol												
	Qualifier	JimI	GGA	złmU	%BEC	Result	[eve]	ztinU	WBL	fluzaЯ	97\VisuA	
L		GGR		%REC		Source	Spike					

ша\ка мер

005010

2,500

TI AND									
	111057 4 1018	INVIDED ON	A A A COM	Service	क्षांत्र • स्था		ререпида Т. 2.2.1.1	/70 m 1000m 10 familia 1	/ CANIMI 1 CO /
	mos raote.	104s 1223	ммм//:фру	9866-196-106:>	.e. 18	Tel: 401-461-71	110001	Avenue, Cransion, RI 029	242men 7 28 f
	52	2.0	00T-07	108	5,500	эм бу/бш	0050:0	₽ ∠.∠	ansqorqorolfbiG-2,1
	52	Ţ	70-130	96	2.500	±w gx/gm	0.050.0	2,41	1,2-Dichlorethane
	SZ	7	0ET-04	86	2.500	aw gal/gm	0.0500	2.44	sæxædστοίτρίΩ-Σ,Ι
	72	0	70-130	46	2,500	39w gol/gm	0020'0	EP.S	Ansitteomσηdiα-Σ,Ι
	57	۷	70-130	111	2.500	ээм бэ/бш	006.0	Шζ	1.2-Chloropane
	52	τ	0ET-0Z	100	2,500	⊅w gol\gm	0.050.0	2,50	4.2,4-Trimethylberzene
	52	Ε	Z0-130	Z6	2,500	™ gal/gm	0.0500	EÞ.S	eneschedonoiridi⊤-P, ζ, I
	52	9	0ET-02	105	2.500	тым ду/усп там	0020:0	P\$1.2	ansqσrqστοίπρiπT-E,Σ,1
	52	ζ	70-130	⊬ 6	2,500	taw gal/gm	0.050.0	SE.S.	£,ζ,ζ, Trichlorobenzene
	52	Ţ	061-07	901	0057	±9w gxl\gm	0050'0	39'7	1,1-Dichloropmpene
	57	7	70-130	111	005"7	тэм су/уст	0.0500	Шζ	1,1-Dichloroethene
	52	7.0	70-130	26	2,500	INg/kg wet	0.0500	2).(2)	ansring on Inchident , i.
	72	Þ	0£1-07	⊮ 6	005"2	⊅w Qr\Qm	0.0500	SE'Z	anertisonolrbhT-Σ,I,I
	57	E	70-130	EOI	2,500	тым бу/бш	0050:0	85.5	SnarthernotheraT-S,S,I,L
	SZ	£.0	061-07	b 6	2,500	mg/kg wet	0.0500	35.2	ansitiaciolitainT-1,1,1
	57	Ţ	0€T-0Z	S6	2,500	эм бубш	0.100	3E.S	ansrbacrolrbsrtaT-2,1,1,1
									क्षेत्र इत्रा
			061-07	£6	005°Z	39M By/Sui		25.32	Sb-anauloT :alsgamu2
			081-02	<i>7</i> 6	00S'Z	тэм бу/бш		57.2	Surrogata: Dibramoñvoromethane
			20-130	06	005.Z	э м бу/бш		PZ:24	Sursandoromonione + Salegarus
			0ET-0Z	88	005'7	⊅w col/cm		02.2	Pb-ansitianolitaid-1,1,2-bisgamu2
			061-07	26	000'5	ээм бу/бш	001.0	4.83	M ₁ q amply
			70-130	96	2,500	⊅w gol\gm	0.0500	2,40	O aralyX
			70-130	113	7200	mg/kg wet	0050'0	96'Z	Vinyl Chioride
			70-130	ZTT	2,500	эм бу/бш	057'0	Z6 Z	stated kniV
			70-130	103	7 200	mg/kg wet	0.050	45 7	ərarbarıqıbıT
			70-130	S 6	2.500	TOW GOTOON	0.050.0	7.38	- anagorgorolrbid-E,1-znisti
			70-130	96	2,500	эм бу/бш	0050'0	5'36	SnectheorolithiG-2,1-snet
			061-07	101	2.500	ээм бу/бш	0.050.0	7.52	Toluen
			70-130	011	2,500	эм бу/бш	0.500	57.2	nenrìonbyt isus T
			061-07	06	2,500	TOWN DOWN THE STATE OF THE STAT	0050'0	2.25	Tetrachlorethere
			70-130	501	3°200	19M Boj/Bui	0.0500	19'7	Тегдалу-аллу перуу ейлег
			0ET-0Z	S6	2,500	TOWN GOLDON	0.0500	7:37	enaznadlytu8-trat
			70-130	26	5,500	19M DI/DUI	0050'0	7.47	Syrane
			70-130	66	2,500	⊋w galygm	0.0500	7.49	sec-Butylberzene
			70-130	100	5'200	⊋aw βol/βαι Σου βουβαι	0.0500	0572	и-Втору/Белагеле
			70-130	901	7200	TOWN COLUMN	0.0500	59'7	n-Butylbenzene
			70-130	16	2,500	39M EN/EU	0.050.0	2,28	ensierthiqeN
			70-130	211	7'200	⊋нк бу/бш ээн бу/бш	0.250	7.61	Methylene Chloride
			70-130	501	7,500	a⇒w ga/gm	0.0500	79'7	Methyl tæt-Butyl Ether
			70-130	58	7200	TOWN BY/BU	005010	2.07	Service of the servic
			0ET-02	96	7200	39M By/Bul	0050'0	2,40	Hexachlorobutadiene
			70-130	<u>76</u>	57200	Taw Gy/Gui	0.0500	2,42	Ediylberzene
			70-130	104	005"7	19M EDI/EUI	0050'0	5°7	Ednyl terdany-butyl ether



$BAL\ Laboratory \\ {}^{\textit{The Microbiology Division}} \\ {}^{\textit{of Thielsch Engineering, Inc.}}$

ESS Laboratory Work Order: 1012068

 $ESS \ Laboratory$ Division of Thielsch Engineering, Inc.

PÞ.2

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eneznedonolrbid-E, i

1,3,5-Trimethylbenzene

Batch CL00808 - 5035

CEKLILICYLE OF ANALYSIS

Client Mame: RC & D Client Project ID: Lincoln Lace

Quality Control Data

				log.	cdtoM / 2	panoawo	2 0,000,00	ישכטם אייוייהוי	37203	
Qualifler	JimU	CPR	złimL	 ₩EEC	HuzaA	PAPT	zilnU	MRL	Result	stylenA
	QAN		%REC		a⊃1uo2	Spike				

дам бу/бш

ъм ду/рт

2,500

0.0500

5035/8260B Volatile Organic Compounds / Methanol
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70-130

52

			Dependability	<u>ып</u> О +	soivise + yii				
	185 Frances Avenue, Cranston, I	ston, RJ 02910-221	PL [177	1817-131-101:	Fax: 401-461-4	985	www//:giid	ESSL aborat	mo2.Y10
tert-Butylbenzene	Z) -Z	2,42 0.1	0050:0	mg/kg wet	5'200	Z 6	061-07	7	57
Syrene	SP.S	2,42 0.0	0.020.0	paw By/Bus	7.500	Z 6	051-02	80.0	SZ
sec-gnt/\persens	15.2	5'27 0'	005010	ру бубш	7.500	T00	V0-130	6.0	52
n-Propylbenzene	PP. Z	Z.44 0.1	005010	зам бу/бш	5.500	86	70-130	Z	52
u-gnţλpeuxeue	89.2	7.68 0.0	0050'0	;∋w ഉ≀⁄ഉന	2,500	401	20-130	ĭ	57
ənəlarbriqaM	8E, <u>C</u>	2,38 0.0	0.050.0	зэм бу/бш	005.5	S6	DET-04	Þ	57
Methylene Orlonde	6Z.S	.0 67.2	0.250	Jaw Sy/Sw	5.500	115	OET-OZ	9.0	52
Methyl træt-Butyl Ether	2.63	3,63 0.0	0.050.0	тым бу/бш	5.500	SOT	0ET-02	9.0	52
Isopropylbenzene	2.09	2,09 0.0	0.020.0	там бу/бш	5'200	₽8	0ET-0Z	ī	57
Hexachlorobutadiene	7.51	3'21 0'0	0.050.0	эм бу/бш	5.500	100	0ET-02	S	57
Ethylbenzene	Σ,44	2,44 0.5	0.050.0	там бу/бш	5°200	Z 6	70-130	5'0	SZ
ethe kytud-yustnat kytiä	2,58	2,58 0.0	0050.0	тол/ка мек	5'200	EOT	0ET-04	6.0	52
DHzobropyl ether	2.75	0.0 2 7.2	0.050.0	Saw gol/gm	5'200	110	0ET-0Z	۲.0	57
Diethyl Ether	7.62	2,62 0.0	0.050.0	там бу/бш	7'200	SOT	0ET-04	₽ 0	57
Dichlorodiffuoromethan	2,71	3,71 0.0	005010	тэм бу/би	7°200	801	0ET-02	7.0	52
Shromomethane	5.42	2,42 0.0	0050'0	рым бу/бш	5'200	Z 6	0ET-0Z	7.0	57
Dibromochiomortiane	2.44	2,44 0.0	00200	⊋ м бу/бш	7.500	∠6	0£1-0Z	5.0	52
ds-1,3-Dichloropopene	7.62	2,62 0.0	0050'0	⊋эм бэ/бш	7,500	50 T	0£1-0Z	ζ	52
anartiaonolribiG-S,1-2b	2.70	D.O 07.S	0050'0	Jaw Gi/Jūrī	2,500	901	70-130	6'0	52
Chloromethane	ZS.Z	72. O.:	0.100	ээм бу/бш	5'200	103	051-07	£	57
motrooldD	75.2	2,37 0.0	0050.0	эж бубш	5.500	S6	0E1-0Z	80.0	57
Chloroethane	3°20	7'20 01	001.0	mg/kg wet	7'200	100	0ET-02	OT	52
Chlorobenzene	2,39	2,39 0.0	0.050.0	рым бү/бш	5,500	96	DET-02	2.0	SZ
Carbon Tetrachionide	721	5.51 0.0	0'0200	зам бу/бш	7,500	100	0ET-04	Ε	52
Carbon Disulfide	18.5	0.0	0050'0	тэм бу/бш	7.500	775	061-07	7	52
anarbamomona	69°Z	ro 69°Z	001'0	39W Q1/Qm	2,500	707	70-130	S	52
тоготога	ZP.S	2,47 0.0	0.050.0	зам бу/бш	5.500	66	70-130	Z	52
Branchichlormed	14.5	0.0 14.5	0.050.0	æw gal/gm	77200	46	0ET-0Z	0.2	52
эльтэтого/протогд	29.2	2.63 0.0	0.050.0	Mg/kg wet	7.500	102	0ET-02	τ	52
anaxinadomonā	ΣÞ,ζ	0.0 SP.S	0.050.0	æw ga(∖gm	2.500	4 6	0£1-0Z	ī	52
Benzene	57.28	5.59 0.0	0.050.0	рам бу/бш	005,5	104	70-130	2.0	SZ
∌ndtspA	2.11	TT Z'TT	1752	ээм бу/бш	15.50	₩6	0E1-0Z	S	52
9-Methyl-S-lyrbaM-P	5*FT	7 €'6 0'2	009'0	ээм бу/бш	12,50	611	0ET-04	1.0	52
4-Isopropylioluene	Z.31	2,31 0.0	0.050.0	⇒w gol/gm	5.500	76	061-07	7	57
4-Chlorotatuene	7.37	2,37 0.09	005010	∌w @i/gm	005'7	56	051-07	9.0	52
2-Hexanone	S.Et	13'2 O'S	0.500	aw gi/gm	15.50	108	061-07	7	57.
2-Chlorotoluene	5.59	7°26 0'07	0050'0	зэм бу/бш	005'7	EOT	0E1-07	۷	57
anonatu6-S	S.EI	13.2	1.25	paw gol/gm	15.50	106	70-130	7	52
ansqorqoroldaiQ-S,S	747	7'0 2'7	0.100	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	005'7	66	70-130	2.0	52
1-Chloroheane	ES.S	2.53 0.00	0050'0	Jaw By/Bu	005'7	101	70-130	ε	52
neero2 - Screen	9,19	97.6	2'00	mg/kg wet	00'09	123	162 -66	ε	200
1,4-Dichlorobenzene	738	2.36 0.05	00500	ээм бу/бш	005'2	56	0E1-04	6.0	52
ansqorqoroirbiG-E,1	84.2	20.0	0.050.0	зэм бу/бш	005*7	66	061-07	80.0	52
DESCRIPTION OF THE PARTY									



of Thielsch Engineering, Inc.

The Microbiology Division

ESS Laboratory Work Order: 1012068

Division of Thielsch Engineering, Inc. ESS Laboratory

99'7



Тегдагу-атуі тейтуі ейлег Batch CL00808 - 5035

CEKLILICYLE OF ANALYSIS

Client Project ID: Lincoln Lace Client Name: RC & D

Quality Control Data

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Qualifier	HmL	QQR	złimU	%BEC	Result	Level	ztinU	MRL	Result	atylenA
	GGA		%KEC		Source	Spike				

0.0500

/8260B Volatile Organic Compounds / Methanol	2032	



The Microbiology Division of Thielsch Engineering, Inc. BAL Laboratory

ESS Laboratory Work Order: 1012068

18.31

Division of Thielsch Engineering, Inc. SS Laboratory

0,65



25tch C100808 - 5035

CEKLIŁICYLE OŁ YNYTKZIZ

Client Project ID: Lincoln Lace Client Name: RC & D

Quality Control Data

##ylenA	Result	MET	ztinU	Level	Result	%BEC	złimLi	GPIA	ΉшЦ	Qualifier
				Spike	acruo2		%KEC		CPD	

5035/8260B Volatile Organic Compounds / Methanol

шд/кд діл

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14 281	ances Avenue, Cranston, RI		211 Tel: Sependability	181 <i>1</i> -194-104 : lauQ +		401-461-44 Service	98	<u> http://www.ESSLaboratory.com</u>	
əvazvəqaxnyoworg-; :ajebavns	SF'E	CF.2		Aip ճղ/ճա	<i>₹99'€</i>		16	0ET-0Z	
ур-эчецэонруд-с-1 :аребанаs	BE.E			Агр бу/бш	Z99 €		Z6	0ET-0Z	
M,9 analyX	97.7		9⊭1'0	Азр бу/бш	₽32. 7	MD	901	70-130	
O analyX	EY.E		SETO.0	Агр ба/бш	Z99 E	QN	705	0ET-04	
Vinyl Chloride	19'♭		\$£70.0	Аір бу/бш	Z99'E	QN.	TET	70-130	+W
states fymiv	EF*F		995.0	Агр <i>б</i> ү/бш	299'E	ďΝ	121	70-130	**
Snartheorold:hT	4.12	2E70.0 51.1	2E70.0	Аір бу/бш	Z99'E	ИD	113	75-130	
Snaqongonolrbid-E,1-2nst	B3.E	SET0.0 89.0	SETO.0	ú∂∖kð quà	Z99'E	dΝ	101	70-130	
SnertteonolrbiQ-S,1-2nerd	98'€	2670.0 88.0	ZE70.0	Агр бэг/бш	Z99'E	dΝ	501	70-130	
Toluene	₹6,£	ZE70.0 79,1	Z£70.0	Ар бу/вш	Z99'E	QΝ	108	70-130	
nsurìorbyristi) T	4,11	ZE7.0 11.,	2E7.0	Азр бу/бш	3,662	MD	775	76-130	
snartheroldnartsT	∠9 °€	ZE70.0 78.	ZE70.0	Αιρ έ λι/δω	Z99°E	ИD	001	<u>ዕ€</u> ፒ-ዐረ	
Terbary-amyl methyl ether	01.P	ZEY0.0 01.12	Z£70.0	Aup ಕನ್ನ/ಕೆಲು	Z99'E	QN	115	70-130	
bert-Buty/benzene	18.5	ZE70.0 18.	Z£70.0	Аір бұ/бш	₹99'€	ИD	⊁ 01	75-130	
Styrene	08.E	ZE70.0 08.	SETO.0	Аір бы/би і	3.662	ПD	104	061-07	
sec-Butylbenzene	₱ 0. ₽	SET0.0 PO.	SETO.0	Aip ճոլ/ճա	Z99'E	dN	110	70-130	
n-Propylbenzene	96.£	ZEZ0:0 96°	Z£70.0		299.E	QN	108	70-130	
a-Butylbenzene	82.6	2EY0.0 0.0732	\$2570.0	Аір бу/бш	Z99'E	ИD	211	70-130	
analerthiqui	58,€	ZE70.0 28,	SE70.0	Alp for/fou	3.662	αN	501	70-130	
Methylene Chloride	₹£. ₽	33Ε.0 \\ \(\(\text{7Ε} \)	996.0	Alp 64/6 w	Z99'£	QN	611	0 £T - 0∠	
Methyl text-Butyl Ether	20.P	ΣΕ Τ 0.0 20 ,	\$570.0	Aip ಕ್ರೋಡಿய	Z99'E	dΝ	110	NO-130	
Isopropylbenzene	IE.E	SETO.O LE.	ZE70.0	Аір бу/бш	3.662	ND	06	J0-130	
Hexachiprobutzallene	58°E	SETO.0 28.	\$E\\0.0	ώς γιλ μα γιλ	3,662	ИD	102	70-130	
Ethylberzene	96'E	ZE70.0 86.	ZE70.0	үть дл/ут	3.662	QN	801	0ET-0Z	
Edtry tertilary-butyl ether	20.₽	\$£70.0 \$0.	\$£\0.0	Aip စီး/jbu	299.E	ND	011	20-130	
DHsppropyl ether	22.4				Z99'E	ND	118	70-130	
Diethyl Ether	¥0.₽				3,662	MD	110	0ET-0Z	
Dichlorodifluoromethane	£5°F				Z99'E	ΦN	₽ Z1	20-130	
ansrbamomerdid	69.€				299.E	ND	101	70-130	
Dibromochloromethane	PT.E				299'£	ΠD	707	30-130	
ds-1,3-Dichloropropene	00.₽				299.€		601	70-130	
anartherrolrbid-C ₄ L-2b	75.4				Z99.E		711	70-130	
Shertamoroid	01.10				Z99'€		112	70-130	
тотого Стром	EY.E				Z99'E		707	DET-04	
Chlorethane	70.£				Z99'E		901	0€1-0∠	
Chlorobenzene	67.E				₹99.6		104	70-130	
Scholresta Troche)	3.61				799'8		104	70-130	
Bromomethane Carbon Distrifide	19'5				Z99'E		126	0£τ-0∠	
monomethane anomethane	98°E				799'6		SOT	20-730	
Bromodichloromethane	62'E				799'8		104	20-130	
Snardsmoothomost anathamondahomost	70.A P7.E				799'8		105	0C1-0Z	
Bronschommehane	ZO A				299'6		111	0ET-02	
Senzenda anamada anama	27.9				799'8		103	70-130	
	CIP	SEYO.O SI	£20°	Lib ga/gm	7991	I QN	ELI	0ET-04	



of Thielsch Engineering, Inc.

ESS Laboratory

Setch CL00808 - 5035

Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Name: RC & D Client Project ID: Lincoln Lace

Quality Control Data

ParedteM \ abaucomo2 alaenyO aliteloV 80a58\2502											
	Qualifler	HmL	CFIA	złimiU	%KEC	Result	leve.l	ztinU	MRL	Result	atylenA
		RPD		%EC		Source	Spike				

5035/8260B Volatile Organic Compounds / Methanol

			ć								16 000
			Dependability	ய ் +		Service			A SEC OF A COMPANY OF A COMPANY	erron Cu	
	185 Frances Avenue, Cranston,	nston, RI 02910-	2211 Te	81 <i>L</i> -19 1 -104:	хөЧ	: 401-461-44	98	T.WWW\\;qhd	usnode, 1225	шоз ли	
	tor.	co:c	70.40%	Lan Bullian	70010	ДN	101	007-07	τ	ar.	
molookD		3.69	2670.0	Аір бэ/бш Аір бэ/бш	299.E	QN	170	0£1-04	13	30 30	
andribonolnD				лар алуош Агр Бу/бш		QN			5		
Chlorobenzene		89.E	2670.0 2670.0	ло (уси Агр бу/бш	200.E		100 100	70-130 70-130	ž	30	
Carbon Tetrachloride		88.E			299.5	GN GN			د 2		
Carbon Disulfide		O₽.►	SE70.0	Aup 6x/6uu	Z99.E	QN	720	70-130		30	
Bromomethane		EI.P	9+T'0	Aup day/dui	Z99'E	αN	113	70-130	۷.	30	
тојопов		E3.E	SET0.0	λιρ δη/δω -	Z99.E	dN	66	061-07	Z.0 4	30	
ansitiamorolitalbomora		ET.E	SE70.0 SE70.0		Z99.E	QN CN	705 708	0ET-02 0ET-02	2	30	
Significancinans		10.4				dN an			τ		
Bromobenzene		67.E	SE\0.0	Aup day/day	£39.E	QN .	104	061-07		30	
Benzene		3,96	2570.0	Áip és/éiu	299'€	dN an	601	V0-130	E	30	+0
Snotton		E'91	EB.1	Ap 8y/8w	16.31	ND	68	061-07	34	30	+0
anongra9-2-lytilaM-2		7.15	SET.0	Aip By/Bui	16.81	QN .	116	0£T-0Z	8	30	
=isopropyttaluene		17.5	5570.0	Aip By/Bui	Z99'E	₱6£0.0	100	70-130	9.0	30	
4-Chlomppluene		89.6	ZE70.0	Aip By/Bui	Z99'E	ДN	100	70-130	3	30	
2-Hexanone		19.3	257.0	λιρ δις/δω (δις/δω	16,31	dΝ	102	70-130	12	30	
2-Chlorotoluene		80.P	2EY0.0	Азр Бу/бш /-га бъ/бъ	Z99'E	dΝ	115	061-07	S	30	
S-Butanone		19.0	1,83	Аір бу/бш	16.91	QN	104	70-130	91	30	
ansquiquiolibiG-2,5		26.E	9⊁1'0	Aup doj/dui	Z99'E	QΝ	Z0T	70-130	7	30	
1-Chlombeane		96°E	0.0732	Aip 65/6w	Z99'E	dΝ	108	061-07	7	30	
1,4-Dloxane - Screen		₽,28	ZE.7.	Aip foj/filii	₽2,£7	dΝ	711	162-94	17	500	
1,4-Dichlorobensene		3,62	0.0732	Arp 6s/6w	Z99'E	dΝ	66	70-130	₽0.0	30	
snsqorqorolfbiG-E,1		17.5	SET0.0	Агр бу/бш	Z99'E	dN	101	0ET-02	ь	30	
5-Dichlorobenzene		3.79	ZE70.0	Arp By/Bu	Z99'E	ND	₽0T	0€T-0Z	₩0	30	
1,3,5-Trimethylberzene		S6'E	ZEZ010	мд/ка діл	Z99'E	QN	20T	70-130	1.0	30	
ansquiquiolitaid-S,1		4.15	2E70.0	Aip By/6w	Z99'E	dΝ	ETT	70-130	7	O€	
ansitiscriolitaid-S,I		99'E	SE70.0	Aup dai/du	₹99.5	ПD	100	0€1-0∠	Ţ	30	
S. Piciniorobenzene		27.E	2£70.0	Aup 5x/6cu	3,662	αN	705	70-130	7.0	30	
anarbaomordid-S,t		₽9,€	SE70.0		3.662	ДN	66	70-130	>	30	
EqonqonalrD-E-omordiG-S,L		TT.E	9E₱.0	Aup By/Bur	₹99.€	ПD	103	70-130	S	30	
• Trimethylbensene		06.E	SET0.0	Aip 6y/6w	Z99.E	dN	901	0E1-07	€.0	30	
anaznadonolrichT-₽,Σ,Σ		08.€	S£70.0	Aip day/dui	299.E	dN	104	70-130	۷	30	
ansqongmolrbinT-E,S,1		Σζ. ξ	\$£70.0	Áip Ösj/Öw	Z99.E	dΝ	707	70-130	L	30	
anaxnadonolrbhT-E,S,1		9€.€	SE70.0	Ар бу/бш	Z99,E	ПD	€6	061-07	E	30	
1,1-Dichloropropene		05.₽	\$570.0	Aip ds/dui	Z99'E	ND	511	70-130	Z	30	
srentsonolrbiO-1,1		0£.Þ	SET0.0	Аір бу/бш	299.5	ИD	211	70-130	52	30	
1,1-Dichloroethane		B√.£	SETO.0	Aip 55/5w	Z99'E	QN	103	70-130	7	Œ	
ansiti∋onolitahT-S,£,£		84,6	2£70.0	Alp By/Bur	3,662	ДN	56	0E1-07	7	30	
enschemolrbeueT-Σ,Σ,1,1		19.5	Σ € 7 0.0	Аір бу/бш	Z99'€	ИD	70∉	0ET-0Z	Ε	30	
ansitamolibiT-1,1,1		17.E	0.0732		3.662	ПD	101	70-130	7	30	
1,1,1,2-Tetrachloroethane		65'€	97.146	Aւթ (եչլ/6 ա	₹99.€	dN	86	061-07	7	30	
Mathix Spike Dup	Source: 1012068-01										
Surrogate: Tolvene-dB		ZL'E		Հւթ ճչլ/ճա	Z99°E		101	0ET-0Z			
попои выподать:	ZS'E anerba	ZS'E		ան\թն գւհ	Z99°£		96	061-02			



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ESS Laboratory
Division of Thielsch Engineering, Inc.



CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Mame: RC & D Client Project ID: Lincoln Lace

Quality Control Data

				Joan	EdtoM / 2	parioaao	2 2/00000	190101 00300	73003	
Qualifier	ЭШП	CPAR	złimU	WREC	Result	PAZT	zilnU	MRL	Result	stylenA
	CPS		%EC		Source	Spike				

2032/8260B Volatile Organic Compounds / Methanol

(00)	UN	6.0	tew milen						
(CI2) Snazabod	αN	2,0	wā∖kg wet						
Domesine (CZ2)	an	2.0	DØ/kg wet						
Decore (C10)	QN	2.0	зам бу/бш						
àn al G									
995E - 6T800T) 474FB								_	
		8100M Td	тиэютэч ів:	Нудгоса	ьсопя				
Surrogate: Toluene-d8	19°£		Aip faj/fici	Z99′€		66	061-07		
Surrogate: Dibromofluoromethane	9⊁'€		λιρ δο/δω	₹99'€		P6	0ET-0Z		
Surgente: 4-Bromofluoroberzane	₽ ₽ .€		հւր ճշ/մա	Z99′€		<i>1</i> -6	051-02		
Sumpaie: 1,2-Dichloroethane-d4	SE'E		Агр бу/бш	Z99 E		16	0ET-0Z		
M,9 anahyX	Z9 °Z	9+1.0	Агр бу/бш	≯ 2£.7	dΝ	SOT	70-130	τ	30
O ∌rælyX	ZY.E	2E70.0	Агр бу/бш	Z99'E	ON	101	061-07	> 0	30
Vinyl Chioride	09.№	SET0.0	Աթ ճչլ/ճա	Z99'E	αN	126	DET-04	•	30
Amyl Acatate	ZÞ"Þ	995.0	Аір бу/бш	Z99'E	ПD	121	70-130	2.0	30
Snartborolrbit	607₩	SE70.0	Ар бу/бш	₹99.€	QΝ	रार	051-07	8.0	30
Sneptorquoinbid-E,1-eneti	85°E	SETO.0	Ար մշ/մա	Z99.E	QN	86	70-130	٤	30
anartiacrolrbid-2,1-2nerd	EX.E	SET0.0	Αιρ δη/δω	3,662	QN	705	061-07	ε	30
Toluene	3,92	ZE70.0	Ар бу/бш	3.662	ДN	201	70-130	1	96
neruhorbyrieri=T	18°E	ZEZ.0	Аэр бу/бш	₹99°€	αN	¥0T	051-07	8	30
Tetrachloroethene	8S.E	SE70.0	Ար ճվ/ճա	Z99'E	QN	86	0ET-04	٤	90
Terdsiy-amyl methyl ether	⊬6. €	2670.0	Аір бу/бш	3,662	ΔN	108	70-130	b	30
tert-Butylbenzene	19°E	SE70.0	Aip ճո/ճա	3.62	dN	104	061-07	0	30
availyts	BZ.E	SE70.0	λւթ 6η/6 ω	Z99.E	GN.	103	70-130	2.0	05
sec-Butylberzene	80.P	ZE\0.0	Aip <i>ճ</i> ոլ/ճա	299'E	QN .	III	70-130	6'0	30
и-ылобАреихеле	5.62	2E70.0	Аір бу/бш	299.£	QN.	1-OT	70-130	b	30
u-gnţ\perxene	TH'H	SETO.0	Aup foy/four	∑39.£	dn.	120	051-07	E	OΕ
Sphithalene and a sphithalene	10,4	2570.0	Ար ճվ/ճա	Z99'E	QN	011	0ET-04	>	30
Methylene Chloride	75.p	99E.0	Հոր բոլ/ճա	3,662	QN.	ZTT	70-130	7	0E
Methyl text-Butyl Ether	₹8.£	5670.0	Агр ба/бш	Z99.E	QN	901	70-130	b	30
[aobiob\penxene	3.32	ZE70,0	 	299.E	GN	16	70-130	2.0	0€
ansibatudorolihaeaeH	ST'b	\$670.0	, — м. Дир <i>б</i> эг/бш	Z99'E	QN	EII	0ET-04	8	0£
Ethylpenzene	59.€	2670.0	Aip fby/fbui	Z99.E	QN	102	0ET-0Z	E	30
Едій рецувій-рақи едіе.	88.5	SETO.0	Аір бу/бш	Z99'E	QN.	901	0ET-02	E	30
DHzobiobili equel	£5.4	SET0.0	Aip եղ/ճա	3.62	QN	911	DET-OZ	Ž	
Olethyl Ether	Z0.Þ	ZE70.0	Аір бу/бш	299.5	QN	011	0ET-02		30
Dichlorodifluoromethine	5£.P	SETO.0		299.E	QN	611	0E1-02	9.0	30
Dibrinomethane	65.£	ZE70.0	Аιр 5η/бш	S88.E	GN.			Þ	30
Dibromochloromethane	69°E	2£70.0	Ар бу/бш	£39.€	QN.	96 TOT	0£1-04 0£1-04	ī. E	30
anagong molitaid - E, t-ab	26.E	2670.0 6650.0	Ар бу/бш	299.E	QN.				30
anathaciótrid-2,1-2b	81.14	SEY0.0	Ар бу/бш	299.E	GN	707 714	70-130	7	30
				ピンプ ド	Old.	PII	0ET-04	Z	30

		Беревда	bility + Quality	esivies •	
	185 Frances Avenue, Cranston, RI	02910-2211	Tel: 401-461-7181	78x: 401-461-4486	http://www.ESSL.aboratory.com
Hexadecane (C16)	dn	2.0	æw @/\pm		
(3∑) anseossaH	αN	2.0	`````````````````````````````````````		
ලකනා (අත	an	2.0	т∋м бу/бш		
(SID) ensebod	an	۵,2	mg/kg wet		
Docosine (CZ2)	an	2.0	39AA D3/DUI		



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Division of Thielsch Engineering, Inc.

CEKLIŁICYLE OŁ YNYTKZIZ

ESS Laboratory Work Order: 1012068

Client Mame: RC & D Client Project ID: Lincoln Lace

Quality Control Data

MD	2.0	тым бу/бш							
αN	Z.0	aw go/lgm							
MD	2.0	mg/kg wet							
N	0.2	шд∖кд ме							
	8100M Td	пиэютэч із	Hydrocai	chons					
Result	MRL	ztlnU	Level	Result	SER	złimLl	Q98	ታነጦርነ	Qualifler
			2blke			%KEC		GPR	
	GN GN	2.0 dw 5.0 dw 5.0 dw dw 5.0	## 61/6m \$100 Total Petroleum 10	8100M Total Petroleum Hydroca ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet	8100M Total Petroleum Hydrocarbons ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet	8100M Total Petroleum Hydrocarbons ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet	8100M Total Petroleum Hydrocarbons ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet	8100M Total Petroleum Hydrocarbons ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet	8100M Total Petroleum Hydrocarbons ND 0.2 mg/kg wet ND 0.2 mg/kg wet ND 0.2 mg/kg wet

	ı	im s 2 D0758	-Volatile Orgi	inuoqmoD sine	sp			
Surogate: O-Terphenyl	12%		тэм бу/бш	000'5	16	0+1-0+		
(OD) anatmoshT	▶ 7	0.2	эм бу/бш	7,500	96	40-140	B.0	09
Total Petroleum Hydrocarbons	S.OE	2.7.E	∓AM Ď3//ĎW	32:00	98	0+T-0+	8.0	20
Tetradeciane (C14)	2,3	Z.0	ээм бу/бш	2.500	16	40-140	Þ	05
(+△) ancecosta∃ī	₽.2	2.0	∓ М бу/бш	5,500	1 6	0+I-0+	5.0	20
Octadecane (C18)	E.S	Z.0	ээм бу/бш	7'200	Z6	40-140	≯ .0	20
(BZI) ansecosto	P. .C	2.0	рым бы/бш	3°200	₩6	40-140	7.0	05
Nonane (C9)	1.6	2.0	∓ м бу/бш	5'200	S9	30-140	τ	20
Nonadecane (C19)	۵.۵	5.0	ж рі/ <u>р</u> т	2,500	96	40-140	5.0	05
Hexadecane (C16)	2.3	2.0	жм бу/бш	7'200	£6	40-140	τ	20
Heracosane (C.5.)	2.3	0.2	ээм бу/бш	27200	Ε6	0+T-0+	9.0	05
(020) anesosia	2.3	2.0	там бу/бш	2,500	E6	40-140	8.0	0\$
Dodecane (C12)	E.S.	Z.0	æw go/\gm	7200	06	40-1 40	Þ	05
Domesne (CZZ)	2.2	2.0	ээм бу/бш	2,500	69	40-140	2.0	09
Desane (C10)	0.5	2.0	æw go/lgm	2,500	TB	40-140	5	05
FC2 pnb								
Surragate: O-Terphenyl	897►		эм бу/бш	000'5	16	0+1-0+		
(0€) anstracethT	P.S.	2,0	ээм бу/бш	2,500	46	40-140		
Total Petroleum Hydrocarbons	0.08	2.75	mg/kg wet	32.00	98	0b1-0b		
Tetradecane (CL4)	2.2	2.0	ээм бы/бш	2,500	48	40-140		
(FSD) ansecostal	Þ.C	5.0	ээм буубш	7'200	56	40-140		
Octadecione (C18)	E.S.	2 0	ээм бу/бш	2,500	Z6	40-140		
(8도) anseosabO	Þζ	2.0	THAN GOL/GIU	7,500	56	0b1-0b		
Nonzine (C9)	1.6	2.0	mg/kg wet	7200	₽9	30-740		
Nonadecane (C19)	۶.۲	Z.0	тэм бу/бш	2,500	96	40-140		
Hecadecare (C16)	23	0.2	рэм бу/бш	7'200	Z6	40-140		
(3Z) anecoesH	₽"₹	2.0	w∂∖kg wet	2,500	16	40-140		
(UCD) ansecode	2.3	2.0	тым бу/бш	2,500	16	40-146		
Dodecane (CL2)	2.2	2.0	шдука мер	0057	78	40-140		
Domesme (CL2)	7.2	2.0	TOW COLUCTION	2,500	06	0+T-0+		
Decone (C10)	1.9	0.2	mg/kg wet	2,500	LL	0+1-0+		
รวา								
Surogate: O-Terphenyl	90'5		æw gol∖gm	000:5	101	0+1-0+		
(0℃) snatnæsinT	QN .	2,0	тэм бу/бш					
Zatal Petroleum Hydrocarbons	dn	2.7£	ша/ка ме£					
Tetradecane (CI4)	QN	2.0	ж бу/бш					
(P∑) anszazátaT	an	2.0	тэм бу/бш					
Octadecane (C18)	ND	2.0	тым бу/бш					
(8 ^모) ənsostbO	ПN	2.0	то√ка мес					
Nonzine (C9)	MD	5.0	тым бу/бш					

8270C Semi-Volatile Organic Compounds

http://www.ESSLaboratory.com

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Dependability

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Division of Thielsch Engineering, Inc.

CEKLILICVLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Project ID: Lincoln Lace Client Name: RC & D

I,1-Biphenyl

8##CH CH00820 - 3546

Quality Control Data

					Spurioc	عماد رصسا	Matrile Ord	/-Ime2 \\\		
Qualifier	JIШП	СРГ	zimil	%KEC	Result	Level	레이	MRL	Result	eylenA
	QGB		≫REC		Source	Spike				

Spunoduos siuggio aidelov-imas 20/28

6EE.0

			VillidabnaqaC	yrilan Q +	•
	185 Frances Avenue, Cranst	'KI 05910-5	:DT Tel:	1817-184-104	ㅋ
bls(2-Chloroethyl)ether		a	EEE:0	<u>;⊒w 5</u> 5/5W	
bis(2-Chloroethawy)methane	;	a	EEE.0	зам бу/бш	
Benzyl Alcohol		a	£££.0	UIŌ/KŌ MŒ	
Benzoic Acid		q	۲9۲	ээм бу/бш	
Benzo(k)fluoranthene		a	656.0	TOWN BOILD	
Benzo(g,h,i)perylene		d	6,333	⊋w. fbj/bu	
Senzo(b) fluoranthene		O	566.0	upā∖kā wet	
Benzo(a)pyrene		q	∠91 °0	TOW DY/GU	
Benzo(a)anthracene		c	EEE.0	⊋ м бој/бш	
ənaxnədoxA		C	EEE 0	там бу/бш	
anacerthnA		c	EEE.0	aw ga/gm	
a ollin A		c	499'0	⊋w đy/đu	
Acetophenone		(29 9'0	зэж ба/бш	
Acenaphtyrene		(EEE.0	эм бу/бш	
Acenaphthene		0	EEE.0	ZEM EDI/EM	
lonariquativ-+		(1.67	ാക തൃത്യ	
anllinsouiN-₽		(EEE.0	рам бу/бш	
4-Chloro-phenyl-phenyl ether	1	(6.333	тэм бу/бш	
Chlorosoline			499 °0	paw day/bu	
lonariqiyrttaM-E-moirD-A			EEE.0	IJō∕J¢ō м∉r	
4-Bromophenyl-phenylether		(EEE:0	эм бу/бш	
iorariqiyritaM-S-ordiniCl-8,1		(Z9'T	æw gol/gm	
aniBnacroiN-E			£££.0	ша/ка мег	
3+4-Metrylphenol		(Z99 °0	эм бубш	
3,5.3 '-Dichlorobenzidine		(Z99'0	∓ым ба/б ш	
JonahqortiN-S		(£££.0	Jaw Gri/Din	
### 3 - Nitro≥nillne			EEE.0	aw çı/gm	
2-Methylphenol			EEE.0	там бу/би	
S-Methylnaphthalene		1	EEE.O	paw doj/du	
lonarigoroli/D-2		(EEE.0	THA DY/GU	
S-Chlororaphthalene			t EEE.0	∓aw gp(/gm	
2,6-Dinitrotoluene			EEE.O	зам ба/бш	
Snaukatorikini-A,S			1 EEE.0	ээм бу/би	
lonariqo±(n)C-1-,S			1.67	тэм бу/би	
lonariqiyidamid-P,S		1	\$ 555.0	Day ga/gar	
iomarkponolribici-P ₁ S		I	T EEE.O	рам бу/би	
lonariqonoinbinT-3,4,5)	T 25E.0	дам бу/би	
lonariqonolrahT-2, A,S)	n EEE.0	тым бу/би	
lonarigosolrbettaT-a,P,E,S			J.67	Jaw 65/60	
5-Pichlorobenzene)	n 868.0	;∋w tist/fou	
1,3-Dichlorobenzene)	n EEE.C	рам бу/би	
1,2-Dichlorobenzene)	n 666.0	рым бу/би	
1,2,4-Trichiombenzene)	m EEE.C	THAN EN/OU	
ulumaden, vir		_			



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Division of Thielsch Engineering, Inc.

CEKLILICYLE OF ANALYSIS

ESS Laboratory Work Order: 1012068

Client Project ID: Lincoln Lace Client Name: RC & D

bis(2-Ethylhexyl)phthalate

bis(2-chloroksopropyr)Ether 995E - 028001D 47448

Quality Control Data

Qualifier	JIMIT	RPD	레메니	%BEC	Result	lava.l	સ્ત્રાંતU	MRL	Result	 -	edylenA
	QQA		%BEC		Source	Spike					

Taw Qri\Qm

ээм бү/бш

8270C Semi-Volatile Organic Compounds

EEE.O

EEE.0

			Dependabili		yilleu	əsivrə2 +	
185 F	Frances Avenue, Cransto	iton, RJ 02910	L 1177-0	Tel: 401-461-7	181	Fax: 401-461-4486	http://www.ESSLaboratory.com
lonshiganalrizhT-2,	:	17,5	555,0	зэм бх/бш	EEE.E	18	30-130
ionariquositastasT-3,P,	:	99'7	Z9'T	ж бу/бш т	EEE.E	08	30-730
-Dichloroberzene	:	5.56	EEE.0	ша/ка мер	EEE,E	Щ	Q+1-0+
-Dichlorobenzene	:	95°7	EEE.0	ээм бу/би	EEE.E	LL	40-140
-Dichlorobenzene	:	797	EEE.O	ээм бу/Бш	EEE.E	64	061-06
anasnadorolrbirT-4,	:	2,70	EEE.0	TOW COLUCIA	EEE.E	18	0 ₱₮- 0 ₱
knadqi8-		۷9٬۲	0.333	19M fb(/fbu	EEE.E	09	40-140
5							
pogate: p-Terphenyl-d14		19°E		тым бу/бш	EEE E	801	0E1-0E
ур-үси э үү : этебал		68'E		рам бу/бш	000'5		OET-OE
<u> Эр-эмэгнэдалуу :эзебал</u>		88.2		зэм бу/бш	EEE.E	28	0E1-0E
ionarigonauti-s :atagon		4.20		ээм бу/бш	000'5		0ET-0E
иодарь: 5-цпогоріруєну		ro∙e		Jam By/Bill	EEE.E		30-130
но-ноинуючоную-с : этябал	•	58.€		Jam By/Bill	000'5	<u>u</u>	30-130
lonariqomandhT-8,4,5 :adagan	,	62'5		ээм бу/бш	000'5	901	0E1-0E
Мо-эквитедалайдад-2, 1 :эде д ал	HP-	687		Taw gallgm	EEE'E	<i>28</i>	0EI-0E
aulb		QN	Z9'T	ээм бу/бш			
945		QN	EEE.0	рым бу/бш			
lon		Ф	EEE.O	ээм бу/бш			
ลกลาสากก		ПD	EEE.0	TEAM (DI)/(DU)			
lonshtenolitasi		ДN	∠9°T	mg/kg wet			
inosodiphenylamine		ПD	EEE.0	TEAM BY/BU			
элітыудол4-п-Ю-оготіі		ДN	£££,0	жм фубш			
элітыүлінгірогалі		ŒΝ	EEE.O	ээм бу/бш			
эшэхцэд		CIN	EEE.0	TOW COLUMN			
hidalene		QN	EEE.O	рам бу/бш			
anoroch		QN.	EEE.O	там бој/бш			
anany4(bo-£,≤,≀)ore		ON	EEE.0	ээм бу/бш			
ansithacholitae		QN	656.0	⊒aw gol\gm			
achiomocyclopentadiene		QN	79.1	ээм бэ/бш			
echlorobutadiene		QN.	EEE.O	шм бу/бш			
achlorobenzene		QN.	491.0	TOW COLUCTION			
SUES		QN.	£££.0	рым бу/бш			
anarthran		QN.	EEE.O	тэм бу/бш			
stalerthiqi\zo-		QN.	EEE.O	ээм бу/бш			
-butylphthalate		dN	EEE.0 505.0	TOW DI/DUI			
atalartiriqiyriba		QN QN	EEE.O	ээм бу/бш			
staledtidy(i		QN	EEE.0 EEE.0	рам бу/бш			
nentřoste		QN QN	EEE.O	ээм бу/бш			
			791.0	THE DISTRIBUTION AND THE PROPERTY AND TH			
enzerthrA(fi,s)ozre		ND		mg/kg wet			
26/16		dn dn	791.0				
Stole		QN	£££.0	LING/KG WEE			
atsisrtiriqiysnadi	I	ON	EEE.O	TEW DY/DIM			



$BAL\ Laboratory$ The Microbiology Division

of Thielsch Engineering, Inc.

ESS Laboratory Work Order: 1012068

 $ext{ESS Laboratory}$



Client Name: RC & D

CEKLILICYLE OL YNYTKZIZ

Client Project ID: Lincoln Lace ESS L

Quality Control Data

1	19ñilsuQ	ЯшЦ	QQA	złimLi	%BEC	Result	leve.	ztlnU	MRL	Result	stylenA
		OSA		%EEC		Source	Spike				

8270C Semi-Volatile Organic Compounds

			_			
Chrysene	3,30	∠91 ′0	mg/kg wet	EEE.E	66	40-140
Carbazole	92.2	EEE.0	тэм бу/бш	EEE.E	£8	0b1-0b
Butylbenzylphthalate	56"7	666.0	зам бу/бш	EEE.E	68	09T-09
bis(2-Ethylnexyl)phthalatte	7'61	EEE.0	ээм бу/бш	EEE.E	48	0+7- 0 +
hydongospolyther	79'7	666,0	TOW (DI/JOU)	EEE.E	59	40-140
pie(s-chloroethyl)ether	75.7	EEE.0	mg/kg wet	EEE,E	14	40-140
bis(2-Chlomethoxy)methane	2'44	£££.0	വർപ്പൻ കണ്ട	EEE.E	EL	4D-140
loricola lysned	2.45	EEE.0	рым бој/бш	EEE.E	EZ	40-140
Benzolc Acid	1.87	79.1	там бу/бш	EEE.E	95	0+T-0+
Benzo(k)ñuoranthene	95°E	EEE.O	ээм бу/бш	EEE.E	901	40-140
Benzo(g,h,l)penyene	3172	EEE.O	mg/kg wet	5,333	56	0b1-0b
Benzo(b)fivoranthene	79.2	EEE.O	эм бу/бш	EEE.E	98	40-140
Велхо(а)ругеле	3.57	491 .0	эм бу/бш	EEE.E	TOT	0+1-0+
Benzo(a)antinacene	3.20	666.0	рым бу/бш	EEE.E	96	0+T-0+
Aznedoza	5'49	EEE.0	рым бу/бш	EEE.E	SZ	40-140
areas ritinA	3.21	0.333	pa δη/δω	EEE.E	96	40-140
ənilinA	27.72	Z99 °0	TAM DOL/DU	565,5	⊬ 9	061-06
Acetophenone	3.01	Z99 '0	ээм бу/бш	EEE.E	06	40-140
Acenaphthylene	59'7	EEE.O	рам бу/бш	EEE.E	64	0+T-0+
ərentriqsnəsiA	2.98	EEE.O	рм бу/бш	EEE.E	06	0+T-0 +
lonariquativ-t	7.90 T	Z9'T	зам бі/бш	EEE.E	45	30-130
antineortiti-	P9.S	EEE.0	ээм бу/бш	EEE.E	64	061-06
4-Chloro-phenyi-phenyl ether	08.2	EEE.O	ээм бу/бш	EEE.E	₽8	d-1-0+
Chloropoline	19'1	Z99'0	зэм бэ/бш	EEE.E	86	0+T-0 +
lonariqiyattaM-E-cnoirD-M	5.53	EEE.O	эм бу/бш	EEE.E	94	0ET-0E
4-вготорієнуі-рінатуютья	90'E	EEE.O	зэм бу/бш	EEE.E	76	40-140
lonenthytiaM-S-catiniG-8,P	28.2	۲9٬۲	зэм бу/бш	EEE.E	58	0E1-0E
эліlіnsотіМ-Е	19.5	EEE.O	ъм бу/бш	EEE.E	7.7	0+1-0+
3+4-Methylphenol	06'5	Z99:0	зам бэ/бш	Z99 '9	69	OET-DE
anibisradorolchoid-`E,E	95°Z	Z99°0	зам бу/бш	EEE.E	<u>LL</u>	0+T-0+
lore/tqot/iN-S	99.2	EEE.0	зэм бу/бш	EEE,E	08	30-130
anilin≤crtil/-S	2.55	EEE.O	Jaw gol/gm	EEE.E	94	0+T-0+
2-Methylphenol	75.5	EEE.0	Jan 63//5m	EEE.E	94	0ET-0E
3-Methylnaphthatene	727	EEE.0	ээм бу/бш	EEE.E	94	40-140
y-chlorophenoi	2.25	EEE.O	зам бу/бш	EEE.E	89	30-130
S-dhiomraphthalene	7.57	£66.0	saw gal/gm	EEE.E	44	01-1-0b
ansulatoratinid-8,s	98.2	EEE.0	⊋aw gol/gm	EEE.E	98	40-740
ansukatatinki-P,S	18.2	EEE.O	Jaw Gi/Qm	EEE.E	b9	0+1-0+
lonarido tinid-P, S	8 7 .2	Z9'T	⊋ м бу/бш	EEE.E	b2	30-130
loradqlydamid-P,S	S⊬.2	EEE.0	ээм бу/бш	EEE.E	EZ	901-06
lonariomotrario!	2.61	EEE.O	там бу/бш	EEE.E	87	30-730
lon ariquiolit hin-6, P ,S	2,98	£££.0	Jaw gal/gm	EEE.E 555.5	68	30-130

Dependability • Quality •

Tel: 401-461-7181

жм бу/бш

Jaw 61/6W

там бу/бш

Z91'0

EEE.E

EEE.E

EEE'E

185 Frances Avenue, Cranston, RI 02910-2211

77,5

72.E

Stalertholyrbaid

Dibenzo(a,h)Anthracene

Dibenzofuran

Service

28

79x: 401-461-4486

http://www.ESSLaboratory.com

0+1-0+

0+T-0+

0+1-0+



$BAL\ Laboratory$ The Microbiology Division

of Thielsch Engineering, Inc.

ESS Laboratory



Batch CL00820 - 3546 Dimethylphthalate

Division of Thielsch Engineering, Inc.

94°Z

CEKLIŁICYLE OŁ YNYTKSIS

ESS Laboratory Work Order: 1012068

83

Client Name: RC & D Client Project ID: Lincoln Lace

Quality Control Data

	Sharington States O elitelet (mos 200509													
91ylsnA	Result	MRL	ztinU	level	Result	%REC	złimU	OPA	Пт	Qualifler				
				Spike	Source		%BEC		QQA					

EEE.0

2DOLLOGOO 1 2IGEDAL 1 SIGELOV-IMS/ KI//X	compounds	Organic	8270C Semi-Volatile
--	-----------	---------	---------------------

EEE.E

			Dependabili	A Gr		epivne2 +				
	185 Frances Avenue, Crans	Cranston, RJ 0291	Z 1177-0167	17-181-104:15	[Fax: 401-461-448	w//:gttd di	vw.ESSLab	moo.yrojano	
2-Chlorophenol		₽ ₩ °Z	666.0	39M dis/lym	£££.,		73 30-130	8	30	
SmalertiriqenorolrD-S		2.40	EEE.0 555.0	там бу/бш	EEE.		72 40-140	4	30	
Sneutratation 2, S		10.E	£££.0	39M Ø)/ØW	EEE.		00 40-140	s	30	
SneutoratinKi-P,S		3.10	666.0	зам бо/бш	EEE,		63 40-140	70	30	
lonariquatiniQ-P,S		77.5	49°T	3≥w Qu/Qm	EEE.		83 30-130	11	30	
lonariqfyrtiamiG-4,5		27.2	£66.0	ээм бу/бш	555,		0E1-0E Z8	οτ	30	
lorentoprioridate, S. formula de la companya de la		77,5	EEE.0	рым бу/бш	EEE.		051-05 58	9	30	
lonarigorolitahT-a,P,S		£6.5	EEE.0	тым фу/бш	EEE.		061-06 88	ž	30	
lonariquiolribhT-2,4,5,5		€0.€	EEE.0	am gol/gm	EEE.		061 GE 130 061-06 16	II	30	
lonariquoirbata T-3,P,E,S		20.€ £0.€	Z9"T	ээм бэ/үрш	EEE.		051-05 16	EI	30	
				эм бу/бш	EEE.		01 40-140	9	30	
1,4-Dichlorobenzene		2.71	EEE.O	THM DI/DU						
arestredorolraid-E,1		7'29	626.0		EEE.		0+1-0+ 22	£.0	30	
3,2-Dichlorobenzene		7.62	656.0	T∋w ga/gan	EEE.		0+1-0+ 62	S0.0	30	
1.2,4-Trichlorobenzene		92'7	EEE.O	TOWN EXILE	EEE.		093 40-140	7	30	
1,1-Biphenyl		2.86	££E.0	Jaw QV/Qm	EEE.		89 40-140	۷	Œ	
LCS Dup										
Surogate: p-Terphanyl-di	*	≽ΓΈ		∓ м бу/бш	EEE		OET-OE 16			
Surrogate: Phenol-d6		09°E		Ing/kg wet	0003		OET-OE ZZ			
Surrogatie: Mitrobenzene-o		19'Z		mg/kg wet	EEE.I		0ET-0E 82			
jaunydaiany-z :zgebauns		88.€		зэм бу/бш	0003		061-06 82			
Surrogate: 2-Fluorotiphen		867		THM BY/BU	EEE.I		0ET-0E 06			
Surregale: 2-Chlorophenol		ZZ'E		aw gal∖gm	0003		OET-OE \$2			
ртанді 2,4,6-тібратиг		SE'S		TOW DOLLO	0003		0E 1-0E 201			
Sumogate: 1,2-Dichlorobe	ур-эсехс	27.2		ээм бубш	EEE"		0ET-0E 18			
Pyridine		82.28	49"፤	⊅w gal\gm	EEE.		0+1-0+ 69			
Pyriene		3.19	EEE.O	THM DY/DU	EEE.		0+ ₹-0+ 96			
Phenoi		2,03	EEE.0	;=w ďoj/ďui	EEE,		061-06 19			
Phenanthrane		26.5	EEE.O	∌w gol\gm	EEE.		87 40-140			
lore/qorol/beins/		2,64	49°T	⊋м бҳ/бш	EEE.		92 30-130			
M-nitrosodiphenylamine		36'7	EEE.O	aw gol∖gm	EEE.		89 40-140			
M-Witneso-tol-n-fo-ozoutiw-M		35.2	666.0	ээм бу/бш	EEE.		71 40-140			
M-Nitroscotinethylamine		5'44	EEE.O	тым бу/бш	EEE.		73 40-140			
Mitrobenzene		2.39	EEC.O	paw doj/diu	EEE.		72 40-140			
Maphthalene		5*6	EEE.O	æw gal∕gm	EEE.		0+T-0+ SZ			
encnordazi		7°89	EEE.O	19W Q1/Q1	EEE.		26 40-140			
ananyq(bo-6,5,1)anabni		37.6	666.0	зэм бэ/бш	EEE.		051-06			
ansittacroldascaH		75.51	EEE.O	⊋w gλ/gm	EEE.		0 +1-0+ \$2			
Hexachlorocydopentadlene	-	2.53	<i>1</i> 97	am gol∖gm	EEE.		0+1-0+ 9L			
SeathardonalcaseH		2,61	6.333	TOWN EDITOR	EEE.		84 40-140			
Hexachiorobasene		8S.E	791.0	TOWN DOL/DOW	EEE.		0+T-0+ 96			
SrenouFl		58.2	666.0	an to√om	EEE.		05 40-140 87			
Snarthnsnouff 		2.91	EEE.O	∓aw doj/diu	EEE.		0+I-0+ 78			
Di-n-octyphitisize		06.5	0 233	1∋w gol/gm	EEE.		0+1-0+ 78			
Di-n-butylphthalate		07.2	EEE.O	THM CHI/GIU	EEE.		0+1-0+ 19			
ateledidelyheles [[]		02.6	ecc u	- System			0.70			



The Microbiology Division of Thielsch Engineering, Inc. BAL Laboratory

Division of Thielsch Engineering, Inc. ESS Laboratory



2-Methylnaphthalene Batch CL00820 - 3546

CEKLIŁICYLE OŁ YNYTKZIZ

ESS Laboratory Work Order: 1012068

Client Project ID: Lincoln Lace Client Name: RC & D

		√-im э ≳ ⊃0\ऽ8	gnO əlitelo\	moD Dine	spunod					
etylenA	Result	MRL	zilnU	leva.l	Result	Ω∃H%	zimU	ВРБ	ЯmЦ	Gnelither
				Zbike	Source		% BEC		RPD	

IS ane q						»	annunda a		
	moa.vroisi	ode,1233.	ущь://www	1.461-4486 Service	181 Fex: 40 melity +	7-184-104:1 - T 9	10-2211 Debendabi	s Avenue, Cranston, RI 029	581 France
	30	10	40-140	№8	EEE.E	зам бу/бш	29 °T	28.2	Hexachlorocydopentadiene
	30	01	0+I-0+	E6	EEE.E	зам бу/бш	EEE.O	DI.E	Headhordene
	OE.	5	40-140	⊬ 6	EEE.E	mg/kg wet	Z91°0	EI.E	Heuschlorobenzene
	30	Ε	d+T-0+	69	555.5	FIN Ø3/ØW	EEE.0	96'Z	∋rr∋nou∏
	30	8	40-140	S6	666.6	⊋aw £xi/bu	666.0	ST.E	Fluoranthene
	O€	ÞΤ	0 51-05	700	EEE.E	ээм бу/бш	EEE.Q	SE'E	stalsrithqlytbo-n-IQ
	9€	6	40-140	88	EEE.E	зам бу/бш	666.0	56°Z	anslarthiqfyJud-n-iQ
	0€	₽.0	0+1-0+	93	EEE.E	DW QV/Qm	EEE.0	57.75	Sinstity of the Particular State
	30	75	0+T-0+	68	EEE.E	зам бу/бш	EEE.0	96'Z	Diethylphthalate
	30	b	40-140	64	EEE.E	∓ М бу/бш	EEE.0	7.62	nsrutaxredid
	30	E	0bT-0b	101	EEE.E	ж бу/бш	Z9T'0	9E.E	Dibenzo(a,h)Anthracene
	9€	₽ '0	40-1 40	700	EEE.E	₩ Ø//Øm	491 .0	SE,E	Chysene
	30	۷	40-140	06	3,333	mg/kg wet	EEE.0	7 26	Slozeche
	30	στ	40-140	96	EEE.E	ээм бу/бш	EEE.O	92.E	etislartridiyznediytu8
	30	75	40-140	66	EEE.E	там бу/бш	EEE.O	6 <u>2,</u> £	stalarthriq(lycsrllyrtt3-2)eid
	30	8	0+T-0+	87	EEE.E	эм ф/бш	EEE.0	19'Z	bis(2-chloroisopropyl)Ether
	30	9	40-140	LL	EEE.E	THE GALDAN	EEE.0	3,56	bis(2-Chloroethyl)ether
	30	6	40-140	08	EEE.E	æw go∏gm	EEE.0	197	bis(2-Chloroethoxy)methane
	30	7	40-140	7.5	EEE.E	ж до/урт т	EEE.O	14.5	Benzyl Akohol
+G	30	94	40-140	06	£££,£	∓АМ бэ[/БШ	Z9'T	3,00	Benzald
	30	7.0	40-140	901	EEE.E	∌w gi/gm	EEE.0	3.52	Benzo(k)fluoranthene
	30	8	40-140	102	3,333	∌w ga/gm	EEE.0	14.8	Benzo(g,h,l)perylene
	30	Bī	40-140	103	EEE.E	pam doj/diu	EEE.O	3.42	Benzo(b)fluoranthene
	30	E	40-140	102	EÉE.E	тым бу/бш	Z91°0	6Þ.E	Benzo(a)pyrene
	90	9	0+I-0+	102	EEE.E	paw dal/dm	EEE.0	3,39	Benzo(a)anthracene
	30	8	40-14D	10	ECE.E	3⊒w ga/gm	EEE.0	69°Z	SneznedoxA
	30	Þ	40-140	76	EEE.E	тэм бу/бш	666.0	70.£	⇒re⊃cirtínÂ
	30	7.7	061-06	15	EEE.E	Jam En/Eu	299'0	P.S.S 17.1	Acrophenone Aniline
	Œ	52	40-140	04	EEE.E	рам бу/бш том бу/бш	799.0	ZL'Z	Acensphitiylene
	30	E	40-140	28	EEE.E	SOM BY/BU	EEE.0	667	эre-dringenso-A
	30	50.0	40-140	06	EEE.E	дәм бу/бш дәм бу/бш	79.1 78.2	02.E	loneriqualiN-P
+0	30	TS	30-130	96	EEE.E	там бу/бш	EEE.O	SI.E	anitinecrativa e
	30	91	0+1-0+	Þ6	EEE,E EEE,E	Jaw Es/Jon	EEE.0 EEE.0	2.93	4-Chloro-phenyl-phenyl ether
	30	b	40-140	88 55	5.533	ээм бубш	Z99'0	P8.1	4-Chloroaniline
	30	ET	40-140		EEE.E	зам бу/бш	EEE.0	87. <u>5</u>	F-Chloro-3-Methytphenol
	30	6	30-130	E8 16	EEE.E	тэм бу/бш	EEE.O	20.E	4-Bromophenyl-phenylether
	30	Ţ	0+T-0+	£6	555.5	354 ga/gm	Z9'T	3.09	lonerlqtyrtasM-S-ordiniG-3,P
	0£ 30	6 8	30-130 40-140	87	EEE.E	зэм бу/бш	EEE.O	797	anlinsoutM-E
+a	30	£E.	30-130	E9	Z99'9	там бу/бш	499'0	£2.P	3+4-Methylphenol
70	00	77	40-140	89	EEE.E	Jaw Gil/Gri	799.0	82.2	5,5 '-Dichlorobenzidine
	0£	6	30-130	88	£66.6	з∋и бх/бш	EEE.O	767	koraphenol
	30	02	40-140	₩6	EEE.E	Jam By/Bill	EEE.0	51.6	2-Nitroaniline
	30	1.0	30-130	54	EEE.E	TEM ČIJĪDU	EEE.O	75.51	lonariqiyittaM-S
	OE.		01.7 VL	***		man district		0.17	วะเวเตะการต่องเหมือน 2



$BAL\ Laboratory \\ ^{\mathit{The Microbiology Division}} \\ \text{of Thielsch Engineecheg, Inc.} \\$

ESS Laboratory Division of Thielsch Engineering, Inc.



894ch CL00820 - 3546

CEKLIŁICYLE OŁ YNYTKZIZ

GIGIANUTI IA GIIIAI IIINA

ESS Laboratory Work Order: 1012068

Client Name: RC & D Client Project ID: Lincoln Lace

Quality Control Data

		Qualifier	OPD Umit	RPD	23A# 21mL	%BEC	Source Result	Spike	zilnU	HRL	HueaR	atylenA
--	--	-----------	-------------	-----	--------------	------	------------------	-------	-------	-----	-------	---------

S270C Semi-Volatile Organic Compounds

	₽E'E							
у другий зарабацая			ээм бу/бш	£££.£	100	OET-OE		
	89°E		FAM GN/GIU	000'5	1/2	0ET-0E		
Z Sp-anaznadoriik ;ariegoriu?	06°Z		эм бу/бш	EEE'E	<i>18</i>	0ET-0E		
E jorendownii-s alegarus	65'E		jaw či√čiu	000.2	22	0ET-0E		
E Niedplanau R-S : stiegorius	20.ε		jaw či√čiu	EEE'E	26	0EI-0E		
E Ph-lorentqarolis : 2-ciliarophenol-64	SZ'E		там бу/бш	000'5	52	0ET-0E		
S ionadomardnī-a,4,6-sutagarus	92.2		JEAN ESI/EUI	000'5	501	0ET-0E		
Surrogate: 1,2-Dichloroberzere-d+	55.5		aw gal/gm	EEE'E	94	30-130		
Pytidine 2.	25.5	/9 'T	эм булбш	EEE.E	9/	40-140	10	30
Pyrene 3.	EE.E	EEE.O	ж м бу/бш	EEE.E	700	40-140	Þ	30
Phenol 2.	3.66	EEE.0	mg/kg wet	EEE.E	08	30-130	22	30
Phenanthrane 2.	5.89	665.0	ъм бу/бш	EEE.E	78	0+1-0+	8.0	30
Pentachiorophenol 3.	3.32	1.67	THAN GOL/DITE	EEE.E	TOO	30-130	91	30
N-nitrosociphenylamine 3.	70.€	EEE.O	эм бу/бш	EEE.E	76	40-140	*	30
.S. solmiskygar4-n-iO-ozariiN-N	2.46	EEE.O	ж м бі/бш	EEE.E	5 4	0+1-0+	b	30
M-Nitrosodimethylamine 2.	89.2	EEE.O	рм бу/бш	EEE.E	0.9	0+T-Q+	6	30
Nitrobenzene 2.	64.2	EEE.0	±w g/kg wet	EEE.E	₩ 9	0+T-0+	ST	30
Asphitasine 2.	92'7	£££.0	эм бу/бш	EEE.E	69	40-140	10	30
Isophorone 2.	2.23	6,333	эм бубш	EEE.E	Z9	40-140	18	30
.c Smary(lb-E,2,1)orabin	3E.E	EEE.O	э м бү/бш	EEE.E	101	40-140	E	30
Hexachloroethane 2.	79.2	EEE.O	wā/yā meţ	EEE.E	08	40-140	9	30



The Microbiology Division BAL Laboratory

of Thielsch Engineering, Inc.

ESS Laboratory Work Order: 1012068

ESS Laboratory



Division of Thielsch Engineering, Inc.

CEKLIŁICYLE OŁ YNYTKZIZ

Client Project ID: Lincoln Lace Client Name: RC & D

Notes and Definitions

Calibration required quadratic regression (Q). Q Analyte included in the analysis, but not detected Ω

Matrix Spike recovery is above upper control limit (M+). +M

Reported between MDL and MRL; Estimated value.

Relative percent difference for duplicate is outside of criteria (D+). D+

Diluted. a

Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes ND

Relative Percent Difference **KPD** Sample results reported on a dry weight basis ζıp

Method Reporting Limit MKT Method Detection Limit MDF

гоб Limit of Quantitation Limit of Detection rod

Initial Volume Λ/I DF Detection Limit

Final Volume ŁΛ

Š Subcontracted analysis; see attached report

Range result excludes concentrations of target analytes eluting in that range. Range result excludes concentrations of surrogates and/or internal standards cluting in that range. 1

Range result excludes the concentration of the C9-C10 aromatic range. ε 7

AVE Results reported as a mathematical average.

[CALC] Calculated Analyte Ио Кесоуету NK

http://www.ESSLaboratory.com

Fax: 401-461-4486

Tel: 401-461-7181

185 Frances Avenue, Cranston, RJ 02910-2211

Dependability



of Thielsch Engineering, Inc.

The Microbiology Division

Division of Thielsch Engineering, Inc.

ESS Laboratory

Client Name: RC & D

Client Project ID: Lincoln Lace

CEKLIŁICYLE OŁ YNYTKSIZ

ESS Laboratory Work Order: 1012068

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENAIRONMENTAL

A2LA Accredited: Testing Cert# 2864.01 Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

http://www.ls2la.org/scopepdf/2864-01.pdf

http://www.health.ri.gov/labs/waterlabs-instate.php Rhode Island Potable and Non Potable Water: LA100179

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf Maine Potable and Non Potable Water: R10002

http://public.dep.state.ma.us/labcert/labcert.aspx Massachusetts Potable and Non Potable Water: M-R1002

http://www4.egov.nh.gov/des/nhelap/namesearch.asp New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

http://www.wadsworth.org/labcert/elap/comm.html New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313

United States Department of Agriculture Soil Permit: 5-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20_ibm.

South Carolina Volatile Organic Compounds in Potable Water: 78003

mtd.sdelhao/epo/deb/vog.in.www/\;qtid New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: R1002

http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0901 accredited laboratories.pdf Pensylvania Potable and Mon Potable Water, Solid and Hazardous Waste: 68-01752

CHEMIZLEX

http://www.A2L.A.org/dirsearchnew/newsearch.cfm Lead in Paint, Phihalates, Lead in Children's Metals Products (Including Jewelry) A2LA Accredited: Testing Cert # 2864.01

http://www.cpsc.gov/cgi-bin/labapplist.aspx Lead Paint, Lead in Children's Metals Jewelry CPSC ID# 1141

VesMo

ON SAY

ON

SOY

ON

A/N

SOL

SOY

Sample and Cooler Receipt Checklist

Client: RC and D

Cllent Project ID:

Shipped/Delivered Vla: ESS Courier

Items to be checked upon receipt:

4. Is Radiation count < 100 CPM? SBY 14, Sufficient sample volumes? 3. Were Custody Seals Intact? 13. Holding times exceeded? A/N 2. Were Custody Seals Present? 12. Any alr bubbles in the VOA vials? ON :.ol/ 1iA 11. Proper sample containers used? 1. Air BIII Manifest Present? 10. Are the samples properly preserved? ON +

18. Was there need to call project manager to discuss status? If yes, please explain.

SOY

SOY

SOY

SBA

ON +

Iced With: None Cooler Temp: NA

5. Is a cooler present?

7. Was COC signed and dated by cllent? 6. Was COC included with samples?

8. Does the COC match the sample

9. Is COC complete and correct?

Reviewed By: :9mIT\9f6Q Completed By: Date/Time: 16 Soil Jar Yes dN Yes AOV - Im 04 HOeM χçε 18L lios so 4 dИ Sample Number Ргорену Ргеserved Container Type # of Containers Preservative Who was called?: Ву мћот?

:TAT

:sisylenA

Sub Lab:

ESS Sample IDs: 💳

Days For Project: 3 Day

Date Project Due: 12/10/10

ESS Project ID: 10120068

17. Were samples received intact?

15. Any Subcontracting needed?

16, Are ESS labels on correct containers?

atory	CHAIN OF CUSTODY	ODY	Page_
ngineering, Inc.		Reporting Limits	ESS L
Cranston, RI 02910-2211	tory is required #	RI RESDEC	0
rax (401) 401-4460	MA AU CI NH NJ NY ME Other	Electronic Deliverable	χ ğ

Relinquished	Celinquished	ooler Temp:	eals Intact	Cooler Present	Container Type:								2	-	ESS LAB Sample #	Telephone *	Por	Popular Pers	RC+D	Co. Name	www.essia	[el. (401)	85 Franc	7:
telinquished by: (Signature)			Yes	Yes	pe: P-Poly G-Glass								12/2/10	12/7/10	Dare	Telephone # 270-5483	Providence	Rob Schuster	† V	-	www.essiaboratory.com	461-7181	ces Avenue, (ב ליינייל ב
Date/Time	Date/Time		No NA:	N _o	S-Sterile								14:00	13:00	Collection Time		State	Cr			p	Tel. (401) 461-7181 Fax (401) 461-4486	185 Frances Avenue, Cranston, RI 02910-2211	***************************************
Reco			_ []	Inte	V-VOA	┝				. !		_			COMP	1.27						61-44	77. 0291	F
ived by	1] Technicians	[] Pickup	rnal Us	Matrix							\Box	_ -		MATRIX	110						86	0-22	
Received by: (Signature)	Received Toggowing	cians	Ü	Internal Use Only	Matrix: S-Soil SD-								100-10PES-09	1006-READTS	Sa	401-270-5486	02205	17 Gordon Ave., Swite 204	2007	Project #	TM.	_	_	-
	13	Com	Samp	Prese	SD-Solid								LOP	RE,	mple Id		20	rdo			A-MCP		aster th	
Date	Date /3.7	Comments:	Sampled by:	Preservation Code 1-NP, 2-HC1, 3-H ₂ SO ₄ , 4-HNO ₃ ,	D-Sludge								ES	107	Sample Identification (20 Char, or less)	mblack er chding, com	,	B	Lin	Projec	Is this project for any of the following: MA-MCP Navy USACE	MA AU CI NH NJ NY ME	If faster than 5 days, prior approval by laboratory is required	
Date/Time	Date/Time 13:70		Mil	Code 1									6		ion (20 ¢	Address Address	PO#	10.	Lincoln	Project Name (20 Char, or less)	Navy	NH	s, prior	
20	~		M. Blace	- NP 2	WW-Waste Water								-0	-05	Than, or be	Cha		22	1	(20 Char.	ie follow	Z	approv	2
Relinquished by: (Signature)	Relinquished by: (Signature)		18	HC1,										01	٥	line		teo	Lace	or less)	SO.	XX	l by lab	
led by: (ied by: (3- H.S(GW-Ground Water	Н			\vdash	\neg	\vdash	+	-	-	Pres	(0/1		404		Ì	ACE	Œ	Ome	
Signan	Signati), 4- F	ound 1	Н							-	\vdash	Code Numbe					┨	Other	Other	is requ	N
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Ď	ק			S- Na	SW-S	Щ								X	826			524.2		٦				
Date/Time	Date/Time			NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-	SW-Surface Water		_			\dashv	_		+		802: MT8E/81	8100)		VPH	_					
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^{*}By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

4	



EA Engineering, Science, and Technology, Inc. 2374 Post Road, Suite 102 Warwick, Rhode Island 02886 Telephone: (401) 736-3440

FAX: (401) 736-3423

EA Project No. 61891.05 PROVIDENCE, RHODE ISLAND

CONSTRUCTION SUBMITTAL APPROVAL

Submittal	1006-14	

Description: Gravel and Topsoil Testing Results

Specification Section: 31 00 00

APPROVED AS NOTED	[]
APPROVED	[X]
REVISE AND RESUBMIT	[]
NOT APPROVED	1.1

Engineer's review and approval of this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in Contract Documents and conformance with design concept of completed Project as a functioning whole. CONTRACTOR is, and ENGINEER is NOT, responsible for all matters relating to fabrication, shipping, handling, storage, assembly, and installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.

Engineer:

Original signed by Stephen Curtis Mason, P.E.

The attached submittal is recommended for approval. Please ensure if soil quantities exceed the currently approved amounts (4,000 CY gravel, 2,000 CY topsoil) additional analytical tests are conducted in accordance with the contract documents.

MANUFACTURENES (CENTRICALVERS) Probabilistic probabili		TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT	YT DATA, MATERIAL SAMPLES, OR		DATE:			TRANSMITTAL NO:		
CONTRACT NO: CONTRACT NO: CHECK ONE: CHECK ONE: CHECK ONE: THIS IS A NEW TRANS THIS IS A NEW TRANS THIS IS A NEW TRANS THANSMITTAL THANSMITTAL THANSMITTAL THANSMITTAL THANSMITTAL THANSMITTAL THANSMITTAL TOOLINEAT SPEC. DRAWING A 31 00 00 A 31 00 00 A 31 00 00 A A Tecrify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael Michael NAME AND SIGNATURE OF CONTRACTOR NAME AND SIGNATURE OF CONTRACTOR DATE DATE DATE OF ——		MANUFACTURER'S CERTIFICATI (Read instructions on reverse side prior to	ES OF COMPLIANCE orinitating this form)		Ň	vember 12, 2	2010	100	6-14	
CONTRACT NO: ESTHIS IS A NEW TRANS Lincoln Late & Braid Site Remediation Project Providence, RI NO. OF CONTRACT REFERENCE ODCUMENT SPEC. DOCUMENT A. E. C. R. B.		SECTION I - REQUEST F	OR APPROVAL OF THE F	OLLOWING ITEMS (This	s section wil	II be initiated by	the Contract	or)		
S31451 Lincoln Lace & Braid Site Remediation Project Providence, RI NO. OF CONTRACT REFERENCE COPTES BARA. NO. SHEET NO. d. f. g. h 31 00 00 1 certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. NAME AND SIGNATURE OF CONTRACTOR Name and specifications except as otherwise stated. Michael	TO:		FROM:		CONTRA	CT NO:		CHECK ONE:		
NO. OF CONTRACT REFERENCE COPIES DOCUMENT A. e. f. B. h. 11 00 00 I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. NAME AND SIGNATURE OF CONTRACTOR Michael Michael Michael DATE DATE DATE TRANSMITTAL TRANSMITTAL TO ARIA See ins Roce	EA 235	Engineering, Science, and Technology, Inc. () Post Road	RC&D, Inc. 17 Gordon Avenue, Suit	e 204		521451			TRANSMITTAL JBMITTAL OF	
NO. OF CONTRACT REFERENCE FOR VARIA COPIES DOCUMENT CONTRACTOR (See instance) A. C. C. CONTRACT REFERENCE FOR CONTRACTOR (See instance) A. C. C. CONTRACTOR (See instance) BARA. NO. SHEET NO. CONTRACTOR (See instance) A. S. C. C. CONTRACTOR (See instance) BARA. NO. C.	i	rwick, RI 02886	Providence, RJ 02905			331431			ا	
NO. OF CONTRACT REFERENCE FOR VARIA COPTES DOCUMENT SPEC. A. e. f. B. h 31 00 00 I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. NICHAEL NAME AND SIGNATURE OF CONTRACTOR BATE Michael DATE	SPECI	FICATION SECTION NO: (Cover only one section with each transmittel)	PROJECT TITLE AND LOCATI	ION:		Lincoln Lac	e & Braid Sit Providen	e Remediation Project		
COPIES				MFG. OR CONTR. CAT.,	NO. OF	CONTRACT R	EFERENCE	FOR	VARIATION	FOR
SPEC. DRAWING USE CODE No. d. e. f. g. h 31 00 00 A A				CURVE DRAWING OR	COPIES	DOCUM	ENT	CONTRACTOR	(See instruction	CE
d. e. f. g. h 31 00 00 A 31 00 00 A 31 00 00 A Grail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael	ITEM			BROCHURE NO.			DRAWING	USE CODE	No. 6)	USE
31 00 00 31 00 00 A 31 00 00 A Certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and apecifications except as otherwise stated. Michael Michael Michael DATE DATE	Z O ei	(Type, size, model number, etc.)		(See instruction No. 8)	þ	FAKA. NO.	SHEEL NO.	eά	£	i.
31 00 00 A I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael Michael NG AUTHORITY DATE DATE	_	Topsoil Submittal - Analytical Results + Arsenic Results				31 00 00		A		
Certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael	2	Gravel Fill Submittal - Analytical Results + Arsenic Results				31 00 00		A		
To certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael MAME AND SIGNATURE OF CONTRACTOR DATE DATE DATE										
I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael										
Certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated. Michael										
ING AUTHORITY DATE DATE DETE OLETE Sheet _ 1 _ OF _ 1 _	The ifrom	ARKS ittached testings results are for topsoil from Read Custom G. Lopes out of Carver, MA. For the topsoil, RC&D gra , TPH, SVOC, and VOC, while the remaining samples w ES DEC limits. RC&D should now be approved to haul	Soils out of Canton, MA bbed (4) total samples. Cere run for just arsenic. Jup to 2,000 CY of loam o	and for Gravel Fill One sample was run for All samples were under		l certify that the al detail and are com drawings and spec	bove submitted ect and in strict iffeations excep	iems have been reviewed i conformance with the cont rt as otherwise stated.	nact Iichael Black	
ING AUTHORITY DATE DATE DATE	Fort	he Gravel Fill, reference previously approved transmittal	1006-009 for analytical re	esults. RC&D grabbed		1				
NAME AND SIGNATURE OF CONTRACTOR OVING AUTHORITY DATE OBSOLETE Sheet! OF!	anoth	ier (7) samples of gravel fill. One sample was run for PP	13, TPH, SVOC, and VO	C, while the remaining						
OVING AUTHORITY DATE OBSOLETE Sheet! OF!	Samp	les were run tor just arsenic. All samples were unuer une yved to haul up to 4,000 CY of gravel fill on-site as a tota	of (8) samples have been	n tested and passed.		1	NAME AND	SIGNATURE OF CONTR	ACTOR	
ED (List by Item No.) NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY DATE (2x 415-1-19) EDITION OF AUG 89 IS OBSOLETE Sheet! OF!_			SECTION II	- APPROVAL ACTION						
	ENCI	OSURES RETURNED (List by Item No.)	NAME, TITLE AND SIG	GNATURE OF APPROV	ING AUT	HORITY		DATE		
	ENG	70RM 4025, OCT 99	(ER 415-1-10)	EDITION OF AUG 89 IS OBS	SOLETE			DF1_	(Proponent	CEMP-CE)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Rob Schuster RC & D 17 Gordon Avenue, Suite 204 Providence, RI 02905-1952

RE: Lincoln Lace (1006)

ESS Laboratory Work Order Number: 1011142

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

Lowel Holde

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

SAMPLE RECEIPT

The following samples were received on November 10, 2010 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1011142-01	1006Lopes-GFGrab01	Soil	6010B, 7471A, 7841, 8100M, 8260B, 8260B Low,
			8270C
1011142-02	1006-Read-TS01	Soil	6010B, 7471A, 7841, 8100M, 8260B, 8260B Low,
			8270C



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

CK01016-MS2 Matrix Spike recovery is below lower control limit (M-).

Antimony (36% @ 75-125%)

8270C Semi-Volatile Organic Compounds

CK01023-MS1 Matrix Spike recovery is below lower control limit (M-).

Benzoic Acid (% @ 40-140%)

CK01023-MSD1 Matrix Spike recovery is below lower control limit (M-).

Benzoic Acid (18% @ 40-140%)

CK01023-MSD1 Relative percent difference for duplicate is outside of criteria (D+).

2,4-Dinitrophenol (31%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte	Results (MRL)	Method	Limit	<u>DF</u>	Analyst	Analyzed	<u>I/V</u>	F/V	Batch
Antimony	ND (4.9)	6010B	10	1	SVD	11/10/10 23:01	2.18	100	CK01016
Arsenic	ND (2.4)	6010B	7	1	SVD	11/10/10 23:01	2.18	100	CK01016
Beryllium	0.13 (0.10)	6010B	0.4	1	SVD	11/10/10 23:01	2.18	100	CK01016
Cadmium	ND (0.49)	6010B	39	1	SVD	11/10/10 23:01	2.18	100	CK01016
Chromium	2.2 (1.0)	6010B	1400	1	SVD	11/10/10 23:01	2.18	100	CK01016
Copper	ND (2.4)	6010B	3100	1	SVD	11/10/10 23:01	2.18	100	CK01016
Lead	ND (4.9)	6010B	150	1	SVD	11/10/10 23:01	2.18	100	CK01016
Mercury	ND (0.032)	7471A	23	1	JР	11/10/10 19:18	0.66	40	CK01017
Nickel	ND (2.4)	6010B	1000	1	SVD	11/10/10 23:01	2.18	100	CK01016
Selenium	ND (4.9)	6010B	390	1	SVD	11/10/10 23:01	2.18	100	CK01016
Silver	ND (0.49)	6010B	200	1	SVD	11/10/10 23:01	2.18	100	CK01016
Thallium	ND (1.21)	7841	5.5	5	SVD	11/11/10 14:45	2.18	100	CK01016
Zinc	ND (2.4)	6010B	6000	1	SVD	11/10/10 23:01	2.18	100	CK01016

185 Frances Avenue, Cranston, RJ 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

Benzene

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI - RES DEC Results (MRL) <u>DF</u> Batch <u>Limit</u> <u>Analyzed</u> <u>Sequence</u> 2.2 1 11/10/10 15:14 CTK0078 CK01013 1,1,1,2-Tetrachloroethane ND (0.0040) CTK0078 CK01013 540 1 11/10/10 15:14 1,1,1-Trichloroethane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1,1,2,2-Tetrachloroethane 1.3 1 ND (0.0040) 3.6 11/10/10 15:14 CTK0078 CK01013 1,1,2-Trichloroethane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 920 1 1 1-Dichloroethane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 0.2 1 1,1-Dichloroethene ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1,1-Dichloropropene 1 ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1,2,3-Trichlorobenzene ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1 1,2,3-Trichloropropane ND (0.0040) 96 11/10/10 15:14 CTK0078 CK01013 1 1,2,4-Trichlorobenzene ND (0.0040) 1,2,4-Trimethylbenzene ND (0.0040) 1 11/10/10 15:14 CTK0078 CK01013 0.5 1 11/10/10 15:14 CTK0078 CK01013 1,2-Dibromo-3-Chloropropane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 0.01 1,2-Dibromoethane 1 ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 510 1 1,2-Dichlorobenzene ND (0.0040) 1,2-Dichloroethane 0.9 11/10/10 15:14 CTK0078 CK01013 ND (0.0040) 1.9 11/10/10 15:14 CTK0078 CK01013 1,2-Dichloropropane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1,3,5-Trimethylbenzene ND (0.0040) 11/10/10 15:14 CK01013 430 CTK0078 1,3-Dichlorobenzene ND (0.0040) 1 1 11/10/10 15:14 CTK0078 CK01013 1,3-Dichloropropane ND (0.0040) 27 11/10/10 15:14 CTK0078 CK01013 1,4-Dichlorobenzene ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1,4-Dioxane ND (0.0806) 11/10/10 15:14 CTK0078 CK01013 1-Chlorohexane ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1 2,2-Dichloropropane ND (0.0040) 10000 11/10/10 15:14 CTK0078 CK01013 2-Butanone ND (0.0403) 11/10/10 15:14 CTK0078 CK01013 1 2-Chlorotoluene ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 1 2-Hexanone ND (0.0403) 11/10/10 15:14 CTK0078 CK01013 4-Chlorotoluene ND (0.0040) 11/10/10 15:14 CTK0078 CK01013 4-Isopropyltoluene ND (0.0040) 1200 11/10/10 15:14 CTK0078 CK01013 Ī 4-Methyl-2-Pentanone ND (0.0403) 7800 11/10/10 15:14 CTK0078 CK01013 1 Acetone ND (0.0403)

ND (0.0040)

11/10/10 15:14

CTK0078

2.5

CK01013



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94 Initial Volume: 6.6 Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI - RES DEC

Analyte Bromobenzene	Results (MRL) ND (0.0040)	Limit	<u>DF</u>	<u>Analyzed</u> 11/10/10 15:14	Sequence CTK0078	Batch CK01013
Bromochloromethane	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Bromodichloromethane	ND (0.0040)	10	1	11/10/10 15:14	CTK0078	CK01013
Bromoform	ND (0.0040)	81	1	11/10/10 15:14	CTK0078	CK01013
Bromomethane	ND (0.0081)	0.8	1	11/10/10 15:14	CTK0078	CK01013
Carbon Disulfide	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Carbon Tetrachloride	ND (0.0040)	1.5	1	11/10/10 15:14	CTK0078	CK01013
Chlorobenzene	ND (0.0040)	210	1	11/10/10 15:14	CTK0078	CK01013
Chloroethane	ND (0.0081)		1	11/10/10 15:14	CTK0078	CK01013
Chloroform	ND (0.0040)	1.2	1	11/10/10 15:14	CTK0078	CK01013
Chloromethane	ND (0.0081)		1	11/10/10 15:14	CTK0078	CK01013
cis-1,2-Dichloroethene	ND (0.0040)	630	1	11/10/10 15:14	CTK0078	CK01013
cis-1,3-Dichloropropene	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Dibromochloromethane	ND (0.0040)	7.6	1	11/10/10 15:14	CTK0078	CK01013
Dibromomethane	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Dichlorodifluoromethane	ND (0.0081)		1	11/10/10 15:14	CTK0078	CK01013
Diethyl Ether	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Di-isopropyl ether	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Ethyl tertiary-butyl ether	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Ethylbenzene	ND (0.0040)	71	1	11/10/10 15:14	CTK0078	CK01013
Hexachlorobutadiene	ND (0.0040)	8.2	1	11/10/10 15:14	CTK0078	CK01013
lsopropylbenzene	ND (0.0040)	27	1	11/10/10 15:14	CTK0078	CK01013
Methyl tert-Butyl Ether	ND (0.0040)	390	1	11/10/10 15:14	CTK.0078	CK01013
Methylene Chloride	ND (0.0201)	45	1	11/10/10 15:14	CTK.0078	CK01013
Naphthalene	ND (0.0040)	54	1	11/10/10 15:14	CTK0078	CK01013
n-Butylbenzene	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
n-Propylbenzene	ND (0.0040)		i	11/10/10 15:14	CTK0078	CK01013
sec-Butylbenzene	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Styrene	ND (0.0040)	13	1	11/10/10 15:14	CTK0078	CK01013
tert-Butylbenzene	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Tertiary-amyl methyl ether	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94 Initial Volume: 6.6 Final Volume: 10 Extraction Method: 5035 ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI - RES DEC

<u>Analyte</u>	Results (MRL)	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	Batch
Tetrachloroethene	ND (0.0040)	12	1	11/10/10 15:14	CTK0078	CK01013
Tetrahydrofuran	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Toluene	ND (0.0040)	190	1	11/10/10 15:14	CTK0078	CK01013
trans-1,2-Dichloroethene	ND (0.0040)	1100	1	11/10/10 15:14	CTK0078	CK01013
trans-1,3-Dichloropropene	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Trichloroethene	ND (0.0040)	13	1	11/10/10 15:14	CTK0078	CK01013
Trichlorofluoromethane	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Vinyl Acetate	ND (0.0040)		1	11/10/10 15:14	CTK0078	CK01013
Vinyl Chloride	ND (0.0081)	0.02	1	11/10/10 15:14	CTK0078	CK01013
Xylene O	ND (0.0040)	110	1	11/10/10 15:14	CTK0078	CK01013
Xylene P,M	ND (0.0081)	110	1	11/10/10 15:14	CTK0078	CK01013
Xylenes (Total)	ND (0.0121)	110	1	11/10/10 15:14		[CALC]

	%Recovery	Quaimer	Linus
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	94 %		70-130
Surrogate: Dibromofluoromethane	94 %		70-130
Surragate: Toluene-d8	97 %		70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94 Initial Volume: 19.8 Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: ML

Prepared: 11/10/10 17:00

8100M Total Petroleum Hydrocarbons

			RI - RES D	EC		
Analyte Total Petroleum Hydrocarbons	Results (MRL) ND (40.3)		<u>Limit</u> 500	<u>DF</u>	Analyzed Sequence 11/10/10 20:37 CTK008	
	%Recovery	Qualifier	Limits			
Surrogate: O-Terphenyl	<i>77</i> %		40-140			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94 Initial Volume: 15.5 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

RI	-	RI	ZS.	DEC
	Y	:_	-:4	DE

Analyte	Results (MRL)	Limit	DF	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.343)	0.8	1	11/11/10 13:11	CTK0084	CK01023
1,2,4-Trichlorobenzene	ND (0.343)	96	1	11/11/10 13:11	CTK0084	CK01023
1,2-Dichlorobenzene	ND (0.343)	510	1	11/11/10 13:11	CTK0084	CK01023
1,3-Dichlorobenzene	ND (0.343)	430	1	11/11/10 13:11	CTK0084	CK01023
1,4-Dichlorobenzene	ND (0.343)	27	1	11/11/10 13:11	CTK0084	CK01023
2,3,4,6-Tetrachlorophenol	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023
2,4,5-Trichlorophenol	ND (0.343)	330	1	11/11/10 13:11	CTK0084	CK01023
2,4,6-Trichlorophenol	ND (0.343)	58	1	11/11/10 13:11	CTK0084	CK01023
2,4-Dichlorophenol	ND (0.343)	30	1	11/11/10 13:11	CTK0084	CK01023
2,4-Dimethylphenol	ND (0.343)	1400	1	11/11/10 13:11	CTK0084	CK01023
2,4-Dinitrophenol	ND (1.72)	160	1	11/11/10 13:11	CTK0084	CK01023
2,4-Dinitrotoluene	ND (0.343)	0.9	1	11/11/10 13:11	CTK0084	CK01023
2,6-Dinitrotoluene	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
2-Chloronaphthalene	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
2-Chlorophenol	ND (0.343)	50	1	11/11/10 13:11	CTK0084	CK01023
2-Methylnaphthalene	ND (0.343)	123	1	11/11/10 13:11	CTK0084	CK01023
2-Methylphenol	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
2-Nitroaniline	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
2-Nitrophenol	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
3,3'-Dichlorobenzidine	ND (0.687)	1.4	1	11/11/10 13:11	CTK0084	CK01023
3+4-Methylphenol	ND (0.687)		1	11/11/10 13:11	CTK0084	CK01023
3-Nitroaniline	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
4,6-Dinitro-2-Methylphenol	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023
4-Bromophenyl-phenylether	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
4-Chloro-3-Methylphenol	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
4-Chloroaniline	ND (0.687)	310	i	11/11/10 13:11	CTK0084	CK01023
4-Chloro-phenyl-phenyl ether	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
4-Nitroaniline	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
4-Nitrophenol	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023
Acenaphthene	ND (0.343)	43	1	11/11/10 13:11	CTK0084	CK01023
Acenaphthylene	ND (0.343)	23	1	11/11/10 13:11	CTK0084	CK01023



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: 94
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3546

Indeno(1,2,3-cd)Pyrene

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

		RI - RES D	EC			
Analyte Acetophenone	Results (MRL) ND (0.687)	<u>Limit</u>	<u>DF</u>	Analyzed 11/11/10 13:11	Sequence CTK0084	Batch CK01023
Aniline	ND (0.687)		1	11/11/10 13:11	CTK0084	CK01023
Anthracene	ND (0.343)	35	1	11/11/10 13:11	CTK0084	CK01023
Azobenzene	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Benzo(a)anthracene	ND (0.343)	0.9	1	11/11/10 13:11	CTK0084	CK01023
Benzo(a)pyrene	ND (0.172)	0.4	1	11/11/10 13:11	CTK0084	CK01023
Benzo(b)fluoranthene	ND (0.343)	0.9	1	11/11/10 13:11	CTK0084	CK01023
Benzo(g,h,i)perylene	ND (0.343)	8.0	1	11/11/10 13:11	CTK0084	CK01023
Benzo(k)fluoranthene	ND (0.343)	0.9	1	11/11/10 13:11	CTK0084	CK01023
Benzoic Acid	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023
Benzyl Alcohol	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
bis(2-Chloroethoxy)methane	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
bis(2-Chloroethyl)ether	ND (0.343)	0.6	1	11/11/10 13:11	CTK0084	CK01023
bis(2-chloroisopropyl)Ether	ND (0.343)	9.1	1	11/11/10 13:11	CTK0084	CK01023
bis(2-Ethylhexyl)phthalate	ND (0.343)	46	1	11/11/10 13:11	CTK0084	CK01023
Butylbenzylphthalate	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Carbazole	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Chrysene	ND (0.172)	0.4	1	11/11/10 13:11	CTK0084	CK01023
Dibenzo(a,h)Anthracene	ND (0.172)	0.4	1	11/11/10 13:11	CTK0084	CK01023
Dibenzofuran	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Diethylphthalate	ND (0.343)	340	1	11/11/10 13:11	CTK0084	CK01023
Dimethylphthalate	ND (0.343)	1900	1	11/11/10 13:11	CTK0084	CK01023
Di-n-butylphthalate	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Di-n-octylphthalate	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Fluoranthene	ND (0.343)	20	1	11/11/10 13:11	CTK0084	CK01023
Fluorene	ND (0.343)	28	1	11/11/10 13:11	CTK0084	CK01023
Hexachlorobenzene	ND (0.172)	0.4	1	11/11/10 13:11	CTK0084	CK01023
Hexachlorobutadiene	ND (0.343)	8.2	1	11/11/10 13:11	CTK0084	CK01023
Hexachlorocyclopentadiene	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023
Hexachloroethane	ND (0.343)	46	1	11/11/10 13:11	CTK0084	CK01023

ND (0.343)

11/11/10 13:11 CTK0084

0.9

CK01023



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab01

Date Sampled: 11/10/10 09:00

Percent Solids: Initial Volume: 15.5 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

RI-	RES	DEC
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Analyte Isophorone	Results (MRL) ND (0.343)	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 11/11/10 13:11	Sequence CTK0084	Batch CK01023
Naphthalene	ND (0.343)	54	1	11/11/10 13:11	CTK0084	CK01023
Nitrobenzene	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
N-Nitrosodimethylamine	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
N-Nitroso-Di-n-Propylamine	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
N-nitrosodiphenylamine	ND (0.343)		1	11/11/10 13:11	CTK0084	CK01023
Pentachlorophenol	ND (1.72)	5.3	1	11/11/10 13:11	CTK0084	CK01023
Phenanthrene	ND (0.343)	40	1	11/11/10 13:11	CTK0084	CK01023
Phenol	ND (0.343)	6000	1	11/11/10 13:11	CTK0084	CK01023
Pyrene	ND (0.343)	13	1	11/11/10 13:11	CTK0084	CK01023
Pyridine	ND (1.72)		1	11/11/10 13:11	CTK0084	CK01023

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	66 %		30-130
Surrogate: 2,4,6-Tribromophenol	77 %		30-130
Surrogate: 2-Chlorophenol-d4	61 %		30-130
Surrogate: 2-Fluorobiphenyl	66 %		30-130
Surrogate: 2-Fluorophenol	61 %		30-130
Surrogate: Nitrobenzene-dS	64 %		30-130
Surrogate: Phenol-d6	63 %		30-130
Surrogate: p-Terphenyl-d14	91 %		30-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01

Percent Solids: 84

Date Sampled: 11/10/10 09:00

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

Analyte Antimony	Results (MRL) ND (5.5)	Method 6010B	Limit 10	DF	Analyst SVD	Analyzed 11/10/10 23:05	<u>I/V</u> 2.15	F/V 100	Batch CK01016
Arsenic	ND (2.8)	6010B	7	1	SVD	11/10/10 23:05		100	CK01016
Beryllium	0.32 (0.12)	6010B	0.4	1	SVD	11/10/10 23:05	2.15	100	CK01016
Cadmium	ND (0.56)	6010B	39	1	SVD	11/10/10 23:05	2.15	100	CK01016
Chromium	8.5 (1.1)	6010B	1400	1	SVD	11/10/10 23:05	2.15	100	CK01016
Copper	6.2 (2.8)	6010B	3100	I	SVD	11/10/10 23:05	2.15	100	CK01016
Lead	14.2 (5.5)	6010B	150	1	SVD	11/10/10 23:05	2.15	100	CK01016
Mercury	0.045 (0.038)	7471A	23	1	JP	11/10/10 20:23	0.62	40	CK01017
Nickel	5.8 (2.8)	6010B	1000	1	SVD	11/10/10 23:05	2.15	100	CK01016
Selenium	ND (5.5)	6010B	390	1	SVD	11/10/10 23:05	2.15	100	CK01016
Silver	ND (0.56)	6010B	200	1	SVD	11/10/10 23:05	2.15	100	CK01016
Thallium	ND (1.37)	7841	5.5	5	SVD	11/11/10 14:51	2.15	100	CK01016
Zinc	18.6 (2.8)	6010B	6000	1	SVD	11/10/10 23:05	2.15	100	CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84 Initial Volume: 11.4 Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI - RES DEC

Analyte 1,1,1,2-Tetrachloroethane	Results (MRL) ND (0.0026)	<u>Limit</u> 2.2	<u>DF</u>	<u>Analyzed</u> 11/10/10 15:41	Sequence CTK0078	Batch CK01013
1,1,1-Trichloroethane	ND (0.0026)	540	I	11/10/10 15:41	CTK0078	CK01013
1,1,2,2-Tetrachloroethane	ND (0.0026)	1.3	1	11/10/10 15:41	CTK0078	CK01013
1,1,2-Trichloroethane	ND (0.0026)	3.6	1	11/10/10 15:41	CTK0078	CK01013
1,1-Dichloroethane	ND (0.0026)	920	1	11/10/10 15:41	CTK0078	CK01013
1,1-Dichloroethene	ND (0.0026)	0.2	1	11/10/10 15:41	CTK0078	CK01013
1,1-Dichloropropene	ND (0.0026)		I	11/10/10 15:41	CTK0078	CK01013
1,2,3-Trichlorobenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
1,2,3-Trichloropropane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
1,2,4-Trichlorobenzene	ND (0.0026)	96	1	11/10/10 15:41	CTK0078	CK01013
1,2,4-Trimethylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
1,2-Dibromo-3-Chloropropane	ND (0.0026)	0.5	1	11/10/10 15:41	CTK0078	CK01013
1,2-Dibromoethane	ND (0.0026)	0.01	1	11/10/10 15:41	CTK0078	CK01013
1,2-Dichlorobenzene	ND (0.0026)	510	1	11/10/10 15:41	CTK0078	CK01013
1,2-Dichloroethane	ND (0.0026)	0.9	1	11/10/10 15:41	CTK0078	CK01013
1,2-Dichloropropane	ND (0.0026)	1.9	1	11/10/10 15:41	CTK0078	CK01013
1,3,5-Trimethylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
1,3-Dichlorobenzene	ND (0.0026)	430	1	11/10/10 15:41	CTK0078	CK01013
1,3-Dichloropropane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
1,4-Dichlorobenzene	ND (0.0026)	27	1	11/10/10 15:41	CTK0078	CK01013
1,4-Dioxane	ND (0.0522)		1	11/10/10 15:41	CTK0078	CK01013
1-Chlorohexane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
2,2-Dichloropropane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
2-Butanone	ND (0.0261)	10000	1	11/10/10 15:41	CTK0078	CK01013
2-Chlorotoluene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
2-Hexanone	ND (0.0261)		1	11/10/10 15:41	CTK0078	CK01013
4-Chlorotoluene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
4-Isopropyltoluene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
4-Methyl-2-Pentanone	ND (0.0261)	1200	1	11/10/10 15:41	CTK0078	CK01013
Acetone	0.0311 (0.0261)	7800	1	11/10/10 15:41	CTK0078	CK01013
Benzene	ND (0.0026)	2.5	1	11/10/10 15:41	CTK0078	CK01013



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BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84
Initial Volume: 11.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI -	RES	DEC
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Analyte Bromobenzene	Results (MRL) ND (0.0026)	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u> 11/10/10 15:41	Sequence CTK0078	Batch CK01013
Bromochloromethane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Bromodichloromethane	ND (0.0026)	10	1	11/10/10 15:41	CTK0078	CK01013
Bromoform	ND (0.0026)	81	1	11/10/10 15:41	CTK0078	CK01013
Bromomethane	ND (0.0052)	0.8	1	11/10/10 15:41	CTK0078	CK01013
Carbon Disulfide	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Carbon Tetrachloride	ND (0.0026)	1.5	1	11/10/10 15:41	CTK0078	CK01013
Chlorobenzene	ND (0.0026)	210	1	11/10/10 15:41	CTK0078	CK01013
Chloroethane	ND (0.0052)		1	11/10/10 15:41	CTK0078	CK01013
Chloroform	ND (0.0026)	1.2	1	11/10/10 15:41	CTK0078	CK01013
Chloromethane	ND (0.0052)		1	11/10/10 15:41	CTK0078	CK01013
cis-1,2-Dichloroethene	ND (0.0026)	630	1	11/10/10 15:41	CTK0078	CK01013
cis-1,3-Dichloropropene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Dibromochloromethane	ND (0.0026)	7.6	1	11/10/10 15:41	CTK0078	CK01013
Dibromomethane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Dichlorodifluoromethane	ND (0.0052)		1	11/10/10 15:41	CTK0078	CK01013
Diethyl Ether	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Di-isopropyl ether	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Ethyl tertiary-butyl ether	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Ethylbenzene	ND (0.0026)	71	1	11/10/10 15:41	CTK0078	CK01013
Hexachlorobutadiene	ND (0.0026)	8.2	1	11/10/10 15:41	CTK0078	CK01013
Isopropylbenzene	ND (0.0026)	27	1	11/10/10 15:41	CTK0078	CK01013
Methyl tert-Butyl Ether	ND (0.0026)	390	1	11/10/10 15:41	CTK0078	CK01013
Methylene Chloride	ND (0.0131)	45	1	11/10/10 15:41	CTK0078	CK01013
Naphthalene	ND (0.0026)	54	1	11/10/10 15:41	CTK0078	CK01013
n-Butylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
n-Propylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
sec-Butylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Styrene	ND (0.0026)	13	1	11/10/10 15:41	CTK0078	CK01013
tert-Butylbenzene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Tertiary-amyl methyl ether	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84
Initial Volume: 11.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

RI - RES DEC

Analyte	Results (MRL)	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	Sequence	Batch
Tetrachloroethene	ND (0.0026)	12	1	11/10/10 15:41	CTK0078	CK01013
Tetrahydrofuran	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Toluene	ND (0.0026)	190	1	11/10/10 15:41	CTK0078	CK01013
trans-1,2-Dichloroethene	ND (0.0026)	1100	1	11/10/10 15:41	CTK0078	CK01013
trans-1,3-Dichloropropene	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Trichloroethene	ND (0.0026)	13	1	11/10/10 15:41	CTK0078	CK01013
Trichlorofluoromethane	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Vinyl Acetate	ND (0.0026)		1	11/10/10 15:41	CTK0078	CK01013
Vinyl Chloride	ND (0.0052)	0.02	I	11/10/10 15:41	CTK0078	CK01013
Xylene O	ND (0.0026)	110	1	11/10/10 15:41	CTK0078	CK01013
Xylene P,M	ND (0.0052)	110	1	11/10/10 15:41	CTK0078	CK01013
Xylenes (Total)	ND (0.0078)	110	1	11/10/10 15:41		[CALC]
	<u> </u>					

	TOKECOVEY	Quaimer	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	84 %		70-130
Surrogate: Dibramofluoromethane	96 %		70-130
Surrogate: Toluene-d8	100 %		70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 8-Initial Volume: 20.5 Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: ML

Prepared: 11/10/10 17:00

8100M Total Petroleum Hydrocarbons

		RI - RES DEC								
Analyte Total Petroleum Hydrocarbons	Results (MRL) ND (43.6)		<u>Limit</u> 500	<u>DF</u>	Analyzed 11/10/10 22:56	Sequence CTK0086	Batch CK01024			
	%Recov	ery Qualifier	Limits		-		_			
Surrogate: O-Terphenyl	81 9	16	40-140							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84 Initial Volume: 14.7 Final Volume: 0.5 Extraction Method: 3546 ESS Laboratory Work Order: 1011142
ESS Laboratory Sample ID: 1011142-02
Sample Matrix: Soil

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

		RI - RES D	EC			
<u>Analyte</u>	Results (MRL)	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
1,1-Biphenyi	ND (0.405)	0.8	ī	11/11/10 14:52	CTK0084	CK01023
1,2,4-Trichlorobenzene	ND (0.405)	96	1	11/11/10 14:52	CTK0084	CK01023
1,2-Dichlorobenzene	ND (0.405)	510	1	11/11/10 14:52	CTK0084	CK01023
1,3-Dichlorobenzene	ND (0.405)	430	1	11/11/10 14:52	CTK0084	CK01023
1,4-Dichlorobenzene	ND (0.405)	27	1	11/11/10 14:52	CTK0084	CK01023
2,3,4,6-Tetrachlorophenol	ND (2.03)		1	11/11/10 14:52	CTK0084	CK01023
2,4,5-Trichlorophenol	ND (0.405)	330	1	11/11/10 14:52	CTK0084	CK01023
2,4,6-Trichlorophenol	ND (0.405)	58	1	11/11/10 14:52	CTK0084	CK01023
2,4-Dichlorophenol	ND (0.405)	30	1	11/11/10 14:52	CTK0084	CK01023
2,4-Dimethylphenol	ND (0.405)	1400	I	11/11/10 14:52	CTK0084	CK01023
2,4-Dinitrophenol	ND (2.03)	160	1	11/11/10 14:52	CTK0084	CK01023
2,4-Dinitrotoluene	ND (0.405)	0.9	1	11/11/10 14:52	CTK0084	CK01023
2,6-Dinitrotoluene	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
2-Chloronaphthalene	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
2-Chlorophenol	ND (0.405)	50	1	11/11/10 14:52	CTK0084	CK01023
2-Methylnaphthalene	ND (0.405)	123	1	11/11/10 14:52	CTK0084	CK01023
2-Methylphenol	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
2-Nitroaniline	ND (0.405)		1	11/11/10 14:52	CTK00B4	CK01023
2-Nitrophenol	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
3,3'-Dichlorobenzidine	ND (0.810)	1.4	1	11/11/10 14:52	CTK0084	CK01023
3+4-Methylphenol	ND (0.810)		1	11/11/10 14:52	CTK0084	CK01023
3-Nitroaniline	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
4,6-Dinitro-2-Methylphenol	ND (2.03)		1	11/11/10 14:52	CTK0084	CK01023
4-Bromophenyl-phenylether	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
4-Chloro-3-Methylphenol	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
4-Chloroaniline	ND (0.810)	310	1	11/11/10 14:52	CTK0084	CK01023
4-Chloro-phenyl-phenyl ether	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
4-Nitroaniline	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
4-Nitrophenol	ND (2.03)		I	11/11/10 14:52	CTK0084	CK01023
Acenaphthene	ND (0.405)	43	1	11/11/10 14:52	CTK0084	CK01023
Acenaphthylene	ND (0.405)	23	1	11/11/10 14:52	CTK0084	CK01023
	• •					



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84 Initial Volume: 14.7 Final Volume: 0.5

Indeno(1,2,3-cd)Pyrene

Extraction Method: 3546

ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

		RI - RES DI	EC			
Analyte	Results (MRL)	<u>Limit</u>	<u>DF</u>	Analyzed	Sequence	Batch
Acetophenone	ND (0.810)		1	11/11/10 14:52	CTK0084	CK01023
Aniline	ND (0.810)		1	11/11/10 14:52	CTK0084	CK01023
Anthracene	ND (0.405)	35	1	11/11/10 14:52	CTK0084	CK01023
Azobenzene	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Benzo(a)anthracene	ND (0.405)	0.9	1	11/11/10 14:52	CTK0084	CK01023
Benzo(a)pyrene	ND (0.203)	0.4	1	11/11/10 14:52	CTK0084	CK01023
Benzo(b)fluoranthene	ND (0.405)	0.9	1	11/11/10 14:52	CTK00B4	CK01023
Benzo(g,h,i)perylene	ND (0.405)	8.0	1	11/11/10 14:52	CTK0084	CK01023
Benzo(k)fluoranthene	ND (0.405)	0.9	1	11/11/10 14:52	CTK0084	CK01023
Benzoic Acid	ND (2.03)		1	11/11/10 14:52	CTK0084	CK01023
Benzyi Alcohol	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
bis(2-Chloroethoxy)methane	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
bis(2-Chloroethyl)ether	ND (0.405)	0.6	1	11/11/10 14:52	CTK0084	CK01023
bis(2-chloroisopropyl)Ether	ND (0.405)	9.1	1	11/11/10 14:52	CTK0084	CK01023
bis(2-Ethylhexyl)phthalate	ND (0.405)	46	1	11/11/10 14:52	CTK0084	CK01023
Butylbenzylphthalate	ND (0.405)		i	11/11/10 14:52	CTK0084	CK01023
Carbazole	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Chrysene	ND (0.203)	0.4	1	11/11/10 14:52	CTK0084	CK01023
Dibenzo(a,h)Anthracene	ND (0.203)	0.4	1	11/11/10 14:52	CTK0084	CK01023
Dibenzofuran	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Diethylphthalate	ND (0.405)	340	1	11/11/10 14:52	CTK0084	CK01023
Dimethylphthalate	ND (0.405)	1900	1	11/11/10 14:52	CTK0084	CK01023
Di-n-butylphthalate	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Di-n-octylphthalate	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Fluoranthene	ND (0.405)	20	1	11/11/10 14:52	CTK0084	CK01023
Fluorene	ND (0.405)	28	1	11/11/10 14:52	CTK0084	CK01023
Hexachlorobenzene	ND (0.203)	0.4	1	11/11/10 14:52	CTK0084	CK01023
Hexachlorobutadiene	ND (0.405)	8.2	1	11/11/10 14:52	CTK0084	CK01023
Hexachlorocyclopentadiene	ND (2.03)		1	11/11/10 14:52	CTK0084	CK01023
Hexachloroethane	ND (0.405)	46	1	11/11/10 14:52	CTK0084	CK01023

ND (0.405)

11/11/10 14:52 CTK0084 CK01023

0.9



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS01 Date Sampled: 11/10/10 09:00

Percent Solids: 84 Initial Volume: 14.7 Final Volume: 0.5 Extraction Method: 3546 ESS Laboratory Work Order: 1011142 ESS Laboratory Sample ID: 1011142-02

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 11/10/10 18:00

8270C Semi-Volatile Organic Compounds

	RI - RES DEC

Analyte Isophorone	Results (MRL) ND (0.405)	<u>Limit</u>	$\frac{\mathbf{DF}}{1}$	Analyzed 11/11/10 14:52	Sequence CTK0084	Batch CK01023
Naphthalene	ND (0.405)	54	1	11/11/10 14:52	CTK0084	CK01023
Nitrobenzene	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
N-Nitrosodimethylamine	ND (0.405)		1	11/11/10 14:52	CTK.0084	CK01023
N-Nitroso-Di-n-Propylamine	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
N-nitrosodiphenylamine	ND (0.405)		1	11/11/10 14:52	CTK0084	CK01023
Pentachlorophenol	ND (2.03)	5.3	1	11/11/10 14:52	CTK0084	CK01023
Phenanthrene	ND (0.405)	40	1	11/11/10 14:52	CTK0084	CK01023
Phenol	ND (0.405)	6000	1	11/11/10 14:52	CTK0084	CK01023
Pyrene	ND (0.405)	13	1	11/11/10 14:52	CTK0084	CK01023
Pyridine	ND (2.03)		1	11/11/10 14:52	CTK0084	CK01023

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzane-d4	81 %		30-130
Surrogate: 2,4,6-Tribromophenal	91 %		30-130
Surrogate: 2-Chlorophenal-d4	78 %		30-130
Surrogate: 2-Fluorobiphenyl	<i>79</i> %		30-130
Surrogate: 2-Fluorophenal	78 %		30-130
Surrogate: Nitrobenzene-d5	83 %		30-130
Surrogate: Phenol-d6	82 %		30-130
Surrogate: p-Terphenyl-d14	86 %		30-130



The Microbiology Division of Thielsch Engineering, Inc.



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

%REC

Quality Control Data

Splke

Source

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Umit	Qualifie
		3050B/	6000/7000 T	otal Meta	als					
t ch CK01016 - 30501	В									
ank	-									
timony	ND	5.0	mg/kg wet							
senic .	ND	2.5	mg/kg wet							
ryllium	ND	0.10	mg/kg wet							
dmlum	ND	0.50	mg/kg wet							
romium	ND	1.0	mg/kg wet							
pper	ND	2.5	mg/kg wet							
ad	ND	5.0	mg/kg wet							
dkel	ND	2.5	mg/kg wet							
lenium	ND	5.0	mg/kg wet							
ve r	ND	0.50	mg/kg wet							
muilte	ND	0.25	mg/kg wet							
nc	ND	2.5	mg/kg wet							
'S										
timony	90.9	17.2	mg/kg wet	121.0		75	50-219			
senic	98.0	8.6	mg/kg wet	109.0		90	80-120			
ryllium	81.9	0.36	mg/kg wet	92.10		89	80-120			
dmium	102	1.73	mg/kg wet	110.0		93	80-120			
romium	86.0	3.4	mg/kg wet	93.40		92	80-120			
pp er	69.3	8.6	mg/kg wet	74.70		93	80-120			
ad	150	17.2	mg/kg wet	152.0		99	80-120			
tkel	105	8,6	mg/kg wet	109.0		96	80-120			
lenium	201	17.2	mg/kg wet	207.0		97	80-120			
ver	49.0	1.73	mg/kg wet	51.90		94	80-120			
nallium	167	42.7	mg/kg wet	171.0		98	80-120			
nc	259	8.6	ıπg/kg wet	299.0		86	80-120			
'S Dup										
itmony	101	17.6	mg/kg wet	121.0		83	50-219	11	20	
senic	101	8.8	mg/kg wet	109.0		93	80-120	3	20	
ryllium	84.2	0.37	mg/kg wet	92.10		91	80-120	3	20	
dmlum	105	1.76	mg/kg wet	110.0		95	80-120	2	20	
mulman	87.4	3.5	mg/kg wet	93.40		94	80-120	2	20	
pper	70.4	8.8	mg/kg wet	74.70		94	80-120	2	20	
ad	155	17.6	mg/kg wet	152.0		102	80-120	3	20	
kel	106	6.8	mg/kg wet	109.0		98	80-120	2	20	
denium	209	17.6	mg/kg wet	207.0		101	80-120	4	20	
ver	49.3	1.76	mg/kg wet	51.90		95	80-120	0.6	20	
nallium	178	43.4	mg/kg wet	171.0		104	80-120	6	20	
nc .	264	8.8	mg/kg wet	299.0		88	80-120	2	20	
plicate	Sourca: 1011142-02									
itimony	ND	5.9	mg/kg dry		ND				35	
senic	0.563	2.9	mg/kg dry		ND				35	
ryllium	0.313	0.12	mg/kg dry		0.316			0.9	35	
dmlum	ND	0.59	mg/kg dry		ND				35	
romlum	8.54	1.2	mg/kg dry		8.48			0.8	35	

Dependability

Quality

Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Umlt	Qualifier
			3050B/	6000/7000 T	otal Meta	als					<u> </u>
atch CK01016 - 30508	1									_	
obber		6.33	2.9	mg/kg dry		6.19			2	35	
ead		14.5	5.9	mg/kg dry		14.2			2	35	
lickel		6.07	2.9	mg/kg dry		5.76			5	35	
elenium		2.67	5.9	mg/kg dry		3.65			31	35	
ilver		ND	D. 59	mg/kg dry		ND				35	
hallium		ND	1.45	mg/kg dry		ND				35	
inc		19.5	2.9	mg/kg dry		18,6			5	35	
latrix Spika	Source: 1011142-02										
ntimony		9.59	5.3	mg/kg dry	26.57	ND	36	75-125			M-
Vrgenic		21.5	2.7	mg/kg drγ	26.57	ND	81	75-125			
teryllium		2.64	0.11	mg/kg dry	2.657	0.316	68	75-125			
admium		11.1	0.53	mg/kg dry	13.29	ND	84	75-125			
Chromium		32.1	1.1	mg/kg dry	26.57	8.48	89	75-125			
Copper .		30.4	2.7	mg/kg dry	26.57	6.19	91	75-125			
ead		36.4	5.3	mg/kg dry	26.57	14.2	84	75-125			
tickel		29.3	2.7	mg/kg dry	26.57	5.76	89	75-125			
ielenium		46.7	5.3	mg/kg dry	53.15	3.65	81	75-125			
Silver		11.9	0.53	mg/kg dry	13.29	ND	90	75-125			
hallum		23.5	5.26	mg/kg dry	26.57	ND	88	75-125			
linc		42.4	2.7	mg/kg dry	26.57	18.6	89	75-125			
Batich CK01017 - 7471/											
Blank											
Mercury		ND	0.033	mg/kg wet							
LCS											
Mercury		19.4	1.48	mg/kg wet	16.30		119	80-120			

LCS Dup		40.5		Dec	16.30		130	90-130	0.5	20	
Mercury		19.5	1.57	mg/kg wet	16.30		120	80-120	0.5	20	
Duplicata	Source: 1011142-02										
Mercury		0.0427	0.033	mg/kg dry		0.0453			6	35	
Matrix Spike	Source: 1011142-02										
Mercury		0.236	0.035	mg/kg dry	0.2132	0.0453	90	75-125			
Matrix Spike Dup	Source: 1011142-02										
Mercury		0.225	0.031	mg/kg dry	0.1855	0.0453	97	75-125	5	35	
·		5035/8	260B Volat	ile Organic C	ompoun	ds / Low I	Level				
Batch CK01013 - 5035											
Blank		NG		#							
1,1,1,2-Tetrachioroethane	:	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane		ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	B.	ND	0.0050	mg/kg wet							
1,1,2-Trichlomethane		ND	0.0050	mg/kg wet							
1,1-Dichloroethane		ND	0.0050	mg/kg wet							
		ND	0.0050	mg/kg wet							



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

				_			_			
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifler

5035/8260B Volatile Organic Compound	1s /	Low	Level
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Batch CK01013 - 5035			
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichioropropane	ND	0.0050	mg/kg wet.
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg web
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0,100	mg/kg wet
1-Chlorohexane	ND	0.0050	mg/kg wet
2,2-Dichloropropane	ИD	0.0050	mg/kg wet.
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorototuene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chiorotoluene	ND	0.0050	mg/kg wet
4-Isopropyttoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet:
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet.
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Cerbon Disuffide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chioroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
ds-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cls-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0050	ng/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-Isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet



ND

ND

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CK01013 - 5035 Hexachlorobutadiene

1,1,2-Trichloroethane

1,1-Dichloroethane

1.1-Dichlorpethene

1,1-Dichioropropene

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1.2-Dibromoethane

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1.3-Dichlorobenzene

1,3,5-Trimethylbenzene

1,2-Dibromo-3-Chloropropane

Isopropylbenzene

ESS Laboratory Work Order: 1011142 Client Project ID: Lincoln Lace

0.0050

0.0050

Quality Control Data

			_							
				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Umlt	Qualifier

5035/8260B Volatile Organic Compounds / Low Level

mg/kg wet

mg/kg wet

Methyl test-Butyl Ether	ND	0.0050	mg/kg wet				
Methylene Chloride	ND	0.0250	mg/kg wet				
Naphthalene	ND	0.0050	mg/kg wet				
n-Butylbenzene	ND	0.0050	mg/kg wet				
n-Propylberizene	ND	0.0050	mg/kg wet				
sec-Butylbenzene	ND	0.0050	mg/kg wet				
Styrene	ND	0.0050	mg/kg wet				
tert-Butylbenzene	ND	0.0050	mg/kg wet				
Tertiary-arryl methyl ether	ND	0.0050	mg/kg wet				
Tetrachloroethene	ND	0.0050	mg/kg wet				
Tetrahydrofuran	ND	0.0050	mg/kg wet				
Toluene	ND	0.0050	mg/kg wet				
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet				
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet				
Trichloroethene	ND	0.0050	mg/kg wet				
Trichlorofluoromethane	ND	0.0050	mg/kg wet				
Vinyl Acetate	ND	0.0050	mg/kg wet				
Vinyl Chloride	ND	0.0100	mg/kg wet				
Xylene O	ND	0.0050	mg/kg wet				
Xylene P,M	ND	0.0100	mg/kg wet				
Surrogate: 1,2-Dichloroethane-d4	0.0472		mg/kg wet	0.05000	94	70-130	
Surrogate: 4-Bromofluorobenzene	0.0456		mg/kg wet	0.05000	91	70-130	
Surragate: Dibromoftuuromethane	0.0471		mg/kg wet	0.05000	94	70-130	
Surrogate: Toluene-d8	0.0469		mg/kg wet	0.05000	94	70-130	
LCS							
1,1,1,2-Tetrachloroethane	0.0479	0.0050	mg/kg wet	0.05000	96	70-130	
1,1,1-Trichloroethane	0.0478	0.0050	mg/kg wet	0.05000	96	70-130	
1,1,2,2-Tetrachloroethane	0.0458	0.0050	mg/kg wet	0.05000	92	70-130	

mg/kg wet

mg/kg wet;

mg/kg wet

mo/ka wet

ma/ka wet

mg/kg wet

mg/kg wet

mg/kg wet

mg/kg wet

mg/kg wet

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mg/kg wet

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0.05000

0.05000

0.05000

0.0440

0.0438

0.0483

0.0474

0.0467

0.0464

0.0452

0.0478

0.0435

0.0469

0.0457

0.0439

0.0435

0.0477

0.0472

0.0050

0.0050

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70-130 70-130

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70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

5035/8260B Volatile Organic Compounds / Low Level									
atch CK01013 - 5035									
3-Dichloropropane	0.0475	0.0050	mg/kg wet	0.05000	95	70-130			
,4-Dichlorobenzene	0.0456	0.0050	mg/kg wet	0.05000	91	70-130			
,4-Dioxane	0.933	0.100	mg/kg wet	1.000	93	70-130			
-Chlorohexane	0.0515	0.0050	mg/kg wet	0.05000	103	70-130			
,2-Dichloropropane	0.0496	0.0050	mg/kg wet	0.05000	99	70-130			
-Butanone	0.229	0.0500	mg/kg wet	0.2500	92	70-130			
-Chlorotoluene	0.0471	0.0050	mg/kg wet	0.05000	94	70-130			
Hexanone	0.245	0.0500	mg/kg wet	0.2500	98	70-130			
-Chlorotoluene	0.0467	0.0050	mg/kg wet	0.05000	93	70-130			
-I sopropyltoluene	0.0476	0.0050	mg/kg wet	0.05000	95	70-130			
Methyl-2-Pentanone	0.241	0.0500	ma/kg wet	0.2500	96	70-130			
tetone	0.244	0.0500	mg/kg wet	0.2500	98	70-130			
enzene	0.0458	0.0050	mg/kg wet	0.05000	92	70-130			
romobenzene	0.0475	0.0050	mg/kg wet	0.05000	95	70-130			
romochloromethane	0.0434	0.0050	mg/kg wet	0.05000	87	70-130			
romodichloromethane	0.0498	0.0050	mg/kg wet	0.05000	100	70-130			
omoform	0.0498	0.0050	mg/kg wet	0.05000	100	70-130			
romomethane	0.0461	0.0100	mg/kg wet	0.05000	92	70-130			
arbon Disuffide	8840.0	0.0050	mg/kg wet	0.05000	98	70-130			
arbon Tetrachloride	0.0483	0.0050	mg/kg wet	0.05000	97	70-130			
nlorobenzene	0.0464	0.0050	mg/kg wet	0.05000	93	70-130			
nloroethane	0.0450	0.0100	mg/kg wet	0.05000	90	70-130			
nloroform	0.0439	0.0050	mg/kg wet	0.05000	88	70-130			
hloromethane	0.0386	0.0100	mg/kg wet	0.05000	77	70-130			
s-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000	97	70-130			
s-1,3-Dichloropropene	0.0467	0.0050	mg/kg wet	0.05000	93	70-130			
Ibromochloromethane	0.0504	0.0050	mg/kg wet	0.05000	101	70-130			
ibromomethane	0.0436	0.0050	mg/kg wet	0.05000	87	70-130			
ichlorodifluoromethane	0.0417	0.0100	mg/kg wet	0.05000	83	70-130			
Hethyl Ether	0.0495	0.0050	mg/kg wet	0.05000	99	70-130			
i-Isopropyl ether	0.0463	0.0050	mg/kg wet	0.05000	93	70-130			
thyl tertiary-butyl ether	0.0451	0.0050	mg/kg wet	0.05000	90	70-130			
thylbenzene	0.0487	0.0050	mg/kg wet	0.05000	97	70-130			
iexachlorobutadiene	0.0470	0.0050	mg/kg wet	0.05000	94	70-130			
sopropylbenzene	0.0424	0.0050	mg/kg wet	0.05000	85	70-130			
ethyl tert-Butyl Ether	0.0490	0.0050	mg/kg wet	0.05000	98	70-130			
lethylene Chloride	0.0462	0.0250	mg/kg wet	0.05000	92	70-130			
aphthalene	0.0475	0.0050	mg/kg wet	0.05000	95	70-130			
Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000	100	70-130			
Propylbenzene	0.0505	0.0050	mg/kg west	0.05000	101	70-130			
sc-Butylbenzene	0.0493	0.0050	mg/kg wet	0.05000	99	70-130			
tyrene	0,0485	0.0050	mg/kg wet	0.05000	97	70-130			
rt-Butylbenzene	0.0479	0.0050	mg/kg wet	0.05000	96	70-130			
ertiary-amyl methyl ether	0.0494	0.0050	mg/kg wet	0.05000	99	70-130			
etrachloroethene	0.0453	0.0050	mg/kg wet	0.05000	91	70-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

	· · · · · · · · · · · · · · · · · · ·										1
				Spike	Source		%REC		RPD		l
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Umit	Qualifier	

5035/8260B Vol	atile Organic	Compounds /	Low Level
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Batch CK01013 - 5035									
Tetrahydrofuran	0.0523	0.0050	mg/kg wet	0.05000	105	70-130			
Toluene	0.0462	0.0050	mg/kg wet	0.05000	92	70-130			
trans-1,2-Dichioroethene	0.0438	0.0050	mg/kg wet	0.05000	88	70-130			
trans-1,3-Dichloropropene	0.0448	0.0050	mg/kg wet	0.05000	90	70-130			
Trichloroethene	0.0458	0.0050	mg/kg wet	0.05000	92	70-130			
Vinyl Acetate	0.0570	0.0050	mg/kg wet	0.05000	114	70-130			
Vinyl Chloride	0.0441	0.0100	mg/kg wet	0.05000	88	70-130			
Xylene O	0.0454	0.0050	mg/kg wet	0.05000	91	70-130			
Xylene P,M	0.0950	0.0100	mg/kg wet	0.1000	95	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0453		mg/kg wet	0.05000	91	70-130			
Surrogate: 4-Bromofluorobenzene	0.0473		mg/kg wet	0.05000	95	70-130			
Surrogate: Dibromofluoromethane	0.0471		mg/kg web	0.05000	94	70-130			
Surragate: Toluene-d8	0.0477		mg/kg wet	0.05000	95	70-130			
LCS Dup									
1,1,1,2-Tetrachloroethane	0.0476	0.0050	mg/kg wet	0.05000	95	70-130	0.6	25	
1,1,1-Trichloroethane	0.0469	0.0050	mg/kg wet	0.05000	94	70-130	2	25	
1,1,2,2-Tetrachloroethane	0.0465	0.0050	mg/kg wet	0.05000	93	70-130	2	25	
1,1,2-Trichloroethane	0.0450	0.0050	mg/kg wet	0.05000	90	70-130	2	25	
1,1-Dichloroethane	0.0437	0.0050	mg/kg wet	0.05000	67	70-130	0.4	25	
1,1-Dichloroethene	0.0428	0.0050	mg/kg wet	0.05000	86	70-130	12	25	
1,1-Dichloropropene	0.0467	0.0050	mg/kg wet	0.05000	93	70-130	1	25	
1,2,3-Trichlorobenzene	0.0458	0.0050	mg/kg wet	0.05000	92	70-130	2	25	
1,2,3-Trichloropropane	0.0563	0.0050	mg/kg wet	0.05000	113	70-130	19	25	
1,2,4-Trichlorobenzene	0.0444	0.0050	mg/kg wet	0.05000	89	70-130	2	25	
1,2,4-Trimethylbenzene	0.0472	0.0050	mg/kg wet	0.05000	94	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0441	0.0050	mg/kg wet	0.05000	88	70-130	1	25	
1,2-Dibromoethane	0.0473	0.0050	mg/kg wet	0.05000	95	70-130	0.8	25	
1,2-Dichlorobenzene	0.0461	0.0050	mg/kg wet	0.05000	92	70-130	0.8	25	
1,2-Dichloroethane	0.0452	0.0050	mg/kg wet	0.05000	90	70-130	3	25	
1,2-Dichloropropane	0.0444	0.0050	mg/kg wet	0.05000	89	70-130	2	25	
1,3,5-Trimethylbenzene	0.0478	0.0050	mg/kg wet	0.05000	96	70-130	0.2	25	
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000	94	70-130	0.7	25	
1,3-Dichloropropane	0.0467	0.0050	mg/kg wet	0.05000	93	70-130	2	25	
1,4-Dichlorobenzene	0.0454	0.0050	mg/kg wet	0.05000	91	70-130	0.6	25	
1,4-Dloxane	1.11	0.100	mg/kg wet	1.000	111	70-130	17	20	
1-Chlorohexane	0.0497	0.0050	mg/kg wet	0.05000	99	70-130	4	25	
2,2-Dichloropropane	0.0482	0.0050	mg/kg wet	0.05000	96	70-130	3	25	
2-Butanone	0.230	0.0500	mg/kg wet	0.2500	92	70-130	0.3	25	
2-Chiorotoluene	0.0478	0.0050	mg/kg wet	0.05000	96	70-130	1	25	
2-Heranone	0.255	0.0500	mg/kg wet	0.2500	102	70-130	4	25	
4-Chlorotoluene	0.0464	0.0050	mg/kg wet	0.05000	93	70-130	0.7	25	
4-I sopropy/toluene	0.0471	0.0050	mg/kg wet	0.05000	94	70-130	1	25	
4-Methyl-2-Pentanone	0.248	0.0500	mg/kg wet	0.2500	99	70-130	3	25	
Acetone	0.231	0.0500	mg/kg wet	0.2500	92	70-130	6	25	
Benzene	0.0456	0.0050	mg/kg wet	0.05000	91	70-130	0.4	25	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

				Splke	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifler

5035/8260B Volatile Organic Compounds / Low Level

	5055/6	5055/0200B Volidile Organic Compounds / Ebw Level							
Batch CK01013 - 5035									
Bromobenzene	0.0474	0.0050	mg/kg wet	0.05000	95	70-130	0.3	25	
Bromochloromethane	0 0446	0.0050	mg/kg wet	0.05000	89	70-130	3	25	
Bromodichloromethane	D.0487	0.0050	mg/kg wet	0.05000	97	70-130	2	25	
Bromoform	0.0490	0.0050	mg/kg wet	0.05000	98	70-130	2	25	
Bromomethane	0.0458	0.0100	mg/kg wet	0.05000	92	70-130	0.7	25	
Carbon Disuffide	0.0495	0.0050	mg/kg wet	0.05000	99	70-130	1	25	
Carbon Tetrachloride	0.0475	0.0050	mg/kg wet	0.05000	95	70-130	2	25	
Chlorobenzene	0.0463	0.0050	mg/kg wet	0.05000	93	70-130	0.4	25	
Chloroethane	0.0440	0.0100	mg/kg west	0.05000	88	70-130	2	25	
Chloroform	0.0435	0.0050	mg/kg wet	0.05000	87	70-130	1	25	
Chloromethane	0.0387	0.0100	mg/kg wet	0.05000	77	70-130	0.4	25	
ds-1,2-Dichloroethene	0.0485	0.0050	mg/kg wet	0.05000	97	70-130	0.3	25	
ds-1,3-Dichloropropene	0.0460	0.0050	mg/kg wet	0.05000	92	70-130	2	25	
Dibromochloromethane	0.0500	0.0050	mg/kg wet	0.05000	100	70-130	0.8	25	
Dibromomethane	0.0437	0.0050	mg/kg wet	0.05000	87	70-130	0.3	25	
Dichlorodifluoromethane	0.0419	0.0100	mg/kg wet	0.05000	84	70-130	0.6	25	
Diethyl Ether	0.0469	0.0050	mg/kg wet	0.05000	94	70-130	5	25	
DHsopropyl ether	0.0461	0.0050	mg/kg wet	0.05000	92	70-130	0.5	25	
Ethyl tertiary-butyl ether	0.0452	0.0050	ma/kg wet	0.05000	90	70-130	0.04	25	
Ethylbenzene	0.0479	0.0050	mg/kg wet	0.05000	96	70-130	2	25	
Hexachlorobutadiene	0.0460	0.0050	mg/kg wet	0.05000	92	70-130	2	25	
Isopropylbenzene	0.0426	0.0050	mg/kg wet	0.05000	85	70-130	0.6	25	
Methyl tert-Butyl Ether	0.0493	0.0050	mg/kg wet	0.05000	99	70-130	0.6	25	
Methylene Chloride	0.0461	0.0250	mg/kg west	0.05000	92	70-130	0.09	25	
Naphthalene	0.0474	0.0050	mg/kg wet	0.05000	95	70-130	0.2	25	
n-Butylbenzene	0.0492	0.0050	mg/kg wet	0.05000	98	70-130	1	25	
n-Progylbenzene	0.0503	0.0050	mg/kg wet	0.05000	101	70-130	0.4	25	
sec-Butylbenzene	0,0487	0.0050	mg/kg wet	0,05000	97	70-130	1	25	
Styrene	0.0488	0.0050	mg/kg wet	0.05000	98	70-130	0.7	25	
tert-Butylbenzene	0.0478	0.0050	mg/kg wet	0.05000	96	70-130	0.3	25	
Tertiary-amyl methyl ether	0.0481	0.0050	mg/kg wet	0.05000	96	70-130	3	25	
Tetrachloroethene	0.0449	0.0050	mg/kg wet	0.05000	90	70-130	0.8	25	
Tetrahydrofuran	0.0534	0.0050	mg/kg wet	0.05000	107	70-130	2	25	
Toluene	0.0464	0.0050	mg/kg wet	0.05000	93	70-130	0.5	25	
trans-1,2-Dichloroethene	0.0438	0.0050	mg/kg wet	0.05000	88	70-130	0	25	
trans-1,3-Dichloropropene	0.0438	0.0050	ma/ka wet	0.05000	88	70-130	2	25	
Trichloroethene	0.0447	0.0050	mg/kg wet	0.05000	89	70-130	2	25	
Vinyl Acetate	0.0567	0.0050	mg/kg wet	0.05000	113	70-130	0.4	25	
Vinyl Chloride	0.0446	0.0100	mg/kg wet	0.05000	89	70-130	1	25	
Xylene O	0.0466	0.0050	mg/kg wet	0.05000	93	70-130	3	25	
Xylene P,M	0.0953	0.0100	mg/kg wet	0.1000	95	70-130	0.3	25 25	
	0.0462	0.0100	mg/kg wet	0.05000	92	70-130 70-130	V.J		
Surrogate: 1,2-Dichlaroethane-d4	0.0475		mg/kg wet	0.05000	92 95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0773		ingrig rect	U.U.JUUU	33	/U-130			

Surrogate: Dibromofluoromethane

Surrogate: Toluene-d8

0.0468

0.0481

mg/kg wet

mg/kg wet

70-130

70-130

0.05000

0.05000



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

				Splke	Source		%REC		RPD	
Analyte	Result	MRL	Units	Levei	Result	%REC	Umits	RPD	Limit	Qualifier
8100M Total Petroleum Hydrocarbons										

Batzh CK01024 - 3546									
Blank	-								
Decane (C10)	ND	0.2	mg/kg wet						
Docosane (C22)	ND	0.2	mg/kg wet						
Dodeczne (C12)	ND	0.2	mg/kg wet						
Eicosane (C20)	ND	0.2	mg/kg wet						
Hexacosane (C26)	ND	0.2	mg/kg wet						
Hexadecane (C16)	ND	0.2	mg/kg wet						
Nonadecane (C19)	ND	0.2	mg/kg wet						
Nonane (C9)	ND	0.2	mg/kg wet						
Octacosane (C28)	ND	0.2	mg/kg wet						
Octadecane (C18)	ND	0.2	mg/kg wet						
Fetracosane (C24)	ND	0.2	mg/kg wet						
Tetradecane (C14)	ND	0.2	mg/kg wet						
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet						
Triacontane (C30)	ND	0.2	mg/kg wet						
Surropate: O-Terphenyl	3.83		mg/kg wet	5.000	77	40-140			
LCS									
Dezane (C10)	1.7	0.2	mg/kg wet	2,500	67	40-140			
Domsane (C22)	1.9	0.2	mg/kg wet	2.500	76	40-140			
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500	75	40-140			
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500	79	40-140			
Hexacosane (C26)	1.9	0.2	mg/kg wet	2.500	77	40-140			
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500	78	40-140			
Nonadecane (C19)	2.0	0.2	mg/kg wet	2,500	80	40-140			
Nonane (C9)	1.4	0.2	mg/kg wet	2.500	56	30-140			
Octacosane (C28)	1.9	0.2	mg/kg wet	2.500	77	40-140			
Octadecane (C18)	2.0	0.2	mg/kg wet	2.500	79	40-140			
Tetracosane (□4)	2.0	0.2	mg/kg wet	2.500	78	40-140			
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500	76	40-140			
Total Petroleum Hydrocarbons	24.0	37.5	mg/kg wet	35.00	69	40-140			
Triacontane (C30)	1.9	0.2	mg/kg wet	2.500	76	40-140			
Company O. Tamband	3.72	- -	mg/kg wet	5.000	74	40-140			
Surrogate: O-Terphenyl									
LCS Dup Decane (C10)	1.7	0.2	mg/kg wet	2,500	69	40-140	3	50	
Docosane (C22)	2,0	0.2	mg/kg wet	2.500	80	40-140	5	50	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500	77	40-140	3	50	
	2.1	0.2	mg/kg wet	2.500	83	40-140	5	50	
Elasane (C20)	2.0	0.2	mg/kg wet	2,500	82	40-140	5	50	
Heracosane (C26)	2.0	0.2	mg/kg wet	2,500	80	40-140	2	50	
Hexadecane (C16)	2.1	0.2	mg/kg wet	2,500	83	40-140	5	50	
Nonaderane (C19)				2.500	56	30-140	0.004	50	
Nonane (C9)	1.4	0.2	mg/kg wet		50 81		5	50	
Octacosane (C28)	2.0	0.2	mg/kg wet	2.500		40-140		50	
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500	62	40-140	4	50	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

inalyte intch CK01024 - 3546 irracusane (C24)		Result	MRL								O-alica.
tracosane (C24)			9100M T-4	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
tracosane (C24)			9100M 10	tal Petroleum	riyuroca	проп5					
		2.1	0.2	mg/kg wet	2.500		83	40-140	5	50	
etradecane (C14)		2.0	0.2	mg/kg wet	2.500		78	40-140	3	50	
tal Petroleum Hydrocarbon	ıs	25.1	37.5	mg/kg wet	35.00		72	40-140	5	50	
lacontane (CIO)		2.0	0.2	mg/kg wet	2.500		80	40-140	5	50	
urrogate: O-Terphenyl		3.84		mg/kg wet	5.000		77	40-140			
etrtx Spike S	iource: 1011142-01										
stane (C10)		1.9	0.2	mg/kg dry	2,686	ND	72	40-140			
ocosane (C22)		2.1	0.2	mg/kg dry	2.686	ND	79	40-140			
odecane (C12)		2.2	0.2	mg/kg dry	2.686	ND	80	40-140			
cosane (C20)		2.2	0.2	mg/kg dry	2.686	ND	82	40-140			
exacosane (C26)		2.2	0.2	mg/kg dry	2.686	ND	81	40-140			
exaderane (C16)		2.2	0.2	mg/kg dry	2.686	ND	83	40-140			
onadecane (C19)		2.2	0.2	mg/kg dry	2.686	ND	83	40-140			
onane (C9)		1.6	0.2	mg/kg dry	2.686	ND	60	30-140			
ctacosane (CZ8)		2.2	0.2	mg/kg dry	2.686	ND	80	40-140			
ctadecane (C18)		2.2	0.2	mg/kg dry	2,686	ND	82	40-140			
etracosane (C24)		2.2	0.2	mg/kg dry	2.686	ND	82	40-140			
etradecane (C14)		2.2	0.2	mg/kg dry	2.686	ND	81	40-140			
otal Petroleum Hydrocarbon	ns	27.8	40.3	mg/kg dry	37.61	ND	74	40-140			
lacontane (C30)		2.1	0.2	mg/kg dry	2,686	ND	79	40-140			
urrogate: O-Terphenyl		4.19		mg/kg dry	5.373		78	40-140			
	Source: 1011142-01										
ezane (C10)		1.9	0.2	mg/kg dry	2.660	ND	70	40-140	4	50	
ocosane (C22)		2.1	0.2	mg/kg dry	2.660	ND	81	40-140	1	50	
odecane (C12)		2.1	0.2	mg/kg dry	2.660	ND	78	40-140	4	50	
cosane (C20)		2.2	0.2	mg/kg dry	2,660	ND	83	40-140	0.8	50	
exacosane (C26)		2.2	0.2	mg/kg dry	2.660	ND	83	40-140	2	50	
exadecane (C16)		2.2	0.2	mg/kg dry	2,660	ND	83	40-140	0.7	50	
onadecane (C19)		2.2	0.2	mg/kg dry	2.660	ND	84	40-140	0.4	50	
onane (C9)		1.5	0.2	mg/kg dry	2,660	ND	57	30-140	6	50	
ctacosane (C28)		2.2	0.2	mg/kg dry	2,660	ND	82	40-140	1	50	
ctadecane (C18)		2.2	0.2	mg/kg dry	2.660	ND	83	40-140	0.05	50	
etracosane (C24)		2.2	0.2	mg/kg dry	2.660	ND	83	40-140	1	50	
etradecane (C14)		2.1	0.2	mg/kg dry	2.660	ND	80	40-140	2	50	
otal Petroleum Hydrocarbor	ns	28.8	39.9	mg/kg dry	37.23	ND	77	40-140	3	50	
riacontane (C30)		2.2	0,2	mg/kg dry	2.660	ND	82	40-140	2	50	
urrogate: O-Terphenyi		4.23		mg/kg dry	5.319		80	40-140			
			8270C Semi	i-Volatile Org		pounds					

Batch CK01023 - 3546

Blank

1,1-Biphenyi ND

mg/kg wet
Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com

0.333



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

	=			Spike	Source		%REC		RPD		
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Limit	Qualifier	l

82700	Semi-Volatile	Organic	Compounds
02/00	Dell II- A Old Mie	Organic	COLLIDOGLIGS

Batzh CK01023 - 3546			
1,2,4-Trichlorobenzene	ND	0.333	mg/kg wet
1,2-Dichlorobenzene	ND	0.333	mg/kg wet
1,3-Dichlorobenzene	ND	0.333	mg/kg wet
I,4-Dichlorobenzene	ND	0.333	mg/kg wet
2,3,4,6-Tetrachlorophenol	ND	1.67	mg/kg wet
2,4,5-Trichlorophenol	ND	0.333	mg/kg wet
2,4,6-Trichlorophenol	ND	0.333	mg/kg wet
2,4-Dichlorophenol	ND	0.333	mg/kg wet
2,4-Dimethylphenol	ND	0.333	mg/kg wet
2,4-Dinitrophenol	ND	1.67	mg/kg wet
2,4-Dinitrotoluene	ND	0.333	mg/kg wet
2,6-Dinitrotoluene	ND	0.333	mg/kg wet
2-Chloronaphthalene	ND	0.333	mg/kg wet
2-Chlorophenol	ND	0.333	mg/kg wet
2-Methylnaphthalene	ND	0.333	mg/kg wet
2-Methylphenol	ND	0.333	mg/kg wet
2-Nitroaniline	ND	0.333	mg/kg wet
2-Nitrophenol	ND	0.333	mg/kg wet
3,3°-Dichlorobenzidinė	ND	0.667	mg/kg wet
3+4-Methylphenol	ND	0.667	mg/kg wet
3-Nitroaniline	ND	0.333	mg/kg wet
4,6-Dinitro-2-Methylphenol	ND	1.67	mg/kg wet
4-Bromophenyl-phenylether	ND	0.333	mg/kg wet
4-Chioro-3-Methylphenol	ND	0.333	mg/kg wet
	ND	0.553	mg/kg wet
4-Chloroaniline	ND	0.333	mg/kg wet
4-Chloro-phenyl-phenyl ether	ND ND	0.333	mg/kg wet
4-Nitroaniline			
4-Nitrophenol	ND	1.67	mg/kg wet
Acenaphthene	ND	0.333	mg/kg wet
Acenaphthylene	ND	0.333	mg/kg wet
Acetophenone	ND	0.667	mg/kg wet
Antline	ND	0.667	mg/kg wet
Anthracene	ND	0.333	mg/kg wet
Azobenzene	ND	0.333	mg/kg wet
Benzo(a)anthracene	ND	0.333	mg/kg wet
Benzo(a)pyrene	ND	0.167	mg/kg wet
Benzo(b)fluoranthene	ND	0.333	mg/kg wet
Benzo(g,h,l)perylene	ND	0.333	mg/kg wet
Benzo(k)fluoranthene	ND	0.333	mg/kg wet
Benzoic Acid	ND	1.67	mg/kg wet
Benzyi Akohol	ND	0.333	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.333	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.333	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result,	%REC	Umlts	RPD	Umit	Qualifier
	8	270C Semi-	Volatile Oro	anic Com	nounds					

	:	8270C Semi-	·Volatile Orga	nic Compou	nds		
Batch CK01023 - 3546							
Butylberuzylphthalate	ND	0.333	mg/kg wet				
Carbazole	ND	0.333	mg/kg wet				
Chrysene	ND	0.167	mg/kg wet				
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet				
Dibenzofuran	ND	0.333	mg/kg west				
Diethylphthalate	ND	0.333	mg/kg wet				
Dimethylphthalate	ND	0.333	mg/kg wet				
Di-n-butylphthalate	ND	0.333	mg/kg wet				
Di-n-octy/phthalate	ND	0.333	mg/kg wet				
Fluoranthene	ND	0.333	mg/kg wet				
Fluorene	ND	0.333	mg/kg wet				
Hexachiorobenzene	ND	0.167	mg/kg wet				
Hexachlorobutadiene	ND	0.333	mg/kg wet				
Hexachlorocyclopentadiene	ND	1.67	mg/kg wet				
Hexachloroethane	ND	0.333	mg/kg wet				
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet				
Isophorone	ND	0.333	mg/kg wet				
Naphthalene	ND	0.333	mg/kg wet				
Nitrobenzene	ND	0.333	mg/kg wet				
N-Nitrosodimethylamine	ND	0.333	mg/kg wet				
N-Nitroso-Di-n-Propylamine	ND	0.333	mg/kg wet				
N-nitrosodiphenylaminė	ND	0.333	mg/kg wet				
Pentachlorophenol	ND	1.67	mg/kg wet				
Phenanthrene	ND	0.333	mg/kg wet				
Phenoi	ND	0.333	mg/kg wet				
Pyrené	ND	0.333	mg/kg wet				
Pyridine	ND	1.67	mg/kg wet				
Surrogate: 1,2-Dichlorobenzene-d4	2.15		mg/kg wet	3.333	65	30-130	
Surrogate: 2,4,6-Tribromophenol	3.70		mg/kg wet	5.000	74	30-130	
Surrogate: 2-Chlorophenol-d4	3.02		mg/kg wet	5.000	60	30-130	
Surrogate: 2-Fluorobiphenyl	2.20		mg/kg wet	3.333	66	30-130	
Surrogate: 2-Fluorophenol	2.96		mg/kg wet	5.000	59	30-130	
Surrogate: Nitrobenzene-d5	2,19		mg/kg wet	3.333	66	30-130	
Surrugate: Phenol-d6	3.14		mg/kg wet	5.000	63	30-130	
Surrogate: p-Terphenyl-d14	2.99		mg/kg west	3.333	90	30-130	
LCS							
1,1-Biphenyl	2,81	0.333	mg/kg wet	3.333	84	40-140	
1,2,4-Trichlorobenzene	2.73	0.333	mg/kg wet	3.333	62	40-140	
1,2-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333	79	40-140	
1,3-Dichlorobenzene	2.62	0.333	mg/kg wet	3.333	79	40-140	
1,4-Dichlorobenzene	2.52	0.333	mg/kg wet	3.333	76	40-140	
2,3,4,6-Tetrachlorophenol	2.84	1.67	mg/kg wet	3.333	85	30-130	
2,4,5-Trichlorophenol	2.75	0.333	mg/kg wet	3.333	63	30-130	
2,4,6-Trichlorophenol	2,64	0.333	mg/kg wet	3.333	85	30-130	
2,4-Dichforophenol	2.68	0.333	mg/kg wet	3.333	B6	30-130	

Quality



The Microbiology Division of Thielsch Engineering, Inc.

%REC



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

Spike

Source

Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Umit	Qualifier
		B270C Semi-	-Volatile Orgi	enic Com	pounds					
witch CK01023 - 3546										
,4-Dimethylphenol	2.76	0.333	mg/kg wet	3.333		83	30-130			
,4-Dinitrophenol	2.78	1.67	mg/kg wet	3.333		83	30-130			
4-Dinitrotoluene	2.68	0.333	mg/kg wet	3.333		87	40-140			
,6-Dinkrotokuene	2.85	0.333	mg/kg wet	3.333		85	40-140			
-Chioronaphthalene	2.58	0.333	mg/kg wet	3.333		77	40-140			
Chlorophenol	2.59	0.333	mg/kg wet	3.333		78	30-130			
Methylnaphthalene	2.87	0.333	mg/kg wet	3.333		86	40-140			
-Methylphenol	2.59	0.333	mg/kg wet	3.333		78	30-130			
Nitroaniline	2.75	0.333	mg/kg wet	3.333		82	40-140			
Nitrophenol	2.86	0.333	mg/kg wet	3.333		86	30-130			
3 '-Dichlorobenzidine	2.69	0.667	mg/kg wet	3.333		81	40-140			
+4-Methylphenol	6.50	0.667	mg/kg wet	6.667		98	30-130			
Nitroaniline	2.71	0.333	mg/kg wet	3.333		81	40-140			
6-Dinitro-2-Methylphenol	3.06	1.67	mg/kg wet	3.333		92	30-130			
-Bromophenyl-phenylether	3.07	0.333	mg/kg wet	3.333		92	40-140			
Chloro-3-Methylphenol	2.92	0.333	mg/kg wet	3.333		87	30-130			
Chloroaniline	2.33	0.667	mg/kg wet	3.333		70	40-140			
Chloro-phenyl-phenyl ether	2.91	0.333	mg/kg wet	3.333		87	40-140			
Nitroantline	2.77	0.333	mg/kg wet	3.333		83	40-140			
Nrtrophenol	2.52	1.67	mg/kg wet	3.333		75	30-130			
tenaphthene	2.92	0.333	mg/kg wet	3.333		68	40-140			
zenaphthylene	2.66	0.333	mg/kg wet	3.333		80	40-140			
etophenone	2.60	0.667	mg/kg wet	3.333		78	40-140			
nilinė	2.00	0.667	mg/kg wet	3.333		60	40-140			
nthracene	3.07	0.333	mg/kg wet	3.333		92	40-140			
zobenzene	2.62	0.333	mg/kg wet	3.333		79	40-140			
enzo(a)anthracene	3.16	0.333	mg/kg wet	3.333		95	40-140			
елго(а)ругеле	3.19	0.167	mg/kg wet	3.333		96	40-140			
enzo(b)fluoranthene	3.06	0.333	mg/kg wet	3.333		92	40-140			
enzo(g,h,i)perylene	3.34	0.333	mg/kg wet	3.333		100	40-140			
enzo(k)fluoranthene	3.24	0.333	mg/kg west	3.333		97	40-140			
enzoic Add	2.20	1.67	mg/kg wet	3.333		66	40-140			
enzyl Alcohol	2.67	0.333	mg/kg wet	3.333		80	40-140			
is(2-Chloroethoxy)methane	2.55	0.333	mg/kg wet	3.333		76	40-140			
is(2-Chloroethyl)ether	2.29	0.333	mg/kg wet	3.333		69	40-140			
ls(2-chloroisopropyl)Ether	2.59	0.333	mg/kg wet	3.333		78	40-140			
s(2-Ethylhexyl)phthalate	3.06	0.333	mg/kg wet	3.333		92	40-140			
utylbenzylphthalate	2.99	0.333	mg/kg wet	3.333		90	40-140			
arbazole	2.89	0.333	mg/kg wet	3.333		87	40-140			
hrysene	3.21	0.167	mg/kg wet	3.333		96	40-140			
ibenzo(a,h)Anthracene	3.41	0.167	mg/kg wet	3.333		102	40-140			
ibenzofuran	2,68	0.333	mg/kg wet	3.333		80	40-140			
iethylphthalate	2.85	0.333	mg/kg wet	3.333		85	40-140			
imethylphthalate	2.89	0.333	mg/kg wet	3.333		87	40-140			
vi-n-butylphthalate	2.90	0.333	mg/kg wet	3.333		87	40-140			



The Microbiology Division of Thielsch Engineering, Inc.

%REC



RPD

CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

Spike

Source

				Spike	Source		96KEC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifi
		3270C SemI-	Volatile Orga	enic Com	pounds					
ntch CK01023 - 3546										
+n-octylphthalate	3.19	0.333	mg/kg wet	3,333		96	40-140			
luoranthene	3.08	0.333	mg/kg wet	3.333		92	40-140			
luorene	2.98	0.333	mg/kg wet	3.333		89	40-140			
lexachlorobenzene	2.98	0.167	mg/kg wet	3.333		89	40- 140			
iesachlorobutadiene	2.79	0.333	mg/kg wet	3.333		84	40-140			
lexachlorocyclopentadiene	2.50	1.67	mg/kg wet	3.333		75	40-140			
lexachloroethane	2,27	0.333	mg/kg wet	3.333		68	40-140			
ndeno(1,2,3-cd)Pyrene	3.38	0.333	mg/kg wet	3.333		101	40-140			
phorone	2,14	0.333	mg/kg wet	3.333		64	40-140			
aphthalene	2.73	0.333	mg/kg wet	3.333		82	40-140			
trobazae	2,62	0.333	mg/kg wet	3.333		79	40-140			
-Nitrosodimethylamine	1.81	0.333	mg/kg wet	3.333		54	40-140			
-Nitroso-Di-n-Propylamine	2,30	0.333	mg/kg wet	3.333		69	40-140			
-nitrosodiphenylamine	3.11	0.333	mg/kg wet	3.333		93	40-140			
entachlorophenol	2.98	1.67	mg/kg wet	3.333		89	30-130			
henanthrene	2.91	0.333	mg/kg wet	3.333		87	40-140			
henol	2.34	0.333	mg/kg wet	3.333		70	30-130			
yrene	3.09	0.333	mg/kg wet	3.333		93	40-140			
yridine	1.93	1.67	mg/kg west	3,333		58	40-140			
urrogate: 1,2-Dichlorobenzene-d4	2.59		mg/kg wet	3,333		78	30-130			
urrogate: 2,4,6-Tribromophenol	4.69		mg/kg wet	5.000		94	30-130			
urrogate: 2-Chlorophenol-d4	3.78		mg/kg wet	5.000		76	30-130			
urrogate: 2-Fluorobiphenyl	2.76		mg/kg wet	3.333		83	30-13 0			
urrogate: 2-Fluorophenol	3.67		mg/kg wet	5.000		73	30-130			
urrogate: Nitrobenzene-d5	2.75		mg/kg wet	3.333		82	30-130			
Surrogate: Phenol-d6	3.95		mg/kg wet	5.000		79	30-130			
- Gurrogate: p-Terphenyl-d14	3.08		mg/kg wet	3.333		92	30-130			
CS Dup										
1-Biphenyl	2.85	0.333	mg/kg wet	3.333		86	40-140	1	30	
,2,4-Trichlorobenzene	2.81	0.333	mg/kg wet	3.333		84	40-140	3	30	
,2-Dichlorobenzene	2.71	0.333	mg/kg wet	3.333		81	40-140	3	30	
,3-Dichlorobenzene	2.72	0.333	mg/kg wet	3.333		82	40-140	4	30	
,4-Dichlorobenzene	2.60	0.333	mg/kg wet	3.333		78	40-140	3	30	
,3,4,6-Tetrachiorophenol	3.01	1.67	mg/kg wet	3.333		90	30-130	6	30	
4,5-Trichlorophenol	2.85	0.333	mg/kg wet	3.333		85	30-130	3	30	
4,6-Trichlorophenol	2.93	0.333	mg/kg wet	3.333		88	30-130	3	30	
,4-Dichlorophenol	2.91	0.333	mg/kg wet	3.333		87	30-130	1	30	
,4-Dimethylphenol	2.77	0.333	mg/kg wet	3.333		83	30-130	0.7	30	
,4-Dinitrophenol	2.93	1.67	mg/kg wet	3.333		88	30-130	5	30	
,4-Dinitrotoluene	3.06	0.333	mg/kg wet	3.333		92	40-140	6	30	
,6-Dinitratoluene	2.95	0.333	mg/kg wet	3.333		89	40-140	4	30	
-Chloronaphthalene	2.62	0.333	mg/kg wet	3.333		79	40-140	2	30	
-Chlorophenol		0.333		3.333		79 79				
	2,62		mg/kg wet				30-130	0.9	30	
-Methylnaphthalene	2.84	0.333	mg/kg wet	3.333		85	40-140	0.9	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

ESS Laboratory Work Order: 1011142 Client Project ID: Lincoln Lace

				Spike	Source	-	%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270 <i>C</i>	Semi-Volatile	Organic	Compounds
02/UL	Sellii-Anianie	Ulualii	CONTIDUUNIUS

AAN Ø	*	0.000		3.333	85	40-140	3	30	
-Nitroaniline	2.84	0,333	mg/kg wet						
-Nitrophenol	2,94	0.333	mg/kg wet	3.333	88	30-130	2	30	
3 *-Dichlorobenzidine	2.52	0.667	mg/kg wet	3.333	76	40-140	6	30	
+4-Methylphenol	6.40	0.667	mg/kg wet	6.667	96	30-130	2	30	
Nitroaniline	2.70	0.333	mg/kg wet	3.333	81	40-140	0.5	30	
6-Dinitro-2-Methylphenol	3.13	1.67	mg/kg wet	3.333	94	30-130	2	30	
-Bromophenyl-phenylether	3.04	0.333	mg/kg wet	3.333	91	40-140	0.8	30	
Chioro-3-Methylphenol	2.68	0.333	mg/kg wet	3.333	86	30-130	1	30	
Chloroaniline	2.15	0.667	mg/kg wet	3.333	65	40-140	8	30	
Chloro-phenyl-phenyl ether	2,99	0.333	mg/kg wet	3.333	90	40-140	3	30	
Nitroaniline	2.67	0.333	mg/kg wet	3.333	80	40-140	4	30	
Nitrophenol	2.77	1.67	mg/kg wet	3.333	83	30-130	10	30	
cenaphthene	2.96	0.333	mg/kg wet	3.333	89	40-140	2	30	
cenaphthylene	2.71	0.333	mg/kg wet	3.333	81	40-140	2	30	
cetophenone	2.63	0.667	mg/kg wet	3.333	79	40-140	1	30	
ntine	2.14	0,667	mg/kg wet	3.333	64	40-140	6	30	
nthracene	3.12	0.333	mg/kg wet	3.333	94	40-140	2	30	
zobenzene	2.63	0.333	mg/kg wet	3.333	79	40-140	0.6	30	
enzo(a)anthracene	3.30	0.333	mg/kg wet	3.333	99	40-140	4	30	
епахо(а) ругеле	3.28	0.167	mg/kg wet	3.333	99	40-140	3	30	
enzo(b)fluoranthene	3.52	0.333	mg/kg wet	3.333	106	40-140	14	30	
nzo(g,h,i)perylene	3.44	0.333	mg/kg wet	3.333	103	40-140	3	30	
enzo(k)fluoranthene	2.93	0.333	mg/kg wet	3.333	88	40-140	10	30	
enzoic Acid	2.47	1.67	mg/kg wet	3.333	74	40-140	11	30	
enzyl Alcohol	2.54	0.333	mg/kg wet	3.333	76	40-140	5	30	
s(2-Chloroethoxy)methane	2.56	0.333	mg/kg wet	3.333	77	40-140	0.6	30	
s(2-Chloroethyf)ether	2.37	0.333	mg/kg wet	3.333	71	40-140	3	30	
s(2-chloroisopropyl)Ether	2.63	0.333	mg/kg wet	3.333	79	40-140	2	30	
s(2-Ethylhexyl)phthalate	3.20	0.333	mg/kg wet	3.333	96	40-140	5	30	
rtylbenzylphthalate	3.14	0.333	mg/kg wet	3.333	94	40-140	5	30	
arbazole	3.01	0.333	mg/kg wet	3.333	90	40-140	4	30	
hrysene	3.27	0.167	mg/kg wet	3.333	98	40-140	2	30	
ibenzo(a,h)Anthracene	3.42	0.167	mg/kg wet	3.333	103	40-140	0.08	30	
ibenzofuran	2.75	0.333	mg/kg wet	3.333	82	40-140	3	30	
elethylphthalate	2.99	0.333	mg/kg wet	3.333	90	40-140	5	30	
methylphthalate	2,94	0.333	mg/kg wet	3.333	88	40-140	2	30	
t-n-butylphthalate	3.03	0.333	mg/kg wet	3.333	91	40-140	4	30	
i-n-octylphthalate	3.34	0.333	mg/kg wet	3.333	100	40-140	4	30	
voranthene	3.21	0.333	mg/kg wet	3.333	96	40-140	4	30	
Uorene	3.10	0.333	mg/kg wet	3.333	93	40-140	4	30	
lexachlorobenzene	3.00	0.167	mg/kg wet	3.333	90	40-140	0.8	30	
lexachiorobutadiene	2.92	0.333	mg/kg wet	3.333	88	40-140	5	30	
-lexachlorocyclopentadiene	2.71	1.67	mg/kg wet	3.333	81	40-140	8	30	
lexachloroethane	2.40	0.333	mg/kg wet	3,333	72	40-140	5	30	
indeno(1,2,3-cd)Pyrene	3.48	0.333	mg/kg wet	3,333	104	40-140	3	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

A	B 19			Splke	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Limit	Qualifie
	8	3270C Semi-	Volatile Orga	anic Com	pounds					
atch CK01023 - 3546										
ophorone	2.15	0.333	mg/kg wet	3.333		65	40-140	0.5	30	
aphthalene	2.83	0.333	mg/kg wet	3.333		85	40-140	4	30	
itrobenzene	2.65	0.333	mg/kg wet	3.333		79	40-140	1	30	
-Nitrosodimethylamine	1,94	0.333	mg/kg wet	3.333		58	40-140	7	30	
-Nitroso-Di-n-Propylamine	2.34	0.333	mg/kg wet	3.333		70	40-140	2	30	
-nltrosodiphenylamine	3.13	0.333	mg/kg wet	3.333		94	40-140	0.4	30	
entachlorophenol	3.13	1.67	mg/kg wet	3.333		94	30-130	5	30	
henanthrene	2.98	0.333	mg/kg wet	3.333		89	40-140	2	30	
nerol	2.32	0.333	mg/kg wet	3.333		70	30-130	1	30	
yrene	3.25	0.333	mg/kg wet	3.333		97	40-140	5	30	
yridine	2.04	1.67	mg/kg wet	3.333		61	40-140	5	30	
urrogate: 1,2-Dichlorobenzene-d4	2.65		mg/kg wet	3.333		79	30-130			
urrogate: 2,4,6-Tribromophenol	4.72		mg/kg wet	5.000		94	30-130			
urrogate: 2-Chlorophenol-d4	3.81		mg/kg wet	5.000		76	30-130			
urrogate: 2-Fluorobiphenyl	2.79		mg/kg wet	3.333		84	30-130			
urrogate: 2-Fluorophenol	3.83		mg/kg wet	5.000		77	30-130			
urrogate: Nitrobenzene-d5	2.77		mg/kg wet	3.333		83	30-130			
urrogate: Phenol-d6	3.91		mg/kg wet	5.000		78	30-130			
urrogate: p-Terphenyi-d14	3.18		mg/kg wet	3.333		95	30-130			
atrix Spike Source: 1011142-01										
1-Biphenyl	2.93	0.338	mg/kg dry	3.388	ND	86	40-140			
2,4-Trichlorobenzene	2.81	0.338	mg/kg dry	3.388	ND	83	40-140			
2-Dichlorobenzene	2.82	0.338	mg/kg dry	3.388	ND	83	40-140			
3-Dichlorobenzene	2.69	0.338	mg/kg dry	3.388	ND	79	40-140			
4-Dichlorobenzene	2.72	0.338	mg/kg dry	3.388	ND	80	40-140			
3,4,6-Tetrachtorophenol	2.83	1,70	mg/kg dry	3.388	ND	84	30-130			
4,5-Trichlorophenol	2.80	0.338	mg/kg dry	3.388	ND	83	30-130			
4,6-Trichlorophenol	2.79	0.338	mg/kg dry	3.388	ND	82	30-130			
,4-Dichlorophenol	2,86	0.338	mg/kg dry	3.388	ND	84	30-130			
,4-Dimethylphenol	2.76	0.338	mg/kg dry	3.388	ND	81	30-130			
,4-Dinitrophenol	1.97	1.70	mg/kg dιγ	3.388	ND	58	30-130			
,4-Dinitrotokiene	2.89	0.338	mg/kg dry	3.388	ND	85	40-140			
,6-Dinitrotoluene	2.87	0.338	mg/kg dry	3.388	ND	85	40-140			
-Chloronaphthalene	2.61	0.338	mg/kg dry	3,388	ND	77	40-140			
-Chlorophenol	2.71	0.338	mg/kg dry	3,388	ND	80	30-130			
Methylnaphthalene	2.90	0.338	mg/kg dry	3,388	ND	86	40-140			
Methylphenol	2.67	0.338	mg/kg dry	3.388	ND	79	30-130			
Nitroanline	2,74	0.338	mg/kg dry	3.388	ND	81	40-140			
Nitrophenol	2.85	0.338	mg/kg dry	3.388	ND	84	30-130			
3´-Dichlorobenzidine	2.55	0.536		3.388	ND	75				
+4-Methylphenol			mg/kg dry				40-140			
**	7.02	1 36	mg/kg dry	6.776	ND	104	30-130			
-Nitroaniline	2.63	0.338	mg/kg dry	3.388	ND	78	40-140			
,6-Dinitro-2-Methylphenol	2.82	1.70	mg/kg dry	3.388	ND	83	30-130			
-Bromophenyl-phenylether	3.02	0.338	mg/kg dry	3.388	ND	89	40-140			
-Chloro-3-Methylphenol	2.68	0.338	mg/kg dry	3.388	ND	85	30-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Batch CK01023 - 3546

ESS Laboratory Work Order: 1011142 Client Project ID: Lincoln Lace

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier

8270C Semi-Volatile Organic Compounds								

4-Chloroaniline	2.18	0.678	mg/kg dry	3,388	ND	64	40-140	
4-Chloro-phenyl-phenyl ether	2.94	0.338	mg/kg dry	3.388	ND	87	40-140	
4-Nitroaniline	2.72	0.338	mg/kg dry	3.388	ND	80	40-140	
4-Nitrophenol	2.58	1.70	mg/kg dry	3.388	ND	76	30-130	
Acenaphthene	2.96	0,338	mg/kg dry	3.388	ND	87	40-140	
Acenaphthylene	2.65	0.338	mg/kg dry	3.388	ND	78	40-140	
Acetophenone	2.72	0.678	mg/kg dry	3.388	ND	80	40-140	
Aniline	2,11	0.678	mg/kg dry	3.388	ND	62	40-140	
Anthracene	3.10	0.338	mg/kg dry	3.388	ND	91	40-140	
Azobenzene	2.64	0.338	mg/kg dry	3.388	ND	78	40-140	
Benzo(a)anthracene	3.18	0.338	mg/kg dry	3.388	ND	94	40-140	
Велго(а)ругеле	3.22	0.170	mg/kg dry	3.388	ND	95	40-140	
Benzo(b)fluoranthene	3.00	0.338	mg/kg dry	3.388	ND	88	40-140	
Benzo(g,h,i)perylene	3.28	0,338	mg/kg dry	3.388	ND	97	40-140	
Benzo(k)fluoranthene	3.45	0.338	mg/kg dry	3.388	ND	102	40-140	
Benzoic Acid	ND	1 70	mg/kg dry	3.388	ND		40-140	М-
Benzyl Alcohol	2.84	0.338	mg/kg dry	3.388	ND	84	40-140	
bis(2-Chloroethaxy)methane	2.49	0.338	mg/kg dry	3.388	ND	74	40-140	
bis(2-Chloroethyl)ether	2.32	0.338	mg/kg dry	3.388	ND	68	40-140	
bis(2-chloroisopropyl)Ether	2.70	0.338	mg/kg dry	3.388	ND	80	40-140	
bis(2-Ethylhexyl)phthalate	3.19	0.338	mg/kg dry	3.388	ND	94	40-140	
Butylbenzylphthalate	3.03	0.338	mg/kg dry	3.388	ND	89	40-140	
Carbazole	2.88	0.338	mg/kg dry	3.388	ND	85	40-140	
Chrysene	3,16	0.170	mg/kg dry	3.388	ND	94	40-140	
Dibenzo(a,h)Anthracene	3.37	0.170	mg/kg dry	3.388	ND	99	40-140	
Diberzofuran	2,74	0.338	mg/kg dry	3.388	ND	81	40-140	
Diethy/phthalate	2.93	0.338	mg/kg dry	3.388	ND	87	40-140	
Dimethylphthalate	2.90	0.338	mg/kg dry	3.388	ND	86	40-140	
Di-n-butylphthalate	2.96	0.338	mg/kg dry	3.388	ND	87	40-140	
Di-n-octylphthalate	3.42	0.338	mg/kg dry	3.388	ND	101	40-140	
Fluoranthene	3.11	0.338	mg/kg dry	3,388	ND	92	40-140	
Fluorene	3.07	0.338	mg/kg dry	3.388	ND	91	40-140	
Hexachiorobenzene	2.94	0.170	mg/kg dry	3.388	ND	87	40-140	
Hexachlorobutadiene	2.90	0.338	mg/kg dry	3.388	ND	86	40-140	
Hexachlorocyclopentadiene	2.43	1.70	mg/kg dry	3.388	ND	72	40-140	
Hexachloroethane	2.62	0.338	mg/kg dry	3,388	ND	77	40-140	
Indeno(1,2,3-cd)Pyrene	3.34	0.338	mg/kg dry	3.388	ND	99	40-140	
Isophorone	2.13	0.338	mg/kg dry	3.388	ND	63	40-140	
Naphthalene	2.75	0.338	mg/kg dry	3.388	ND	81	40-140	
Nitrobenzene	2.65	0.338	mg/kg dry	3.388	ND	78	40-140	
N-Nitrosodimethylamine	1.92	0.338	mg/kg dry	3.388	ND	57	40-140	
N-Nitroso-Di-n-Propylamine	2,58	0.338	mg/kg dry	3,388	ND	76	40-140	
**			- a flora des	3.388	ND	91	40-140	
N-nttrosodiphenylamine	3.08	0.338	mg/kg dry	3.300	MD	27	40-140	
N-nitrosodiphenylamine Pentachlorophenol	3.08 2.74	1.70	mg/kg dry mg/kg dry	3.388	ND	91	30-130	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Quality Control Data

				Spike	Source		%REC		RPD	
Analyte	Result	MRL	Units	Level	Result	%REC	Limits	RPD	Umit	Qualifler

8270C Semi-Volatile Organic Compounds

		027 0C 3CIIII	volucie Orge	anic comp						
atch CK01023 - 3546										
nenol	2.53	0.338	mg/kg dry	3.388	ND	75	30-130			
mene	3.13	0.338	mg/kg dry	3.388	ND	92	40-140			
ridine	1.75	1.70	mg/kg dry	3,388	ND	52	40-140			
urrogate: 1,2-Dichlorobenzene-d4	2,74		mg/kg dry	3.388		81	30-130			
rrogate: 2,4,6-Tribromophenol	4.53		mg/kg dry	5.082		89	30-130			
irrogate: 2-Chlorophenol-d4	3.95		mg/kg dry	5.082		78	30-130			
urrogate: 2-Fluorobiphenyl	2.76		mg/kg dry	3.388		81	30-130			
arrogate: 2-Fluorophenol	3.80		mg/kg dry	5.082		75	30-130			
irrogate: Nitrobenzene-d5	2.69		mg/kg dry	3.388		79	30-130			
irrogate: Phenol-d6	4.02		mg/kg dry	5.082		79	30-130			
imogate: p-Terphenyl-d14	3.04		mg/kg dry	3.388		90	30-130			
strix Spike Dup Source: 1011142-01										
-Biphenyi	2.97	0.345	mg/kg dry	3.454	ND	86	40-140	1	30	
2,4-Trichlorobenzene	2.82	0.345	mg/kg dry	3.454	ND	82	40-140	0.5	30	
2-Dichlorobenzene	2.70	0.345	mg/kg dry	3.454	ND	78	40-140	5	30	
3-Dichlorobenzene	2.60	0.345	mg/kg dry	3.454	ND	75	40-140	3	30	
4-Dichloroberizene	2.66	0.345	mg/kg dry	3.454	ND	77	40-140	2	30	
3,4,6-Tetrachlorophenol	3.07	1.73	mg/kg dry	3,454	ND	89	30-130	8	30	
1,5-Trichlorophenol	2.95	0.345	mg/kg dry	3.454	ND	85	30-130	5	30	
1,6-Trichlorophenol	2.91	0.345	mg/kg dry	3.454	ND	84	30-130	4	30	
4-Dichlorophenol	2.95	0.345	mg/kg dry	3.454	ND	85	30-130	3	30	
1-Dimethylphenol	2.85	0.345	mg/kg dry	3.454	ND	82	30-130	3	30	
4-Dinitrophenol	2,70	1.73	mg/kg dry	3.454	ND	78	30-130	31	30	D-
4-Dinitrotoluene	3.05	0.345	mg/kg dry	3.454	ND	88	40-140	5	30	_
6-Dinitrotoluene	3.03	0.345	mg/kg dry	3.454	ND	88	40-140	6	30	
Chloronaphthalene	2.76	0.345	mg/kg dry	3.454	ND	80	40-140	5	30	
Chlorophenol	2.67	0.345	mg/kg dry	3.454	ND	77	30-130	1	30	
Methylnaphthalene	2.90	0.345	mg/kg dry	3,454	ND	84	40-140	0.01	30	
Methylphenol	2,64	0.345	mg/kg dry	3.454	ND	76	30-130	1	30	
Nitroaniline	2.93	0.345	mg/kg dry	3.454	ND	85	40-140	7	30	
Nitrophenol	2.96	0.345	mg/kg dry	3.454	ND	86	30-130	4	30	
3´-Dichlorobenzidine	2.72	0.691	mg/kg dry	3.454	ND	79	40-140	6	30	
-4-Methylphenol	6.71	0.691	mg/kg dry	6.908	ND	97	30-130	5	30	
Nitroaniline	2.86	0.345	mg/kg dry	3.454	ND	83	40-140	9	30	
6-Dinitro-2-Methylphenol	3.27	1.73	mg/kg dry	3.454	ND	95	30-130	15	30	
Bromophenyl-phenylether	3.17	0.345	mg/kg dry	3.454	ND	92	40-140	5	30	
Chloro-3-Methylphenol	2.96	0.345	mg/kg dry	3.454	ND	86	30-130	3	30	
Chioroanlline	2.27	0.691	mg/kg dry	3.454	ND	66	40-140	4	30	
Chloro-phenyl-phenyl ether	3.07	0.345		3.454	ND	89	40-140	4	30	
Nitroaniline	2.98	0.345	mg/kg dry mg/kg dry	3.454	ND	B6	40-140	9		
Nitrophenol	2.95	1.73	mg/kg dry	3.454	ND	85		13	30	
cenaphthene	3.03	0.345	· ·	3.454			30-130		30	
zenaphthylene			mg/kg dry		ND	88	40-140	2	30	
, ,	2,79	0.345	mg/kg dry	3.454	ND	81	40-140	5	30	
etophenone	2.65	0.691	mg/kg dry	3.454	ND	77	40-140	3	30	
nline	2,07	0.691	mg/kg dry	3.454	ND	60	40-140	2	30	



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

											9
				Splke	Source		%REC		RPD		
Analyte	Result	MRL	Units	Level	Result	%REC	Umits	RPD	Umit	Qualifier	

Anthracene	3.27	0.345	mg/kg dry	3,454	ND	95	40-140	5	30	
Azobenzene	2.76	0.345	mg/kg dry	3.454	ND	80	40-140	4	30	
Senzo(a)anthracene	3.38	0.345	mg/kg dry	3.454	ND	98	40-140	6	30	
Зепхо(в) ругеле	3.36	0.173	mg/kg dry	3.454	ND	97	40-140	4	30	
Benzo(b)fluoranthene	3.38	0.345	mg/kg dry	3.454	ND	98	40-140	12	30	
Benzo(g,h,i)perylene	3.52	0.345	mg/kg dry	3.454	ND	102	40-140	7	30	
Benzo(k)fluoranthene	3 32	0.345	mg/kg dry	3.454	ND	96	40-140	4	30	
Benzoic Acid	0.614	1.73	mg/kg dry	3.454	ND	18	40-140		30	М
Benzyi Alcohol	2.71	0.345	mg/kg dry	3,454	ND	79	40-140	5	30	
ois(2-Chloroethoxy)methane	2.61	0.345	mg/kg dry	3.454	ND	76	40-140	5	30	
ois(2-Chloroethyl)ether	2.21	0.345	mg/kg dry	3.454	ND	64	40-140	5	30	
ois(2-chloroisopropyl)Ether	2.65	0.345	mg/kg dry	3.454	ND	77	40-140	2	30	
ois(2-Ethylhexyl)phthalate	3.29	0.345	mg/kg dry	3.454	ND	95	40-140	3	30	
Butylbenzylphthalate	3.23	0.345	mg/kg dry	3.454	ND	93	40 -140	6	30	
Carbaxole	3.19	0.345	mg/kg dry	3.454	ND	92	40-140	10	30	
Chrysene	3.42	0.173	mg/kg dry	3.454	ND	99	40-140	7	30	
Dibenzo(a,h)Anthracene	3.61	0.173	mg/kg dry	3.454	ND	105	40-140	7	30	
Dibenzofuran	2.85	0.345	mg/kg dry	3.454	ND	82	40-140	4	30	
Diethylphthalate	3.10	0.345	mg/kg dry	3.454	ND	90	40-140	5	30	
Dimethylphthalate	3.05	0.345	mg/kg dry	3.454	ND	88	40-140	5	30	
Di-n-butylphthalate	3.19	0,345	mg/kg dry	3,454	ND	92	40-140	7	30	
Ot-n-octy/phthalate	3.52	0.345	mg/kg dry	3.454	ND	102	40-140	3	30	
Ruoranthene	3.42	0.345	mg/kg dry	3.454	ND	99	40-140	10	30	
- Fluorene	3.20	0.345	mg/kg dry	3.454	ND	93	40-140	4	30	
texachtoroberizene	3.11	0.173	mg/kg dry	3.454	ND	90	40-140	6	30	
Hexachiorobutadiene	2.95	0.345	mg/kg dry	3.454	ND	85	40-140	1	30	
Hexachlorocyclopentadiene	2.51	1.73	mg/kg dry	3.454	ND	73	40-140	3	30	
Hexachloroethane	2,50	0.345	mg/kg dry	3.454	ND	72	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	3.58	0.345	mg/kg dry	3.454	ND	104	40-140	7	30	
Isophorone	2.19	0.345	mg/kg dry	3.454	ND	63	40-140	3	30	
Naphthalene	2.83	0.345	mg/kg dry	3.454	ND	82	40-140	3	30	
Nitrobenzene	2.73	0.345	mg/kg dry	3.454	ND	79	40-140	3	30	
N-Nitrosodimethylamine	1,77	0.345	mg/kg dry	3.454	ND	51	40-140	В	30	
N-Nitroso-Di-n-Propylamine	2.49	0.345	mg/kg dry	3.454	ND	72	40-140	4	30	
N-nitrosodiphenylamine	3.23	0,345	mg/kg dry	3.454	ND	94	40-140	5	30	
Pentachlorophenol	3.18	1.73	mg/kg dry	3.454	ND	92	30-130	15	30	
Phenanthrene	3.11	0.345	mg/kg dry	3.454	ND	90	40-140	7	30	
Phenol	2.53	0.345	mg/kg dry	3.454	ND	73	30-130	0.07	30	
Ругеле	3.23	0.345	mg/kg dry	3.454	ND	94	40-140	3	30	
Pyridine	1.72	1.73	mg/kg dry	3.454	ND	50	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.64		mg/kg dry	3.454		76	30-130			
Surrogate: 2,4,6-Tribromophenol	4.85		mg/kg dry	5.181		94	30-130			
Surrogate: 2-Chlorophenol-d4	3.84		mg/kg dry	5.181		74	30-130			
Surrogate: 2-Fluorobiphenyl	2.90		mg/kg dry	3.454		84	30-130			
Surragate: 2-Fluorophenol	3.73		mg/kg dry	5.181		72	30-130			
Surrogate: Nitrobenzene-d5	2.82		mg/kg dry	3.454		82	30-130			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011142

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Umit	Qualifler
	3	3270C Semi-V	olatile Orgi	anic Com	pounds					
Batzh CK01023 - 3546										
Surrogate: Phenol-d6	4.02		mg/kg dry	5.181		78	30-130			
Surrogate: p-Terphenyi-d14	3.20		mg/kg dry	3.454		93	30-130			



Analyte included in the analysis, but not detected

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

U

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

Notes and Definitions

M-	Matrix Spike recovery is below lower control limit (M-).
D+	Relative percent difference for duplicate is outside of criteria (D+).
D	Diluted.
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit

I/V Initial Volume
F/V Final Volume

§ Subcontracted analysis; see attached report

Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

Range result excludes concentrations of target analytes eluting in that range.
 Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery
LOD Limit of Detection
[CALC] Calculated Analyte
LOQ Limit of Quantitation
DL Detection Limit

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011142

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002 http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/labcert/labcert.aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424 http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301 http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: R1002 http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752 http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911 accredited laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: RC and D	
Client Project ID:	
Shipped/Delivered Via:	<u>Client</u>

ESS Project ID: 10110142
Date Project Due: 11/12/10
Days For Project: 2 Day

Items to be checked upon receipt:

Reviewed By:____

1 1 1 2 2	Yes Yes Yes Yes Yes	40 i 40 i 40 i	ml - VOA ml - VOA ml - VOA ml - VOA ml - VOA	1 2 2 1 2	NP other MeOH NP other	
Sample Numb			tainer Type	# of Containers	MeOH	
Who was called?				1?		
Is Radiation count of Is a cooler present? Cooler Temp: N/A Iced With: None Was COC included was COC signed and Does the COC mate. Is COC complete and S. Was there need to	with samples? d dated by cllent ch the sample and correct?	Yes	15. Any Sub 16. Are ESS 17. Were sa ESS Sample Sub Lab: Analysis: TAT:	t sample volume contracting need labels on correct mples received in the IDs:	led? t containers? ntact?	Yes No Yes No
Air BIII Manifest Pres Air No.: Were Custody Seals Were Custody Seals	Present?	* No No N/A	11. Proper s 12. Any air i	samples properly ample containers oubbles in the VC times exceeded?	used? A vials?	Yes Yes N/A No

Date/Time:___

CHAIN OF CUSTODY

If faster than 5 days, prior approval by laboratory is required #

State where samples were collected from:

Page_

Reporting Limits
RES DEC

Electronic Deliverable

Other

Division of Thielsch Engineering, Inc. 185 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 461-7181 Fax (401) 461-4486 ESS Laboratory www.esslaboratory.com

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters PDEA Other Circle and/orWrite Required Analysis Preservation Code 1-NP, 2-HC1, 3-H2SO,, 4-HNO3, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-MCP-METALS (13) MELYT2 (13) MCb-**ZDBN** TCLP-RCRAB Format: Excel__ Access. X ELIAT (ELIT HA9 0728 **5**79 808 FCB 808 Paxiades 1808 abisina 8082 FCB P≕a ≯ Hd3 HVA VIE EBH DNO ROT2 X 8021 MTBE/BTEX CEO BOI2 Hdv (d)28) <u>ჯ</u> X 524.2 624 ৬ Type of Containers 70 10 тэбтиЙ 5 Containers Ocher Email Address Mb/act errordings 19thus ter @ Tonding Com Sode 30 es14 LACE 17 Gordon Ave, Suite 204 Is this project for any of the following: MA-MCP Navy 1006LOPES-GF6RABO1 Project Name (20 Chat at less) Sampled by: Michael 100 C Sample Identification (20 Our. or less) LINCOLN 100G-READ-TSO1 3000 -270-5486 100 Project # Internal Use Only [] Pickup XINTIAM 4 X GRAB COMB Fx# No NA: None N Collection 0600 0900 Time နို | ROB SCHUSTER 401-290-5483 ¥ Yes Ķ Cooler Temp: MIA 2 11/10/10 1011 rondence RC+D Contact Person Cooler Present relephone # Seals Intact Co. Name ESS LAB Sample # d 0

Please fax all changes to Chain of Custody in writing.

"By circling MA-MCP, client acknowledges samples were collected

in accordance with MADEP CAM VII A

1 (White) Lab Copy 2 (Yellow) Client Receipt

Darc/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

11.27 Dam Jime Date/Time

3

Received by (Signature)

Dare Time

Relinquished by: (Signature)

Received by (Signature)

Date/Time

Comments:

[] Technicians_

10/26/04 B

Relinquished by: (Signature)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Rob Schuster
RC & D
17 Gordon Avenue, Suite 204
Providence, RI 02905-1952

RE: Lincoln Lace (1006)

ESS Laboratory Work Order Number: 1011141

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011141

SAMPLE RECEIPT

The following samples were received on November 10, 2010 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1011141-01	1006Lopes-GFGrab02	Soil	6010B
1011141-02	1006Lopes-GFGrab03	Soil	6010B
1011141-03	1006Lopes-GFGrab04	Soil	6010B
1011141-04	1006Lopes-GFGrab05	Soil	6010B
1011141-05	1006Lopes-GFGrab06	Soil	6010B
1011141-06	1006Lopes-GFGrab07	Soil	6010B
1011141-07	1006-Read-TS02	Soil	6010B
1011141-08	1006-Read-TS03	Soil	6010B
1011141-09	1006-Read-TS04	Soil	6010B

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.

ESS Laboratory Work Order: 1011141



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab02

Date Sampled: 11/10/10 09:00

Percent Solids: 95

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-01

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.3)
 6010B
 7
 1
 SVD
 11/10/10 21:54
 2.29
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab03

Date Sampled: 11/10/10 09:00

Percent Solids: 93

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-02

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.4)
 6010B
 7
 1
 SVD
 11/10/10 21:59
 2.28
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab04

Date Sampled: 11/10/10 09:00

Percent Solids: 95

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-03

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.4)
 6010B
 7
 1
 SVD
 11/10/10 22:03
 2.22
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab05

Date Sampled: 11/10/10 09:00

Percent Solids: 95

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-04

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.1)
 6010B
 7
 1
 SVD
 11/10/10 22:07
 2.45
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab06

Date Sampled: 11/10/10 09:00

Percent Solids: 95

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-05

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.2)
 6010B
 7
 1
 SVD
 11/10/10 22:12
 2.35
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: 1006Lopes-GFGrab07

Date Sampled: 11/10/10 09:00

Percent Solids: 94

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-06

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI-RES DEC

Results (MRL) <u>DF</u> <u>I/V</u> F/V Batch **Analyte Method** Limit Analyst Analyzed 11/10/10 22:16 2.36 100 CK01016 ND (2.3) 6010B 7 SVD Arsenic



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS02 Date Sampled: 11/10/10 09:00

Percent Solids: 83

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-07

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.8)
 6010B
 7
 1
 SVD
 11/10/10 22:29
 2.12
 100
 CK01016

Quality

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS03 Date Sampled: 11/10/10 09:00

Percent Solids: 85

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-08

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI - RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.5)
 6010B
 7
 1
 SVD
 11/10/10 22:33 2.35 100 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: 1006-Read-TS04 Date Sampled: 11/10/10 09:00

Percent Solids: 85

ESS Laboratory Work Order: 1011141 ESS Laboratory Sample ID: 1011141-09

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI-RES DEC

 Analyte
 Results (MRL)
 Method
 Limit
 DF
 Analyst
 Analyzed
 I/V
 F/V
 Batch

 Arsenic
 ND (2.6)
 6010B
 7
 1
 SVD
 11/10/10 22:38 2.25
 100
 CK01016



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

ESS Laboratory Work Order: 1011141

Analyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifler
				 6000/7000 T		als					
Batch CX01016 - 3	1050B										
Nank		-							-		
Arsenic		ND	2.5	mg/kg wet							
.cs											
Arsenic .		98.0	8.6	mg/kg wet	109.0		90	80-120			
.CS Dup											
vsenic		101	8.8	mg/kg wet	109.0		93	80-120	3	20	
Ouplicate	Source: 1011141-09										
Arsenic		ND	2.4	mg/kg dry		ND				35	
Matrix Spike	Source: 1011141-09										
Arsenic		23.3	2.8	mg/kg dry	27. 75	ND	84	75-125			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011141

Notes and Definitions

U	Analyte included in the analysis, but not detected
ND	Analyte NOT DETECTED above the detection limit (LOD for DoD Reports)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
I/V	Initial Volume
F/V	Final Volume
Ş	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery

No Recovery NR LOD Limit of Detection [CALC] Calculated Analyte LOQ Limit of Quantitation DL**Detection Limit**

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace ESS Laboratory Work Order: 1011141

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

http://www.a2la.org/scopepdf/2864-01.pdf

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/labs/waterlabs-instate.php

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

> Maine Potable and Non Potable Water: RI0002 http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

> Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/labcert/labcert,aspx

New Hampshire (NELAP accredited) Potable and Non PotableWater, Solid and Hazardous Waste: 2424 http://www4.egov.nh.gov/des/nhelap/namesearch.asp

New York (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301 http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

South Carolina Volatile Organic Compounds in Potable Water: 78003

New Jersey Potable (VOA) and Non Potable Water (RCRA), Solids and Hazardous Waste: RI002 http://www.nj.gov/dep/oqa/certlabs.htm

Pensylvania Potable and Non Potable Water, Solid and Hazardous Waste: 68-01752 http://files.dep.state.pa.us/RegionalResources/Labs/LabsPortalFiles/2009-0911 accredited laboratories.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

http://www.A2LA.org/dirsearchnew/newsearch.cfm

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
http://www.cpsc.gov/cgi-bin/labapplist.aspx

Sample and Cooler Receipt Checklist

Client: RC and D
Client Project ID:
Shipped/Delivered Via:
Client

ESS Project ID: 10110141
Date Project Due: 11/11/10
Days For Project: 1 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved:	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	No
Cooler Temp: N/A		16. Are ESS labels on correct containers?	Yes No
Iced With: None		17. Were samples received intact?	Yes No
6. Was COC included with samples?	Yes	ESS Sample IDs:	
7. Was COC signed and dated by client?	Yes	Sub Lab:	_
8. Does the COC match the sample	Yes	Analysis:	
9. Is COC complete and correct?	Yes	TAT:	
18. Was there need to call project mana	ger to discu	uss status? If yes, please explain.	
Who was called?:		By whom?	

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative	
1	Yes	4 oz Soil Jar	1	NP	
ż	Yes	4 oz Soil Jar	1	NP	
_ 3	Yes	4 oz Soil Jar	1	NP	
4	Yes	4 oz Soil Jar	1	NP	
5	Yes	4 oz Soil Jar	1	NP	
6	Yes	4 oz Soil Jar	1	NP	
7	Yes	4 oz Soil Jar	1	NP	
8	Yes	4 oz Soil Jar	1 · ·	NP .	
9	Yes	4 oz Soil Jar	1 1 -	NP	
Completed By:	1 D' 1	Date/Time:/ Date/Time://	11/10/10		

CHAIN OF CUSTODY

If faster than 5 days, prior approval by laboratory is required

Size where samples were collected from:

PDFC Other

Format: Excel __ Access

Electronic Deliverable

Other

Reporting Limits

Division of Thielsch Engineering, Inc. 185 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 461-7181 Fax (401) 461-4486 ESS Laboratory www.esslaboratory.com

F-Filters GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes Circle and/orWrite Required Analysis METALS (13) MCP-METALS (13) ICTS-BCBY8 L)BN RCRAS TALZ3 £144 RCFA8 SVOA 8270 0/29 579 HVd 1808 mbinim PCB 608 8082 FCB 808 Perivides HWH! EbH P BYTP PPIG F Hd3 \$108 DRO 1100 Hall SO21 CBC) 8012 MAA 100A 100A **ም**29 Z\$25 Email Address whlock erendine of the sterest endine of the sterest Type of Containers 6 Containers Other 2 17 Gordon Ave, Suite 204 2200 USACE 1006 LOPES - GF GRABOZ Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water 1006 LOPES-GFGRABOS log LOPES - GFGRAB OH 100610PES-GFGRABOS 1006 LOPES - 6F GRAPB 06 Project Name (20 Char. or les) 1006LOPES-GF 6RAB OF Is this project for any of the following: MA-MCP Navy Sample Identification (20 Char. or los) 1006-PEAD-T503 lab READ-TSO4 1006-PEAD-7502 L'heoln 50680 2001 Fax # 01-270-5486 XDLIVA $\overline{\mathbf{x}}$ CEVE 4M00 State Collection Time 0400 Rob Schuster Telephone # 101-270-5483 10/10 Date Co. Name Providence 9 Sample # ESS LAB

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

50/28/04 B

1 (White) Lab Copy 2 (Yellow) Client Receipt

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Darc/Jime Date/Time

Received by: (Signature)

01:10 01/01 Date/Time

Preservation Code 1- NR 2- HC1, 3- HsOs, 4- HNOs, 5- NaOH, 6- McOH, 7- Asorbic Acid, 8- ZnAct, 9-

Sampled by: Michael Black

Internal Use Only

ž

Cooler Present

[] Pickup

No NA:

ŭ

Seals Intact

Comments:

[] Technicians_

Page 17 of 17

Relinquished by: (Signature)

inquished by (Signature)

Cooler Temp: DJP



EA Engineering, Science, and Technology, Inc. 2374 Post Road, Suite 102 Warwick, Rhode Island 02886 Telephone: (401) 736-3440

FAX: (401) 736-3423

EA Project No. 61891.05 PROVIDENCE, RHODE ISLAND

CONSTRUCTION SUBMITTAL APPROVAL

Submittal: 1006-09		

Description: Gravel Testing Results
Specification Section: 31 00 00

APPROVED AS NOTED	[]
APPROVED	[X]
REVISE AND RESUBMIT	[]
NOT APPROVED	1.1

Engineer's review and approval of this submittal are expressly limited as provided in the Contract Documents and are only to determine compliance with information given in Contract Documents and conformance with design concept of completed Project as a functioning whole. CONTRACTOR is, and ENGINEER is NOT, responsible for all matters relating to fabrication, shipping, handling, storage, assembly, and installation and construction, for all safety aspects of performing the Work, and for coordinating the Work.

Engineer:

Original signed by Stephen Curtis Mason, P.E.

Date: 10/29/10

The attached submittal is recommended for approval.

ENG FO	ENCLO	T		Submit		REMARKS				-	F	NO.	1		T.		SPECIFIC	2350 t	EA En	ioi			
ENG FORM 4025, OCT 99	ENCLOSURES RETURNED (List by Item No.)			Submitting gravel fill material as alternate material. Material passed analytical, did not pass the 1 inch sieve. Per speculation 85 - 100% passing 1 inch sieve, test results for material was 79.4% passing for 1 inch.		KS				Environmental Analysis of Borrow Materials (Gravel Fill)	b.	(Type, size, model number, etc.)	DESCRIPTION OF ITEM SUBMITTED		21 00 00	31 00 00	SPECIFICATION SECTION NO: (Cover only one section with each recommital)	2350 Post Road Warwick, RJ 02886	EA Engineering, Science, and Technology, Inc.		SECTION I - REQUEST F	MANUFACTURER'S CERTIFICATES OF COMPLIANCE. (Read instructions on reverse side prior to industing this form)	TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR
(ER 415-)-10)	NAME, TITLE AND S	SECTION I		passed analytical, did no aterial was 79.4% passin													PROJECT TITLE AND LOCATION:	Providence, RI 02905	RC&D, Inc.	FROM:	SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the Contractor)	to including this form)	YT DATA, MATERIAL S.
EDITION OF AUG 89 IS OBSOLETE	TITLE AND SIGNATURE OF APPROVING A	SECTION II - APPROVAL ACTION		t pass the 1 inch sieve. g for 1 inch.							ŗ.	(See instruction No. 8)	BROCHURE NO.	CURVE DRAWING OR	MFG, OR CONTR. CAT.		ON:		e 204		OLLOWING ITEMS (Thi		
SOLETE	AING AI			Per	I					-	P			COPIES	NO. OF					CONTRACT NO:	Section W		DATE:
	UTHORITY				de par efficience or	I certify that the				2.3.1	i,	PARA NO.	SPEC.	DOCUMENT	CONTRACT REFERENCE		Lincoln Lac			CI'NO:	all be initiated b	October 29, 2010	
Short _ 1_			NAME ANI	Most,	ecifications exe	shove submitted					,,	SHEET NO.	DRAWING	ENT	EFERENCE	I TOTAL LINE	z & Braid Si		_		y the Contract	10	
OF_I_	DAILE		NAME AND SIGNATURE OF CONTRACTOR		drawings and specifications except as otherwise stated.	I certify that the above submitted figure have been reviewed in				8	ģ.	,	USE CODE	CONTRACTOR	FOR	and the same of th	Lincoln Lace & Braid Site Remediation Project	TRANSMITTAL			Or)		TRANSMITTAL NO:
(Propusa			RACTOR	Matthew R Pion		1 ins					į.	,	No. 6)	(See instruction	VARIATION			L_	THIS IS A RESUBMITTAL OF	THIS IS A NEW TO ANSWITTAL		1000-09	
(Proposed CEMP-CE)				,-							ļ	- CODE	USE	B	FOR					_			



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: GF-1 Date Sampled: 10/06/10 15:00

Percent Solids: 99

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry

3050B/6000/7000 Total Metals

RI-RES DEC

Analyte	Results (MRL)	Method	Limit	<u>DF</u>	Analyst	Analyzed	I/V	F/V	Batch
Antimony	ND (4.9)	6010B	10	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Arsenic	ND (2.4)	6010B	7	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Beryllium	0.13 (0.10)	6010B	0.4	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Cadmium	ND (0.49)	6010B	39	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Chromium	3.0 (1.0)	6010B	1400	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Copper	2.8 (2.4)	6010B	3100	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Lead	ND (4.9)	6010B	150	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Mercury	ND (0.029)	7471A	23	1	SVD	10/13/10 11:47	0.7	40	CJ01218
Nickel	ND (2.4)	6010B	1000	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Selenium	ND (4.9)	6010B	390	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Silver	ND (0.49)	6010B	200	1	SVD	10/12/10 17:25	2.07	100	CJ01217
Thallium	ND (1.21)	7841	5.5	5	SVD	10/14/10 0:57	2.07	100	CJ01217
Zinc	6.8 (2.4)	6010B	6000	1	SVD	10/12/10 17:25	2.07	100	CJ01217



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: GF-1 Date Sampled: 10/06/10 15:00

Percent Solids: 99 Initial Volume: 20.2 Final Volume: 15

Benzene

Extraction Method: 5035

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

RI - RES DEC **Analyte** Results (MRL) **MDL** Limit <u>DF</u> Analyzed Batch <u>Sequence</u> 1,1,1,2-Tetrachloroethane 0.0066 ND (0.0760) 2.2 1 10/12/10 17:27 CTJ0075 CJ01224 1,1,1-Trichloroethane ND (0.0380) 0.0067 540 1 10/12/10 17:27 CTJ0075 CJ01224 1,1,2,2-Tetrachloroethane 0.0103 ND (0.0380) 1.3 1 10/12/10 17:27 CTJ0075 CJ01224 1,1,2-Trichloroethane 0.0095 3.6 ND (0.0380) 1 10/12/10 17:27 CTJ0075 CJ01224 1,1-Dichloroethane ND (0.0380) 0.0061 920 1 10/12/10 17:27 CTJ0075 CJ01224 1,1-Dichloroethene 0.0094 0.2 10/12/10 17:27 CTJ0075 ND (0.0380) CJ01224 1,1-Dichloropropene ND (0.0380) 0.0059 1 10/12/10 17:27 CTJ0075 CJ01224 1,2,3-Trichlorobenzene 0.0127 ND (0.0380) 10/12/10 17:27 CTJ0075 CJ01224 1 1,2,3-Trichloropropane 0.0094 ND (0.0380) 1 10/12/10 17:27 CTJ0075 CJ01224 1,2,4-Trichlorobenzene 0.0084 96 1 10/12/10 17:27 CTJ0075 ND (0.0380) CJ01224 1,2,4-Trimethylbenzene 0.0073 10/12/10 17:27 CTJ0075 ND (0.0380) CI01224 1,2-Dibromo-3-Chloropropane 10/12/10 17:27 ND (0.228) 0.0760 0.5 1 CTJ0075 CJ01224 1,2-Dibromoethane 0.0097 0.01 ND (0.0380) 1 10/12/10 17:27 CTJ0075 CJ01224 1,2-Dichlorobenzene 0.0054 510 10/12/10 17:27 CTJ0075 ND (0.0380) CJ01224 1,2-Dichloroethane ND (0.0380) 0.0102 0.9 1 10/12/10 17:27 CTJ0075 CJ01224 1,2-Dichloropropane 0.0100 1.9 10/12/10 17:27 ND (0.0380) 1 CTJ0075 CJ01224 1,3,5-Trimethylbenzene ND (0.0380) 0.0067 10/12/10 17:27 CTJ0075 CJ01224 1,3-Dichlorobenzene 0.0048 ND (0.0380) 430 1 10/12/10 17:27 CTJ0075 CJ01224 1,3-Dichloropropane 0.0085 10/12/10 17:27 CTJ0075 ND (0.0380) 1 CI01224 1,4-Dichlorobenzene 0.0101 27 1 10/12/10 17:27 CTJ0075 ND (0.0380) CJ01224 1,4-Dioxane - Screen ND (3.80) 1.27 1 10/12/10 17:27 CTJ0075 CJ01224 1-Chlorohexane ND (0.0380) 0.0072 10/12/10 17:27 CTJ0075 CJ01224 2,2-Dichloropropane 0.0130 10/12/10 17:27 1 CTJ0075 CJ01224 ND (0.0760) 2-Butanone ND (0.950) 0.220 10000 1 10/12/10 17:27 CTJ0075 CJ01224 2-Chlorotoluene ND (0.0380) 0.0107 1 10/12/10 17:27 CTJ0075 CJ01224 2-Hexanone ND (0.380) 0.0655 1 10/12/10 17:27 CTJ0075 CJ01224 4-Chlorotoluene 0.0049 10/12/10 17:27 CTJ0075 CJ01224 ND (0.0380) 1 4-Isopropyltoluene 0.0068 1 ND (0.0380) 10/12/10 17:27 CTJ0075 CJ01224 4-Methyl-2-Pentanone ND (0.380) 0.0458 1200 1 10/12/10 17:27 CTJ0075 CJ01224 Acetone 0.281 7800 1 10/12/10 17:27 CTJ0075 CJ01224 ND (0.950)

ND (0.0380)

I

10/12/10 17:27

CTJ0075

0.0062

2.5

CJ01224



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: GF-1 Date Sampled: 10/06/10 15:00

Percent Solids: Initial Volume: 20.2

Extraction Method: 5035

Final Volume: 15

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

			RI - RES D	EC			
Analyte	Results (MRL)	<u>MDL</u>	<u>Limit</u>	DF	Analyzed	Sequence	Batch
Bromobenzene	ND (0.0380)	0.0104		1	10/12/10 17:27	CTJ0075	CJ01224
Bromochloromethane	ND (0.0380)	0.0123		1	10/12/10 17:27	CTJ0075	CJ01224
Bromodichloromethane	ND (0.0380)	0.0052	10	1	10/12/10 17:27	CTJ0075	CJ01224
Bromoform	ND (0.0380)	0.0109	81	1	10/12/10 17:27	CTJ0075	CJ01224
Bromomethane	ND (0.0760)	0.0254	0.8	1	10/12/10 17:27	CTJ0075	CJ01224
Carbon Disulfide	ND (0.0380)	0.0056		I	10/12/10 17:27	CTJ0075	CJ01224
Carbon Tetrachloride	ND (0.0380)	0.0066	1.5	1	10/12/10 17:27	CTJ0075	CJ01224
Chlorobenzene	ND (0.0380)	0.0060	210	1	10/12/10 17:27	CTJ0075	CJ01224
Chloroethane	ND (0.0760)	0.0253		1	10/12/10 17:27	CTJ0075	CJ01224
Chloroform	ND (0.0380)	0.0078	1.2	1	10/12/10 17:27	CTJ0075	CJ01224
Chloromethane	ND (0.0760)	0.0097		1	10/12/10 17:27	CTJ0075	CJ01224
cis-1,2-Dichloroethene	ND (0.0380)	0.0094	630	1	10/12/10 17:27	CTJ0075	CJ01224
cis-1,3-Dichloropropene	ND (0.0380)	0.0086		1	10/12/10 17:27	CTJ0075	CJ01224
Dibromochloromethane	ND (0.0380)	0.0096	7.6	1	10/12/10 17:27	CTJ0075	CJ01224
Dibromomethane	ND (0.0380)	0.0120		1	10/12/10 17:27	CTJ0075	CJ01224
Dichlorodifluoromethane	ND (0.0380)	0.0066		1	10/12/10 17:27	CTJ0075	CJ01224
Diethyl Ether	ND (0.0380)	0.0097		1	10/12/10 17:27	CTJ0075	CJ01224
Di-isopropyl ether	ND (0.0380)	0.0071		1	10/12/10 17:27	CTJ0075	CJ01224
Ethyl tertiary-butyl ether	ND (0.0380)	0.0096		1	10/12/10 17:27	CTJ0075	CJ01224
Ethylbenzene	ND (0.0380)	0.0049	71	1	10/12/10 17:27	CTJ0075	CJ01224
Hexachlorobutadiene	ND (0.0380)	0.0127	8.2	1	10/12/10 17:27	CTJ0075	CJ01224
Isopropylbenzene	ND (0.0380)	0.0067	27	1	10/12/10 17:27	CTJ0075	CJ01224
Methyl tert-Butyl Ether	ND (0.0380)	0.0061	390	1	10/12/10 17:27	CTJ0075	CJ01224
Methylene Chloride	ND (0.190)	0.0100	45	1	10/12/10 17:27	CTJ0075	CJ01224
Naphthalene	ND (0.0380)	0.0100	54	1	10/12/10 17:27	CTJ0075	CJ01224
n-Butylbenzene	ND (0.0380)	0.0094		1	10/12/10 17:27	CTJ0075	CJ01224
n-Propylbenzene	ND (0.0380)	0.0093		1	10/12/10 17:27	CTJ0075	CJ01224
sec-Butylbenzene	ND (0.0380)	0.0051		1	10/12/10 17:27	CTJ0075	CJ01224
Styrene	ND (0.0380)	0,0050	13	1	10/12/10 17:27	CTJ0075	CJ01224
tert-Butylbenzene	ND (0.0380)	0.0089		1	10/12/10 17:27	CTJ0075	CJ01224
Tertiary-amyl methyl ether	ND (0.0380)	0.0055		1	10/12/10 17:27	CTJ0075	CJ01224



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: GF-1

Date Sampled: 10/06/10 15:00

Percent Solids:

99

Initial Volume: 20.2 Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry Analyst: MD

5035/8260B Volatile Organic Compounds / Methanol

			•
	P7		

<u>Analyte</u>	Results (MRL)	<u>MDL</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	Batch
Tetrachloroethene	ND (0.0380)	0.0127	12	1	10/12/10 17:27	CTJ0075	CJ01224
Tetrahydrofuran	ND (0.380)	0.0981		1	10/12/10 17:27	CTJ0075	CJ01224
Toluene	ND (0.0380)	0.0097	190	1	10/12/10 17:27	CTJ0075	CJ01224
trans-1,2-Dichloroethene	ND (0.0380)	0.0125	1100	1	10/12/10 17:27	CTJ0075	CJ01224
trans-1,3-Dichloropropene	ND (0.0380)	0.0117		1	10/12/10 17:27	CTJ0075	CJ01224
Trichloroethene	ND (0.0380)	0.0078	13	1	10/12/10 17:27	CTJ0075	CJ01224
Trichlorofluoromethane	ND (0.0380)	0.0100		1	10/12/10 17:27	CTJ0075	CJ01224
Vinyl Acetate	ND (0.190)	0.0078		1	10/12/10 17:27	CTJ0075	CJ01224
Vinyl Chloride	ND (0.0380)	0.0125	0.02	1	10/12/10 17:27	CTJ0075	CJ01224
Xylene O	ND (0.0380)	0.0073	110	1	10/12/10 17:27	CTJ0075	CJ01224
Xylene P,M	ND (0.0760)	0.0147	110	i	10/12/10 17:27	CTJ0075	CJ01224
Xylenes (Total)	ND (0.114)		110	1	10/12/10 17:27		[CALC]

	%Recovery	Qualifier	<i>Limits</i>
Surrogate: 1,2-Dichlaroethane-d4	91 %		70-130
Surrogate: 4-Bromofluorobenzene	88 %		70-130
Surrogate: Dibromofluoromethane	107 %		70-130
Surrogate: Toluene-d8	84 %		70-130



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: GF-1

Date Sampled: 10/06/10 15:00

Percent Solids:

99

Initial Volume: 19.9 Final Volume: 1

Extraction Method: 3546

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry

Analyst: ML Prepared: 10/13/10 15:45

8100M Total Petroleum Hydrocarbons

			RI - RES D	EC			
Analyte Total Petroleum Hydrocarbons	Results (MRL) ND (38.1)		<u>Limit</u> 500	<u>DF</u>	<u>Analyzed</u> 10/13/10 19:00	Sequence CTJ0094	Batch CJ01225
	%Recovery	Qualifier	Limits				
Surrogate: O-Terphenyl	124 %		40-140				



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: GF-1

Date Sampled: 10/06/10 15:00

Percent Solids: Initial Volume: 15 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 10/13/10 15:45

8270C Semi-Volatile Organic Compounds

		RI - RES D	EC	
Analyte 1,1-Biphenyl	Results (MRL) ND (0.336)	<u>Limit</u> 0.8	<u>DF</u>	Analyzed Sequence Batch CTJ0127 CJ01322
1,2,4-Trichlorobenzene	ND (0.336)	96	1	10/19/10 3:40 CTJ0127 CJ01322
1,2-Dichlorobenzene	ND (0.336)	510	1	10/19/10 3:40 CTJ0127 CJ01322
1,3-Dichlorobenzene	ND (0.336)	430	1	10/19/10 3:40 CTJ0127 CJ01322
1,4-Dichlorobenzene	ND (0.336)	27	1	10/19/10 3:40 CTJ0127 CJ01322
2,3,4,6-Tetrachlorophenol	ND (1.69)		1	10/19/10 3:40 CTJ0127 CJ01322
2,4,5-Trichlorophenol	ND (0.336)	330	1	10/19/10 3:40 CTJ0127 CJ01322
2,4,6-Trichlorophenol	ND (0.336)	58	1	10/19/10 3:40 CTJ0127 CJ01322
2,4-Dichlorophenol	ND (0.336)	30	1	10/19/10 3:40 CTJ0127 CJ01322
2,4-Dimethylphenol	ND (0.336)	1400	1	10/19/10 3:40 CTJ0127 CJ01322
2,4-Dinitrophenol	ND (1.69)	160	1	10/19/10 3:40 CTJ0127 CJ01322
2,4-Dinitrotoluene	ND (0.336)	0.9	1	10/19/10 3:40 CTJ0127 CJ01322
2,6-Dinitrotoluene	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
2-Chloronaphthalene	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
2-Chlorophenol	ND (0.336)	50	1	10/19/10 3:40 CTJ0127 CJ01322
2-Methylnaphthalene	ND (0.336)	123	1	10/19/10 3:40 CTJ0127 CJ01322
2-Methylphenol	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
2-Nitroaniline	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
2-Nitrophenol	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
3,3'-Dichlorobenzidine	ND (0.674)	1.4	1	10/19/10 3:40 CTJ0127 CJ01322
3+4-Methylphenol	ND (0.674)		1	10/19/10 3:40 CTJ0127 CJ01322
3-Nitroaniline	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
4,6-Dinitro-2-Methylphenol	ND (1.69)		1	10/19/10 3:40 CTJ0127 CJ01322
4-Bromophenyl-phenylether	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
4-Chloro-3-Methylphenol	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
4-Chloroaniline	ND (0.674)	310	1	10/19/10 3:40 CTJ0127 CJ01322
4-Chloro-phenyl-phenyl ether	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
4-Nitroaniline	ND (0.336)		1	10/19/10 3:40 CTJ0127 CJ01322
4-Nitrophenol	ND (1.69)		1	10/19/10 3:40 CTJ0127 CJ01322
Acenaphthene	ND (0.336)	43	1	10/19/10 3:40 CTJ0127 CJ01322
Acenaphthylene	ND (0.336)	23	1	10/19/10 3:40 CTJ0127 CJ01322



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace Client Sample ID: GF-1

Date Sampled: 10/06/10 15:00

Percent Solids: Initial Volume: 15 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry Analyst: IBM

Prepared: 10/13/10 15:45

8270C Semi-Volatile Organic Compounds

RI - RES DEC

Results (MRL) ND (0.674)	<u>Limit</u>	DF	<u>Analyzed</u> Sequence 10/19/10 3:40 CTJ0127	Batch CJ01322
ND (0.674)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	35	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.9	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.169)	0.4	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.9	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.8	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.9	1	10/19/10 3:40 CTJ0127	CJ01322
ND (1.69)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		l	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.6	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	9.1	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	46	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.169)	0.4	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.169)	0.4	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	340	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	1900	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	20	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	28	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.169)	0.4	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	8.2	1	10/19/10 3:40 CTJ0127	CJ01322
ND (1.69)		1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	46	1	10/19/10 3:40 CTJ0127	CJ01322
ND (0.336)	0.9	1	10/19/10 3:40 CTJ0127	CJ01322
	ND (0.674) ND (0.674) ND (0.336) ND (0.169) ND (0.169) ND (0.336)	ND (0.674) ND (0.674) ND (0.336)	ND (0.674) ND (0.674) ND (0.674) ND (0.336)	ND (0.674)



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: RC & D

Client Project ID: Lincoln Lace

Client Sample ID: GF-1

Date Sampled: 10/06/10 15:00

Percent Solids:

Initial Volume: 15 Final Volume: 0.5

Extraction Method: 3546

ESS Laboratory Work Order: 1010106 ESS Laboratory Sample ID: 1010106-01

Sample Matrix: Soil Units: mg/kg dry

Analyst: IBM

Prepared: 10/13/10 15:45

8270C Semi-Volatile Organic Compounds

RI -	RES	DEC
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	KI - KES DI			
Results (MRL)	<u>Limit</u>	<u>DF</u>	Analyzed Sequence	e Batch
ND (0.336)		1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)	54	1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)		1	10/19/10 3:40 CTJ012	7 CJ01322
ND (1.69)	5.3	1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)	40	1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)	6000	1	10/19/10 3:40 CTJ012	7 CJ01322
ND (0.336)	13	1	10/19/10 3:40 CTJ012	7 CJ01322
ND (1.69)		1	10/19/10 3:40 CTJ012	7 CJ01322
	ND (0.336) ND (0.336) ND (0.336) ND (0.336) ND (0.336) ND (0.336) ND (1.69) ND (0.336) ND (0.336) ND (0.336)	Results (MRL) Limit ND (0.336) 54 ND (0.336) 55 ND (1.69) 55 ND (0.336) 40 ND (0.336) 6000 ND (0.336) 13	Results (MRL) Limit DF ND (0.336) 1 ND (0.336) 54 1 ND (0.336) 40 ND (0.336) 40 ND (0.336) 6000 ND (0.336) 13	Results (MRL) Limit DF Analyzed Sequence ND (0.336) 1 10/19/10 3:40 CTJ0127 ND (0.336) 54 1 10/19/10 3:40 CTJ0127 ND (0.336) 1 10/19/10 3:40 CTJ0127 ND (0.336) 1 10/19/10 3:40 CTJ0127 ND (0.336) 1 10/19/10 3:40 CTJ0127 ND (1.69) 5.3 1 10/19/10 3:40 CTJ0127 ND (0.336) 40 1 10/19/10 3:40 CTJ0127 ND (0.336) 6000 1 10/19/10 3:40 CTJ0127 ND (0.336) 13 1 10/19/10 3:40 CTJ0127

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	69 %		30-130
Surrogate: 2,4,6-Tribromophenol	82 %		30-130
Surrogate: 2-Chlorophenol-d4	69 %		30-130
Surrogate: 2-Fluorobiphenyl	<i>7</i> 9 %		30-130
Surrogate: 2-Fluorophenol	64 %		30-130
Surrogate: Nitrobenzene-d5	70 %		30-130
Surragate: Phenol-d6	71 %		30-130
Surrogate: p-Terphenyl-d14	106 %		30-130

THIELSCH ENGINEERING, INC

Sieve Analysis Test Report

Client: **ESS Laboratory** Project:

1010368

ESS Sample # 1010368-01 Client I.D.: 1010368-01

Date:

10/27/2010

T.E.I. Project #

74-10-0002-1

ESS Project #

1010368 1010368-01

TEI Report # Lab Tech:

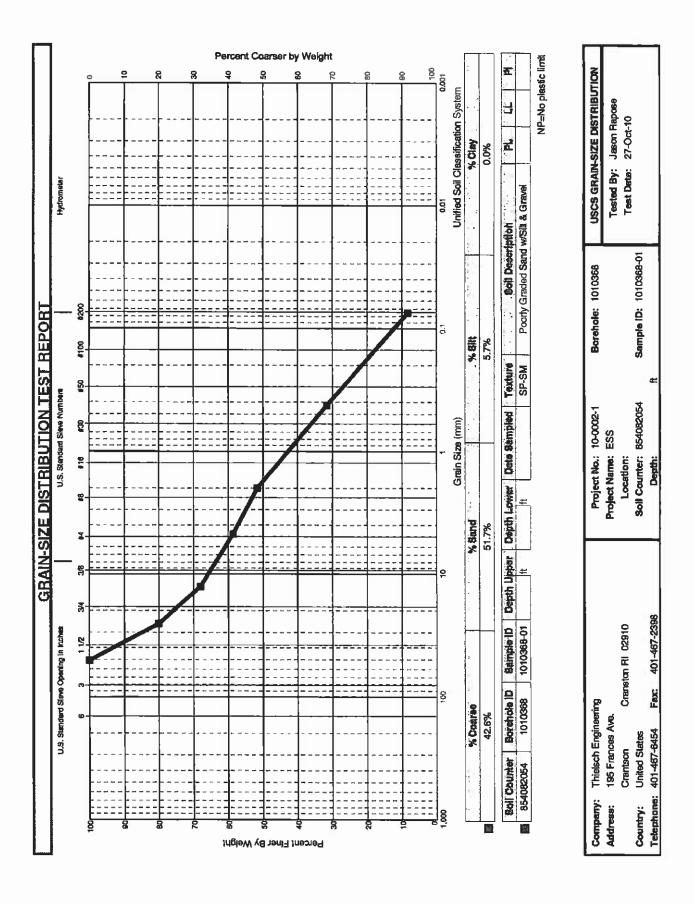
JR

Total Moisture Content by Drying (D2216)				
Wet Mass (W):	1046.0			
Original Dry Mass (D):	1018.5			
Moisture Loss (W - D):	27.5			
% Moisture (100 x (W - D) / D):	2.7			

Materials Finer than 75 µm Sieve by Washing (C117)				
Dry Mass after wash (Dw):				
Mass of fines lost by wash (D - Dw):	0.0			
% -75 µm Sieve (100 x (D - Dw)/D):				

		Sieve Analy	sls of Fine an	d Coarse A	ggregates (C	136 /C117)		
	Mass per	er Sieve % Retained per Sieve			% Pas	sing	Spec	Hication %
Sieve	Unweshed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
						_		
2 1/2"	0.0		0.0		100.0			
2"	0.0		0.0		100.0			
1#	210.0		20.6		79.4			
1/2"	335.5		32.9		67.1		<u></u>	
#4	433.5		42.6		57.4			
#10	506.5		49.7		50.3			
#40	716.0		70.3		29.7			
#200	960.0		94.3		5.7			
Pan	1018.5		100.0				No	▼ .
Sub Total	1018.5							
oss on Was	sh (D - Dw)	0.0						
Total	1018.5							

_	
Comments: USCS Classification: (SP-SM) Poorly (Graded Sand w/Silt & Gravel
Windshiff	They of T
Verity Wendy Kerkhoff	Reviewed by: Henry J. Soares III, P.E.
NICET Level II Cert. # 123706	QA/QC Manager
Date: 10/27/2010	Date: 10/27/2010
Results Within Specification Limits:	Results Outside Specification Limits:



Appendix F Inspection Log Forms

EA Representative Z	Signature
Date	Weather/Temperature 55°F CLONG

Items to Check		Items to Check	
Hard Hats & Steel Toe Boots		Engineered cap conditions	11/-1
Contractor Equipment (leaks, etc)	5	Exposed Excavations	5
Erosion Control Conditions	Ü	Stockpile Conditions	5
All Stabilized Construction Entrances	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Storage Areas	-5
Vegetation and Field Conditions	5	Dust Controls	AND AL
Quantities of Materials in Use		Condition of Materials Delivered	S
_	L		

*S = Satisfactory

U = Unsatisfactory

N/A = Not Applicable

Work Day Observations (attach additional sheets as needed):

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SF 1266. RETARK REMOVING
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EA Representative Paw+ FB	<u>\</u> S	ignature L. W. V. D.	<u> </u>
Date_\\\5\10	V	Veather/Temperature	-50°F
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Items to Check		Items to Check	
Hard Hats & Steel Toe Boots	3	Engineered cap conditions	SNA
Contractor Equipment (leaks, etc)	5	Exposed Excavations	5
Erosion Control Conditions	5	Stockpile Conditions	<i>S</i>
All Stabilized Construction Entrances	NO 5	Storage Areas	S
Vegetation and Field Conditions	5	Dust Controls	ح
Quantities of Materials in Use	5	Condition of Materials Delivered	S
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*S = Satisfactory	U = Unsa	tisfactory $N/A = Not Ap_1$	plicable
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- SHOULD FWISH	CAP (SUKLEWAY TODAY	4
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EA Representative Ram Date 11/8/10	-	ignature	<u></u>	
Items to Check		Items to Check	ser.	
Hard Hats & Steel Toe Boots	<u>S</u>	Engineered cap conditions	· S	
Contractor Equipment (leaks, etc)	5	Exposed Excavations	3	
Erosion Control Conditions	S	Stockpile Conditions	5	
All Stabilized Construction Entrances	5	Storage Areas	L	
Vegetation and Field Conditions	5	Dust Controls	5	
Quantities of Materials in Use	5	Condition of Materials Delivered	کـ	
Work Day Observations (attach addition	*S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed):			
	_	HOW INSTRUCTED TO		
	EGET	AND PLANT AROUND ATTON REMOVED LED IN (SZ	<u>\(\tau \)</u>	

EA Representative Part San		signature Ello (de	
Date 11/10/10	V	Veather/Te mp erature <u>(00°F</u>	
Items to Check	<u></u>	Items to Check	
Hard Hats & Steel Toe Boots	S S	Engineered cap conditions	\leq
Contractor Equipment (leaks, etc)	\$	Exposed Excavations	S
Erosion Control Conditions	5	Stockpile Conditions	5
All Stabilized Construction Entrances	S	Storage Areas	2 2 5 5
Vegetation and Field Conditions	<u>S</u>	Dust Controls	5
Quantities of Materials in Use	5	Condition of Materials Delivered	\leq
*S = Satisfactory	U = Unsa	tisfactory $N/A = Not App$	olicable
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Work Day Observations (attach addition	nai sneets a	is needed):	
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-> INSTALLED FIR	c 	CHEV DAM (10000)	¬^ \
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Engineered Cap Inspection Checklist

EA Representative Par	_ Si	gnature CO	ck
Date 11 12 10	W	eather/Temperature CLEAR	
,			
Items to Check		Items to Check	
Hard Hats & Steel Toe Boots	5	Engineered cap conditions	<u>.</u> .2
Contractor Equipment (leaks, etc)	S	Exposed Excavations	S
Erosion Control Conditions	5	Stockpile Conditions	<u> </u>
All Stabilized Construction Entrances	5	Storage Areas	2
Vegetation and Field Conditions	5	Dust Controls	S
Quantities of Materials in Use	S	Condition of Materials Delivered	S
		- 	
*S = Satisfactory	U = Unsat	is factory $N/A = Not App$	olicable
Work Day Observations (attach addition		,	Ч
> CAPPING OPERA	7407	CONTINUE	
	-		

Items to Check	EA Representative PGW Date 115/10		Signature Veather/Temperature	<u> </u>
Hard Hats & Steel Toe Boots Contractor Equipment (leaks, etc) Erosion Control Conditions All Stabilized Construction Entrances Vegetation and Field Conditions Quantities of Materials in Use *S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed): *S = Satisfactory Theorem Theorem Cappe In Each Day Fact Day Hard Hats & Steel Toe Boots Engineered cap conditions S Exposed Excavations S Exposed Excavations S Conditions S Conditions S Conditions N/A = Not Applicable Theorem Theorem Cappe In Each Day Theorem T	Items to Check		Items to Check	
Erosion Control Conditions All Stabilized Construction Entrances Vegetation and Field Conditions Quantities of Materials in Use *S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed): There was the way of	Hard Hats & Steel Toe Boots	5		5
Erosion Control Conditions All Stabilized Construction Entrances Vegetation and Field Conditions Quantities of Materials in Use *S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed): Therefore Th	Contractor Equipment (leaks, etc)	2		.5:
Vegetation and Field Conditions Quantities of Materials in Use *S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed): *S = Satisfactory There From NG There att Carry There attach additional sheets as needed.	Erosion Control Conditions	2		5
*S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed):	All Stabilized Construction Entrances	S		2
*S = Satisfactory U = Unsatisfactory N/A = Not Applicable Work Day Observations (attach additional sheets as needed):	Vegetation and Field Conditions	Ş	Dust Controls	2
Work Day Observations (attach additional sheets as needed):	Quantities of Materials in Use	5	Condition of Materials Delivered	S
Work Day Observations (attach additional sheets as needed):				
Work Day Observations (attach additional sheets as needed):				
	-> Swiceward Com	PLETE	S-VERY LITTLE FL	ON DAM

EA Representative 24W Date 11/17/10	Signature DU CLE STR -	-
Items to Check	Items to Check	
Hard Hats & Steel Toe Boots	Engineered cap conditions	
Contractor Equipment (leaks, etc)	Exposed Excavations	·
Erosion Control Conditions All Stabilized Construction Entrances	Stockpile Conditions	
	Storage Areas	
Vegetation and Field Conditions Quantities of Materials in Use	Dust Controls Condition of Materials Duliness	
Quantities of iviaterials in Ose	Condition of Materials Delivered	
	enal sheets as needed): DON ACENT L ED RC+D TO REMOVE	<u> </u>
	PATH + CENTER POR	ED.

Engineer	ed Cap Ins	pection Checklist	
EA Representative Plate	_ S	ignature PM C	7
Date 1 19 (10		Veather/Temperature Custor -	
Items to Check		Items to Check	
Hard Hats & Steel Toe Boots	S S S	Engineered cap conditions	2
Contractor Equipment (leaks, etc)	S	Exposed Excavations	2
Erosion Control Conditions	S	Stockpile Conditions	2
All Stabilized Construction Entrances	2	Storage Areas	2
Vegetation and Field Conditions		Dust Controls	2
Quantities of Materials in Use	3	Condition of Materials Delivered	2
	<u></u>		
*S = Satisfactory Work Day Observations (attach addition		tisfactory $N/A = Not App$ as needed):	
Work Day Observations (attach addition PIDEM ON S PEMENATION ES	nal sheets a	is needed):	<u>~~</u>
Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	
Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	<u> </u>
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Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	<u> </u>
Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	<u> </u>
Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	<u> </u>
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Work Day Observations (attach additions) PIDEM ON S PEULENATION ES S CONTINUANCE OF	nal sheets a	APPING (ENTRAL	<u> </u>

Engineered Cap Inspection Checklist

EA Representative RGW		Signature PU ble	_
Date 1 22 (10		Weather/Temperature_wereAST =	
, .			
Items to Check		Items to Check	
Hard Hats & Steel Toe Boots	.S	Engineered cap conditions	7
Contractor Equipment (leaks, etc)	کہ	Exposed Excavations	
Erosion Control Conditions	کـ	Stockpile Conditions	5000
All Stabilized Construction Entrances	5	Storage Areas	7.
Vegetation and Field Conditions	<i>S</i>	Dust Controls	Z
Quantities of Materials in Use	ی	Condition of Materials Delivered	2
*S = Satisfactory Work Day Observations (attach addition Sometimes Received Rece	nal sheets	,	
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S COMPAT BEING	1 M	INED INTO TOPSOIL	<u>-</u>
CH SITE	, <u> </u>		
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EA Representative Zau	_ s	ignature DU H	<u> </u>
Date 1 23 10	V	Veather/Temperature	AST -
Items to Check		Items to Check	
Hard Hats & Steel Toe Boots		Engineered cap conditions	
Contractor Equipment (leaks, etc)		Exposed Excavations	<u> </u>
Erosion Control Conditions	>	Stockpile Conditions	<u> </u>
All Stabilized Construction Entrances	S	Storage Areas	
Vegetation and Field Conditions		Dust Controls	2
Quantities of Materials in Use	5	Condition of Materials Deliver	ed <u>S</u>
*S = Satisfactory	U = Unsa	tisfactory $N/A = Nc$	ot Applicable
Week Day Observations (ettech addition			
Work Day Observations (attach addition	nai sneets a	is needed):	
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EA Representative Lux MASON	_ s	Signature	
Date 11/30/2010	V	Veather/Temperature Soury / 3	5°F
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Items to Check	<u> </u>	Items to Check	Γ.
Hard Hats & Steel Toe Boots	4	Engineered cap conditions	5
Contractor Equipment (leaks, etc)	JIN	Exposed Excavations	_S
Erosion Control Conditions	3	Stockpile Conditions	5
All Stabilized Construction Entrances	5	Storage Areas	3
Vegetation and Field Conditions	NA	Dust Controls	5 5
Quantities of Materials in Use	5	Condition of Materials Delivered	N/a
*S = Satisfactory	U = Unsa	Itisfactory $N/A = Not App$	l dicable
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Work Day Observations (attach addition	nal abasts d	oo maadad).	
work Day Observations (attach addition	nai sneets a	is needed):	
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Construction Oversight
Engineered Cap Inspection Checklist

EA Representative RAW	_ Si	gnature 251 Mell	
Date 12/3/10	W	'eather/Temperature	
•			
Items to Check		Items to Check	-
Hard Hats & Steel Toe Boots	5	Engineered cap conditions	2
Contractor Equipment (leaks, etc)	2	Exposed Excavations	5
Erosion Control Conditions	5	Stockpile Conditions	2
All Stabilized Construction Entrances	Ş	Storage Areas	ک 2- ک
Vegetation and Field Conditions	2	Dust Controls	
Quantities of Materials in Use		Condition of Materials Delivered	2
*S = Satisfactory	U = Unsat	isfactory $N/A = Not App$	licable
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Work Day Observations (attach addition	iai siieets a	s fleeded).	
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Engineered Cap Inspection Checklist

EA Representative	Ran
1.1	• -

Date 4 28/1

Signature

Weather/Temperature

Items to Check		Items to Check	
Hard Hats & Steel Toe Boots	4/4	Engineered cap conditions	U
Contractor Equipment (leaks, etc)	Š	Exposed Excavations	NA
Erosion Control Conditions	5	Stockpile Conditions	NA
All Stabilized Construction Entrances	5	Storage Areas	Š
Vegetation and Field Conditions	5	Dust Controls	NA
Quantities of Materials in Use	<u> </u>	Condition of Materials Delivered	S

^{*}S = Satisfactory

U = Unsatisfactory

N/A = Not Applicable

Work Day Observations (attach additional sheets as needed):

- WEET PC+D AND RIDEM ONSITE
MITHTING PLANTINGS TODAY
- OBSERVED WASHING RESULTANT FROM
DRAW PIPE ON UP LAND AREA
- EA RECOMENDED PIPRAP, PIDEM AGREED
- OBSERVED STHER WASHOUTS ACROSS SITE
- OBSERVED KNOT WEED GROWN OF AROUND
TREES IN GRAVELLED AREAS
- PC+D STATES WENLD PROVIDE COST FOR
MATTERIALS ONUL FOR RIPPAP WOTALLATION

Engineered Cap Inspection Checklist

EA Representative P. CHASE BERNIER	Signature / Colores
Date 29 Apr. 2011	Weather/Temperature Swy, 70-6

Items to Check	Items to Check	
Hard Hats & Steel Toe Boots	Engineered cap conditions	•
Contractor Equipment (leaks, etc)	Exposed Excavations	
Erosion Control Conditions	Stockpile Conditions	
All Stabilized Construction Entrances	Storage Areas	
Vegetation and Field Conditions	Dust Controls	
Quantities of Materials in Use	Condition of Materials Delivered	

*S = Satisfactory

U = Unsatisfactory

N/A = Not Applicable

Work Day Observations (attach additional sheets as needed):

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Appendix G

Photograph Log



 ${\bf Photograph~No.~1} \\ {\bf Clearing/grubbing~along~the~former~sluiceway~in~the~southern~portion~of~the~site~(10/22/10)}.$



Photograph No. 2 Removal of debris for offsite disposal during clearing/grubbing phase (10/25/10).



Photograph No. 3 Erosion control along the Woonasquatucket River in the eastern portion of the site (10/25/10).



Photograph No. 4 Clearing/grubbing the central portion of the site (10/25/10).



Photograph No. 5 Northeasterly view of the site with clearing of a concrete slab (10/29/10).



 $\label{eq:Photograph No. 6} Photograph No. 6$ Clearing the site adjacent to the sluiceway in the southern portion of the site (11/3/10).



Photograph No. 7 Installation of geotextile over geogrid in the sluiceway (11/5/10).



Photograph No. 8 Installation of crushed stone over the geotextile in the sluiceway (11/5/10).

Page 5 of 16



Photograph No. 9 Excavation for the proposed bike path along the Woonasquatucket River in the northeastern portion of the site (11/5/10).



Excavation for the proposed bike path along the Woonasquatucket River in the northern portion of the site (11/8/10).



Photograph No. 11 Installation of geotextile fabric in the southern portion of the site (11/10/10).





Photograph No. 13 Engineered barrier around mature trees left in place (11/10/10).





Photograph No. 15 Installation of check-dams in the downstream portion of the sluiceway (11/15/10).



Photograph No. 16 Installation of fill material over geotextile in the northern portion of the site (11/17/10).



Photograph No. 17 Fill material over geotextile in the southeastern portion of the site adjacent to the sluiceway (11/17/10).



Photograph No. 18 Installation of fill material over geotextile in the central portion of the site (11/19/10).



Photograph No. 19Northeasterly view of the site (11/22/10).



Photograph No. 20 Installation of loam over fill material (11/22/10).



Photograph No. 21 Engineered barrier in eastern portion of the site (11/23/10).



Photograph No. 22 Installation of loam and fill material (11/23/10).



Photograph No. 23 Installation of geotextile in the western-central portion of the site (12/3/10).



Photograph No. 24 Hydroseeded eastern portion of the site (12/3/10).



Photograph No. 25 Hydroseeding the central portion of the site (12/8/10).



Photograph No. 26 Landscaping the site (4/28/11).



Photograph No. 27Plantings in southeasterly portion of the site adjacent to the sluiceway (5/2/11).



Photograph No. 28 The upstream extent of the sluiceway in the southern portion of the site (5/5/11).



Photograph No. 29Plantings in the northern portion of the site along the Woonasquatucket River (5/5/11).



Photograph No. 30 Mulched landscaping along the proposed bike path (5/6/11).



Photograph No. 31 Easterly view of the site (4/26/12).



Photograph No. 32
Aerial view of the site (north oriented toward top of page).

Appendix H

Environmental Land Usage Restriction/ Soil Management Plan

ENVIRONMENTAL LAND USAGE RESTRICTION

This Declaration of Environmental	Land 1	Usage R	estrict	tion ((.Restriction	on.) is m	ade on this	
day of,	20	by the	City o	of Pr	rovidence,	and its	successors	and/or
assigns (hereinafter, the "Grantor")	١.							

WITNESSETH:

WHEREAS, the Grantor, The City of Providence, is the owner in fee simple of certain real property identified as Plat 113, Lots 305 and 429 Rhode Island (the "Property"), more particularly described in Exhibit A (Legal Description) which is attached hereto and made a part hereof;

WHEREAS, the Property (or portion thereof identified in the Class I survey which is attached hereto as Exhibit 2A and is made a part hereof) has been determined to contain soil and/or groundwater which is contaminated with certain hazardous materials and petroleum in excess of applicable residential direct exposure criteria pursuant to the <u>Rules and Regulations for</u> the Investigation and Remediation of Hazardous Material Releases ("Remediation Regulations");

WHEREAS, the Grantor and the Department have determined that the environmental land use restrictions set forth below are consistent with the regulations adopted by the Rhode Island Department of Environmental Management ("Department") pursuant to R.I.G.L. § 23-19.14-1 and that this restriction shall be a Conservation Restriction pursuant to R.I.G.L. § 34-39-1 et. seq. and shall not be subject to the 30 year limitation provided in R.I.G.L. § 34-4-21;

WHEREAS, the Department's written approval of this Restriction is contained in the document entitled: Remedial Approval Letter issued pursuant to the <u>Remediation Regulations</u>;

WHEREAS, to prevent exposure to or migration of hazardous materials and petroleum and to abate hazards to human health and/or the environment, and in accordance with the Remedial Approval Letter, the Grantor desires to impose certain restrictions upon the use, occupancy, and activities of and at the Property;

WHEREAS, the Grantor believes that this Restriction will effectively protect public health and the environment from such contamination; and

WHEREAS, the Grantor intends that such restrictions shall run with the land and be binding upon and enforceable against the Grantor and the Grantor's successors and assigns.

NOW, THEREFORE, Grantor agrees as follows:

- **A. Restrictions Applicable to the Property**: In accordance with the Remedial Approval Letter, the use, occupancy and activity of and at the Property is restricted as follows:
 - i No residential use of the Property shall be permitted that is contrary to Department approvals and restrictions contained herein;
 - ii No soil at the Property shall be disturbed in any manner without written permission of the Department's Office of Waste Management, except as permitted in the Soil Management Plan (SMP) approved by the Department in a written approval letter dated October 7, 2010 Exhibit B and attached hereto;
 - Humans engaged in activities at the Property shall not be exposed to soils containing hazardous materials or petroleum in concentrations exceeding the applicable Department approved direct exposure criteria set forth in the Remediation Regulations;
 - The engineered controls at the Property described in the SMP contained in Exhibit B attached hereto shall not be disturbed and shall be properly maintained to prevent humans engaged in recreational activity from being exposed to soils containing hazardous materials and/or petroleum in concentrations exceeding the applicable Department-approved residential direct exposure criteria in accordance with the Remediation Regulations]; and
- **B.** No action shall be taken, allowed, suffered, or omitted at the Property if such action or omission is reasonably likely to:
 - i Create a risk of migration of hazardous materials and/or petroleum;
 - ii Create a potential hazard to human health or the environment; or
 - Result in the disturbance of any engineered controls utilized at the Property, except as permitted in the Department-approved SMP contained in Exhibit B.
- **C. Emergencies:** In the event of any emergency which presents a significant risk to human health or to the environment, including but not limited to, maintenance and repair of utility lines or a response to emergencies such as fire or flood, the application of Paragraphs A (iii.viii.) and B above may be suspended, provided such risk cannot be abated without suspending such Paragraphs and the Grantor complies with the following:
 - Grantor shall notify the Department's Office of Waste Management in writing of the emergency as soon as possible but no more than three (3) business days after Grantor's having learned of the emergency. (This does not remove Grantor's obligation to notify any other necessary state, local or federal agencies.);

- ii Grantor shall limit both the extent and duration of the suspension to the minimum period reasonable and necessary to adequately respond to the emergency;
- Grantor shall implement reasonable measures necessary to prevent actual, potential, present and future risk to human health and the environment resulting from such suspension;
- iv Grantor shall communicate at the time of written notification to the Department its intention to conduct the emergency response actions and provide a schedule to complete the emergency response actions;
- V Grantor shall continue to implement the emergency response actions, on the schedule submitted to the Department, to ensure that the Property is remediated in accordance with the Remediation Regulations (or applicable variance) or restored to its condition prior to such emergency. Based upon information submitted to the Department at the time the ELUR was recorded pertaining to known environmental conditions at the Property, emergency maintenance and repair of utility lines shall only require restoration of the Property to its condition prior to the maintenance and repair of the utility lines; and
- vi Grantor shall submit to the Department, within ten (10) days after the completion of the emergency response action, a status report describing the emergency activities that have been completed.
- **D. Release of Restriction; Alterations of Subject Area:** The Grantor shall not make, or allow or suffer to be made, any alteration of any kind in, to, or about any portion of the Property inconsistent with this Restriction unless the Grantor has received the Department's prior written approval for such alteration. If the Department determines that the proposed alteration is significant, the Department may require the amendment of this Restriction. Alterations deemed insignificant by the Department will be approved via a letter from the Department. The Department shall not approve any such alteration and shall not release the Property from the provisions of this Restriction unless the Grantor demonstrates to the Department's satisfaction that Grantor has managed the Property in accordance with applicable regulations.
- **E.** Notice of Lessees and Other Holders of Interests in the Property: The Grantor, or any future holder of any interest in the Property, shall cause any lease, grant, or other transfer of any interest in the Property to include a provision expressly requiring the lessee, grantee, or transferee to comply with this Restriction. The failure to include such provision shall not affect the validity or applicability of this Restriction to the Property.
- **F.** Enforceability: If any court of competent jurisdiction determines that any provision of this Restriction is invalid or unenforceable, the Grantor shall notify the Department in writing within fourteen (14) days of such determination.

- **G. Binding Effect:** All of the terms, covenants, and conditions of this Restriction shall run with the land and shall be binding on the Grantor, its successors and assigns, and each owner and any other party entitled to control, possession or use of the Property during such period of ownership or possession.
- **H. Inspection & Non-Compliance:** It shall be the obligation of the Grantor, or any future holder of any interest in the Property, to provide for annual inspections of the Property for compliance with the ELUR in accordance with Department requirements.

An officer or director of the City with direct knowledge of past and present conditions of the Property (the "City Representative"), or a qualified environmental professional will, on behalf of the Grantor or future holder of any interest in the Property, evaluate the compliance status of the Property on an annual basis. Upon completion of the evaluation, the City Representative or environmental professional will prepare and simultaneously submit to the Department and to the Grantor or future holder of any interest in the Property an evaluation report detailing the findings of the inspection, and noting any compliance violations at the Property. If the Property is determined to be out of compliance with the terms of the ELUR, the Grantor or future holder of any interest in the Property shall submit a corrective action plan in writing to the Department within ten (10) days of receipt of the evaluation report, indicating the plans to bring the Property into compliance with the ELUR, including, at a minimum, a schedule for implementation of the plan.

A qualified representative of the City will conduct semiannual inspections of the existing trees at the Site to determine if the trees are dying. If a tree is determined to be dying by the qualified professional the tree shall be removed to minimize damage to the engineered cap. The City will notify the Department a minimum of two (2) days prior to initiation of the work. The engineered cap will be repaired to ensure a minimum of one foot of vegetated, certified clean fill underlain with a geotextile of equal or greater quality than the one specified is installed.

In the event of any violation of the terms of this Restriction, which remains uncured more than ninety (90) days after written notice of violation, all Department approvals and agreements relating to the Property may be voided at the sole discretion of the Department.

I. Terms Used Herein: The definitions of terms used herein shall be the same as the definitions contained in Section 3 (DEFINITIONS) of the <u>Remediation Regulations</u>.

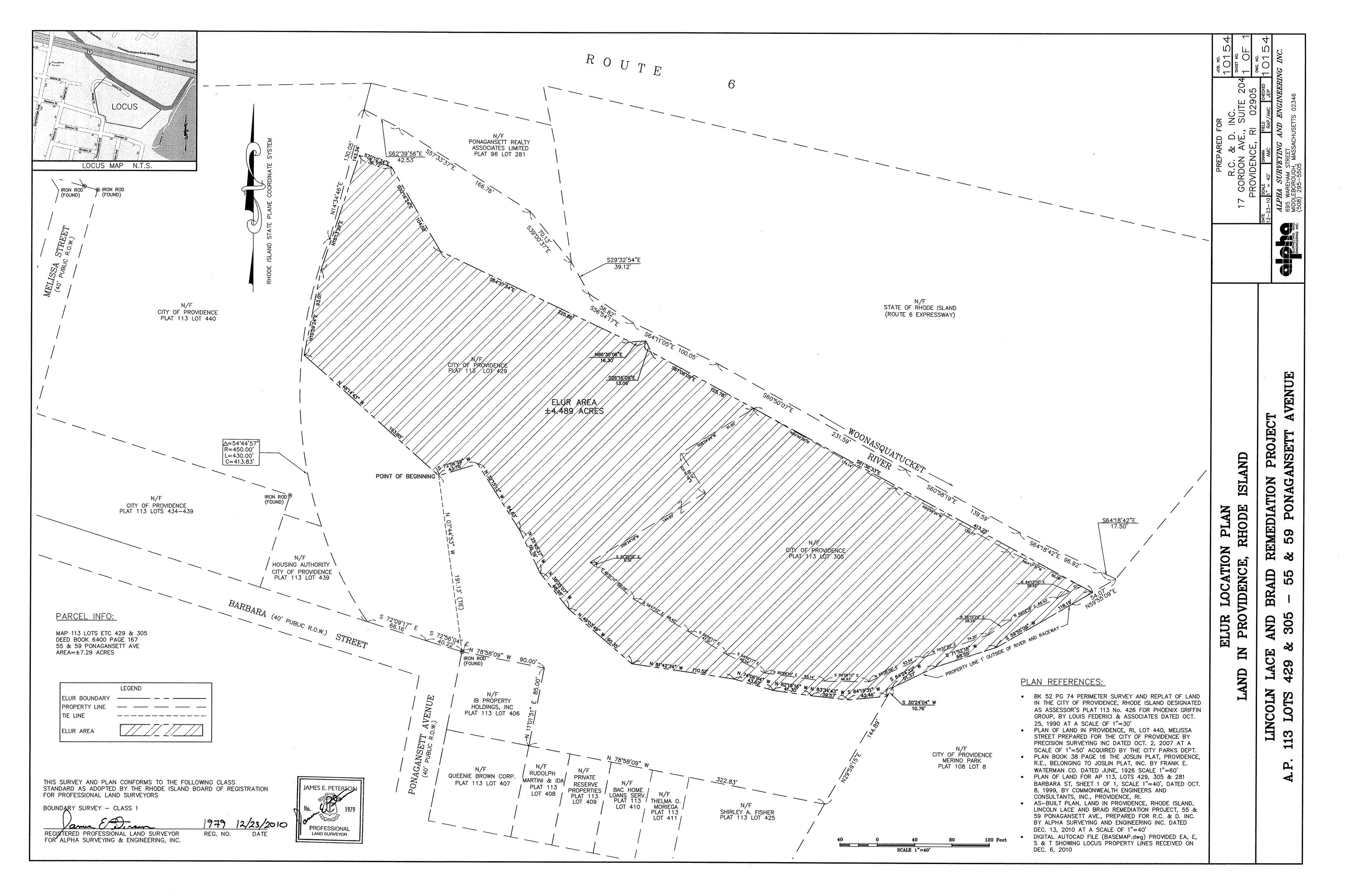
IN WITNESS WHEREOF, the Grantor has hereunto set (his/her) hand and seal on the day and year set forth above.

City of	f Providence	
Ву:	Grantor (signature)	Grantor (typed name)

STATE OF RHODE ISLAND

COUNTY OF PROVIDENCE

In Providence, in said County and before me personally appeared party executing the foregoing instrument an to be his free act and deed.	, to me k	known and known b	by me to be the
Notary	Public:		
My Co	mm. Expires:		



Boundary Description Environmental Land Use Restriction 55 and 59 Ponagansett Avenue, Providence, RI

Beginning at a point, said point being N 07°55'53" W of the intersection of the northerly line of Barbara Street with the easterly line of Ponagansett Avenue, a distance of one hundred ninety-one and thirteen hundredths (191.13') feet; thence

- N 48°14'43" W a distance of one hundred ninety-three and eighty-five hundredths (193.85') feet; thence
- N 10°59'24" E a distance of ninety-three and one hundredth (93.01') feet; thence
- N 18°13'29" E a distance of one hundred thirty and five hundredths (130.05') feet; thence
- S 70°10'34" E a distance of thirty-six and seventy-two hundredths (36.72') feet; thence
- S 30°16'24" E a distance of one hundred four and fifty-eight hundredths (104.58') feet; thence
- S 64°37'34" E a distance of two hundred twenty-five and eighty-six hundredths (225.86') feet; thence
- N 86°30'06" E a distance of sixteen and thirty hundredths (16.30') feet; thence
- S 26°16'09" E a distance of thirteen and six hundredths (13.06') feet; thence
- S 61°08'09" E a distance of one hundred twenty-five and seventy-eight hundredths (125.78') feet; thence
- S 61°36'33" E a distance of four hundred thirteen and twenty-five hundredths (413.25') feet: thence
- S 59°55'09" W a distance of one hundred eighteen and nineteen hundredths (118.19') feet; thence
- S 71°52'15" W a distance of sixty-eight and fifty-five hundredths (68.55') feet; thence
- S 64°24'32" W a distance of fifty-one and thirty-seven hundredths (51.37') feet; thence
- S 30°24'04" W a distance of ten and seventy-six hundredths (10.76') feet, the previous four courses by land now or formerly City of Providence ('Merino Park'); thence
- S 84°19'31" W a distance of forty-two and forty-six hundredths (42.46') feet; thence
- N 83°34'43" W a distance of thirty-nine and fifty-seven hundredths (39.57') feet; thence
- N 82°19'16" W a distance of forty-one and thirty hundredths (41.30') feet; thence
- N 74°06'04" W a distance of forty-three and sixty-two hundredths (43.62') feet; thence
- N 81°42'34" W a distance of one hundred ten and fifty-two hundredths (110.52') feet; thence
- N 49°03'49" W a distance of ninety and thirty-five hundredths (90.35') feet; thence
- N 38°35'07" W a distance of forty-eight and ninety-eight hundredths (48.98') feet; thence
- N 25°45'37" W a distance of fifty and seventy-nine hundredths (50.79') feet; thence
- N 32°15'12" W a distance of eighty-four and sixty-three hundredths (84.63') feet; thence
- S 72°56'59" W a distance of forty-three and seventy-six hundredths (43.76') feet to the Point of Beginning.

The above parcel of land contains an area of 4.490 acres, more or less.



Soil Management Plan Lincoln Lace & Braid Remediation Project 55-61 Ponagansett Street Providence, Rhode Island

$Prepared \ for$

Providence Parks Department
Dalrymple Boathouse – Roger Williams Park
Providence, Rhode Island 02905

Prepared by

EA Engineering, Science, and Technology 2350 Post Road Warwick, Rhode Island 02886 (401) 736-3440

> June 2010 REVISED

EA Project No.: 61891.05

CONTENTS

		<u>Page</u>
B.1	PURPOSE	B-1
B.2	GOAL	B-1
B.3	SITE DESCRIPTION AND BACKGROUND	B-1
B.4	ENGINEERED CAP	B-2
B.5	FUTURE DEVELOPMENT	B-3
B.6	DOCUMENTATION	B-6
B.7	HEALTH AND SAFETY	B-6

June 2010

SOIL MANAGEMENT PLAN

B.1 PURPOSE

The purpose of this Soil Management Plan (SMP) is to develop a strategy for managing the contaminated soil encountered during potential future construction activities at the Lincoln Lace & Braid site at 55-61 Ponagansett Street (Plat 113, Lots 305 and 429) in Providence, Rhode Island. It is important that all personnel responsible for working with soil on the site, including equipment operators, are familiar with this SMP.

B.2 GOAL

The goal of this SMP is to ensure that soil excavated, temporarily stockpiled, graded, or moved during and after construction activities is managed properly and handled in a safe manner. All contaminated soil at the site has been capped beneath the geosynthetic fabric layer and 4 to 12 in. of certified clean soil.

This SMP is included as an attachment to the final Environmental Land Usage Restriction (ELUR) for the site. Future intrusive activities conducted at the site will be subject to the procedures contained in this SMP.

B.3 SITE DESCRIPTION AND BACKGROUND

The Lincoln Lace & Braid site was established in 1812 as Merino Mill. By 1870, there were mill villages on the Johnston and North Providence sides of the river at Olneyville, Dyerville, Manton Village, Lyman's Mill, Allendale, Centerdale, and Graniteville. Within Providence, mills included Union Cotton, Delaine, Lyman Manufacturing, and the Valley Bleachery. By that time, nearly every foot of the river's drop was being used to turn a factory waterwheel. In order to keep the mill wheels turning throughout the year, the local manufacturers formed a company to build reservoirs upstream to store water for use during the dry months, such as the reservoir formerly located on the abutting site, the Ponagansett Avenue Landfill.

In 1994, the main building of the mill complex was destroyed by fire. Subsequent remediation efforts have removed the building debris as well as petroleum and petroleum-contaminated soil from the site. Only portions of the ruins of the former Merino Mill and its associated waterpower infrastructure are currently visible.

The primary contaminants of concern (COC) at the site include volatile organic compounds (VOCs), metals, and polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding the Rhode Island Department of Environmental Management (RIDEM) Residential Direct Exposure Criteria (RDEC) for soil. Exceedances of the RDEC for arsenic, lead, and total petroleum hydrocarbons (TPH) were found in some sediment samples.

June 2010

EA Engineering, Science, and Technology

B.4. ENGINEERED CAP

The designed engineered cap components at the site consist of the following layers:

- Closure cap subgrade
- Geosynthetic fabric filter layer
- Protective cover soil
- Vegetative cover
- Site improvements.

A closure cap subgrade has been prepared from the existing site grade that will create adequate stormwater drainage for the site and serve as a suitable base for the components of the closure cap system.

A geosynthetic fabric filter layer (with a puncture strength of 120 lbs and a burst strength of 400 psi) has been placed above the closure cap subgrade and below a one ft protective soil cover for all landscaped areas of the Site to prevent human exposure to impacted soil. The fabric filter has been installed so that the seams overlap to prevent the underlying impacted soil from mixing with the clean soil.

The protective cover soil layer of the closure cap system, also commonly termed the vegetative support soil layer, consists of 1 ft of certified clean fill material across the site. This layer is designed to provide for root growth while buffering the underlying layers from damage due to the effects of frost penetration, root penetration, and loading of the finished surface of the landfill closure cap. The upper 4 in. of this soil layer is an organic topsoil having characteristics to promote adequate vegetation, stability, and erosion resistance in the landscaped areas of the site.

The vegetative cover component is a locally adapted perennial plant mix that is suitable for the Rhode Island area climate. The species will be capable of surviving in a low nutrient soil, with little or no requirements for nutrient addition. Root penetration into the soil should be less than the minimum thickness of the soil cover layer so as not to affect the drainage media or geosynthetic material beneath.

The sluiceway has been remediated through the installation of an engineered barrier in the upstream portion of the water body. The contaminated sediment has been capped with a geogrid (to provide stability), a geotextile (to prevent migration of contaminated sediment), and 6 in. of crushed stone (to prevent direct exposure and stabilize the geotextile). Check dams have been installed in the downstream portion of the sluiceway to aerate and remove iron from the surface water prior to discharge into the Woonasquatucket River.

In the vicinity of the tailrace on the southern portion of the site, remedial activities include the removal of existing debris, as possible; the removal of invasive plant species in and along the tailrace; and the introduction of native wetland plant species. A wetland buffer along the northern edge of the tailrace will be established to allow plants to thrive and minimize potential

impacts from the site-wide cap construction. A buffer will also be established along the Woonasquatucket River between the river and the proposed bike path.

B.5 FUTURE DEVELOPMENT

In accordance with Section A(iii) of the ELUR, no soil at the property is to be disturbed in any manner without prior written permission of RIDEM's Office of Waste Management, except for minor inspections, maintenance, and landscaping activities that do not disturb the contaminated soil at the site. The integrity of the existing engineered cap will be maintained during all future operations on the Site. Operations that require the temporary removal or alteration of the cap may be permissible subject to RIDEM approval of a work plan. This work plan must include a description of the anticipated site activity, including the volume of soil to be excavated, anticipated contaminants of concern, a site figure identifying the proposed area to be excavated or disturbed, the expected duration of the project, and the proposed disposal location for excavated soil. This work plan must be submitted to RIDEM no later than 60 days prior to the proposed initiation of these activities. RIDEM will determine if the submittal of a Closure Report for these activities will be required, as well as if Public Notice is required prior to the initiation of soil disturbance. RIDEM will be subsequently notified, following the approval of the work plan, at least 2 days prior to the initiation of soil disturbance activities. Work associated with the Notification will not commence until written RIDEM approval has been issued. If these operations are performed in areas where the existing cap exists, the cap must be replaced within 14 days unless otherwise approved. Shall any significant alterations to the RIDEM-approved plan be necessary, a written description of the proposed deviation will be submitted to RIDEM for review and approval prior to initiating such changes.

Any operations that may require contact with capped, impacted soil, such as utility trenching, must follow the same procedures listed above, including those detailed in the Safety, Health, and Emergency Response Plan (SHERP). If the cap is disturbed, it must be replaced with the appropriate layer of clean fill, asphalt, concrete, and/or geotextile fabric within 14 days unless otherwise approved. Any impacted soil below the cap must be handled properly, and the use of Level D personnel protective equipment (PPE) would be required.

Applicable Area

This SMP and affiliated ELUR, which restricts the property from **Residential** use, pertains to the **area detailed in Exhibit A of the ELUR**. See attached site figure.

Soil Management

The risk of direct exposure of humans to contaminated soil and sediment is the primary concern at the Site. Individuals engaged in activities at the Site may be exposed through incidental ingestion, dermal contact, or inhalation of vapors or entrained soil particles if proper precautions are not taken. Therefore, the following procedures will be followed to minimize the potential of exposure.

The appropriate precautions will be taken to restrict unauthorized access to the property during site work. Dust suppression (i.e. watering) techniques must be employed at all times. Air monitoring and a means to control odors will be utilized, as appropriate (odor-suppressing foam, etc.) if odors become a nuisance. Best management practices also include the managing and minimizing of the migration and/or surface runoff of hazardous materials at the site during remedial and/or future site surface disturbances. This should be achieved via the installation of hay bales, silt fencing, and any other appropriate measures during the entire duration of site/earth work.

Activities that encounter unexpected observation or situation arises during site work will immediately cease. Workers will not attempt to handle the situation themselves but will contact the appropriate authority for further direction.

All soils are presumed to be regulated until such time that it is demonstrated to RIDEM, through sampling and laboratory analysis, that they are not regulated (i.e., presumptive remedies or locations of previously-inaccessible soil).

Excess soil is to remain onsite for analytical testing, to be performed by an Environmental Professional, in order to determine the appropriate disposal and/or management options. The soil must be placed on and covered with polyethylene/plastic sheeting during the entire duration of its staging and secured with appropriate controls to limit the loss of the cover and protect against stormwater and/or wind erosion (i.e. hay bales, silt fencing, rocks).

Excavated soils will be staged and temporarily stored in a designated area of the property. Within reason, the storage location will be selected to limit unauthorized access to the materials (i.e., away from public roadways/walkways). No regulated soil will be stockpiled onsite for greater than 60 days without prior RIDEM approval.

Native soils excavated from the Site that will be used as subgrade beneath the engineered cap shall be observed via visual and olfactory observation during excavation and screened using a photo-ionization detector and at a frequency of one sample every 500 cubic yards. These soils shall be sampled and analyzed at a Rhode Island Certified Laboratory for arsenic, lead, and mercury at a frequency of one sample every 500 cubic yards.

A proper leakproof container (i.e. drum or lined roll-off) or secondary containment will be utilized if stockpiled soils pose a risk or threat of leaching hazardous materials.

Project No.: 61891.05 Revision: REVISED Page B-5 of B-6 June 2010

EA Engineering, Science, and Technology

Soils excavated from the site may not be reused as fill on residential property. Excavated fill material shall not be reused as fill on commercial or industrial properties unless it meets RIDEM's Method 1 RDEC for all constituents listed in Table 1 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations). Soil must be sampled and analyzed by a qualified Environmental Professional at a frequency of one sample per 500 tons for all constituents. Copies of the laboratory analysis results shall be maintained by the site owner and included in the annual inspection report for the site, or the closure report if applicable. In the event that the soil does not meet any of these criteria, the material must be properly managed and disposed of offsite at a licensed facility.

Site soils that are to be disposed of offsite must be done so at a licensed facility in accordance with all local, state, and federal laws. Copies of the material shipping records associated with the disposal of the material shall be maintained by the site owner and included in the annual inspection report for the site.

Best soil management practices should be employed at all times, and regulated soils should be segregated into separate piles (or cells or containers) as appropriate based upon the results of analytical testing when multiple reuse options are planned (i.e. reuse onsite, reuse at a RIDEM-approved industrial/commercial property, or disposal at a RIDEM-approved licensed facility).

All non-disposable equipment used during the soil disturbance activities will be properly decontaminated as appropriate prior to removal from the site. All disposable equipment used during the soil disturbance activities will be properly containerized and disposed of following completion of the work. All vehicles utilized during the work shall be properly decontaminated as appropriate prior to leaving the site.

At the completion of site work, all exposed soils are required to be recapped with RIDEM-approved engineered controls (2 ft of clean fill or equivalent: building foundations, 4 in. of pavement/concrete underlain with 6 in. of clean fill and/or 1 ft of clean fill underlain with a geotextile liner) consistent or better than the site surface conditions prior to the work that took place. These measures must also be consistent with the RIDEM- approved ELUR recorded on the property.

Any clean fill that is to be used to cap the site must be sampled **prior to delivery and placement.** All clean fill imported to the site, including subgrade material and loam, must be sampled prior to delivery and placement. Please note that all samples are to be discrete, grab samples; composite samples are not acceptable. Clean fill and loam must be sampled for arsenic at a frequency of one sample per 500 cubic yards (yd³). One-quarter of the total number of compliance samples of clean fill and loam will be sampled for VOCs, semi-volatile organic compounds (SVOCs), priority pollutant 13 (PP 13) metals, and TPH. A minimum of one sample should be analyzed for all analytes (i.e. PP 13 metals, SVOCs, VOCs, and TPH) if less than 500 yd³ of fill/loam brought onsite. All soil that is to be utilized onsite must meet the RDEC for all constituents or be certified to be non-jurisdictional by an Environmental Professional. Laboratory analytical results shall be submitted to RIDEM via fax, and written approval via email to use the material must be received by RIDEM *prior* to use. The Annual

Inspection Report for the site, or Closure Report if applicable, should include either analytical sampling results from the fill demonstrating compliance or, alternatively, include written certification by an Environmental Professional attesting to the material's origin and suitability and that the fill is not jurisdictional.

B.6 DOCUMENTATION

Reports of the annual cap inspections will be submitted to RIDEM as specified in the ELUR.

B.7 HEALTH AND SAFETY

Direct contact with contaminated material during construction activities will be minimized with the use of Level D PPE including gloves, boots, long-sleeved shirts, and safety glasses. Workers are also required to wash their hands with soap and water prior to eating, drinking, smoking, or leaving the site. Strict dust control measures will also be kept in place to prevent the contaminated soil from becoming airborne. Refer to the Remedial Action Work Plan Addendum, Section 3, for the site-specific contingency plan.