Remedial Action Plan

Baltic Mills
29 Bushnell Hollow Road
Sprague, Connecticut

Submitted to:
Town of Sprague

Submitted by:
Paul Burgess, LLC
36 Elm Street
Stonington, CT 06378

Paul Burgess, P.E., LEP

October 2010

PAUL BURGESS, LLC
Environmental Consulting,
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1. Introduction

1.1 Purpose

This Remedial Action Plan (RAP) has been prepared for the Baltic Mills site located at 29 Bushnell Hollow Road in Sprague (Baltic), CT. *Paul Burgess, LLC* prepared this RAP for the Town of Sprague, the property owner. The Town of Sprague entered into a CT Department of Environmental Protection (CTDEP) Voluntary Remediation Program under Section 22a-133x of the CT General Statutes, therefore compliance with CTDEP Remediation Standard Regulations (RSRs) is required at this site.

In order to develop this RAP, including assessing and evaluating cleanup and disposal requirements, supplemental chemical analyses were completed. The supplemental sampling and analysis task included collecting representative soil samples from test pit excavations and conducting chemical analyses to evaluate and determine disposal alternatives. The data were also be used to assess specific CTDEP RSR compliance issues.

1.2 Site Description

The property is located at 29 Bushnell Hollow Road in Sprague, Connecticut. Some old records cite the street address as 2 Scotland Road. The Tax Assessor's designation for the site is Map 26, Block 6, Lot 1, and another small parcel Map 26, Block 5, Lot 4. The site location is shown on Figure 1.

The main parcel (Map I.D. 26/6/1) is approximately 16.5 acres, according to Town Assessor's records. Only one structure (Mill No. 10) and a concrete water tank remain on site. Remains of the old powerhouse building (not on subject property) also exists, along with building rubble associated with the main mill structure destroyed by fire. The building rubble is predominately granite and masonry, with some metal and wood. Site features are shown on Figure 2.

The headrace and tailrace, associated with providing waterpower to the mill, still exist. Some tree growth exists, particularly in the headrace. Otherwise, the area around the main mill complex does not contain significant vegetation.

East of the Mill No. 10 Building is an undeveloped area. This area abutting the northern side of the tailrace contains some fill material and solid waste. Mr. Hunt (previous property owner) confirmed that past-unauthorized solid waste disposal took place in this area.

A narrow strip of wooded land, between Bushnell Hollow Road and the Shetucket River, extends approximately 1000 feet east of the end of the tailrace. No evidence of fill or disposal was observed in this area other than typical roadside litter.

An undeveloped area of land exists between the tailrace and the Shetucket River, east of the Nutmeg Wire Co. This area is referred to as the peninsular. Apparent disturbance in this area can be seen in old photographs (1947). Above-grade fill material is visible in this area in the old photographs and is still visible on site (although now covered by vegetation).

1.3 Previous Investigations

The following environmental reports have been completed for this property:

- Phase I Environmental Site Assessment, GEI Consultants, Inc. February 2005: This report identified a number of recognized environmental conditions (RECs) at the site. They included former oil tanks, the fire combustion byproducts, onsite fill and solid waste, visible slag, former gas works, and the tailrace sediments.
- Targeted Brownfields Assessment (Draft), Tetra Tech August 2006: This investigation included drilling test borings, installation of ground water monitoring wells, collection and analysis of soil and groundwater samples, and an asbestos survey of Building 10. The investigation did not include the peninsular. The investigation identified certain petroleum hydrocarbons, polyaromatic hydrocarbons (PAHs), metals in soils exceeding CTDEP criteria. PAHs, cobalt and benzene were detected in groundwater above CTDEP criteria (*see subsequent comments in this report which indicate no exceedances*). Asbestos and lead paint were found in building materials in Building 10.
- The US Environmental Protection Agency (USEPA) completed a Draft Targeted Brownfields Assessment Report for the Baltic Mills site dated December 2009. The USEPA report evaluated the nature and extent of soil contamination by test pit excavations, soil sampling and chemical analysis. Coal ash-like material was observed in some test pits. The soil analytical results detected extractable total petroleum hydrocarbons (ETPH), PAHs, and lead above CTDEP criteria.
- Asbestos Containing Materials and Lead Based Paint Monitoring Report, Eagle Environmental, June 5, 2009. Documented asbestos and lead abatement activities in Building 10.

1.4 Recognized Environmental Conditions

The following is a summary of the RECs and the status of investigation prior to the supplemental site investigation completed as part of this RAP.

Potential Release Areas/ Recognized Environmental Conditions	Nature of Release	Status
#1 Former 50,000 gallon UST	No 6 Fuel Oil	Soil remediation completed 1989. EPA-2006 investigation. PAHs and ETPH detected in soils above CTDEP criteria.
#2 Solid Waste Disposal (eastern side of site)	Solid waste	Partially investigated; no soil contamination detected.
#3 Fire Combustion Material	Combustion Ash	Surface soils have not been collected for analysis.
#4 Coal Ash Fill- North side of tailrace	Coal Ash	Partially Investigated – PAHs detected in soil above CTDEP criteria.
#5 Original Canal	Fill	Not Investigated.
#6 Tailrace- Sediments	Industrial Discharges	Not Investigated.
#7 Peninsular Area	Fill	Partially investigated- PAHs detected above CTDEP criteria.
#8 Former Gas Works	Potential Coal Tar	Partially investigated-PAHs detected above CTDEP criteria.
#9 Weave Shed	Unknown	Partially Investigated- Contamination not detected.

2. Environmental Setting

2.1 Land Use

The land use of the site vicinity is mixed commercial, industrial and residential. Residential development exists east of the site along Bushnell Hollow Road. To the northwest is the Stockhouse Building, with Mattern Construction the principal tenant. The Sprague Fire Department is located adjacent to Mattern Construction. Further to the northwest is a Sprague elderly housing complex. A former oil distribution business is located to the north along Bushnell Hollow Road. Abutting the site to the south and west is Nutmeg Wire, a wire manufacturing business. Further to the south is the Village of Baltic with residential and commercial development.

2.2 Topography

The topographic features and elevations of the site are depicted on Figure 1.

2.3 Site Geology

The subsurface geology is alluvium and stratified drift. Subsurface investigations indicate that a majority of subsurface soil is fine to medium-grained sand. Groundwater at the main mill site ranges from approximately 19 to 26 feet below grade. The depths of subsurface investigations have extended to 24 to 26 feet below grade. Groundwater flow is generally to the south to the Shetucket River. The bedrock underlying the site is mapped as Putnam Gneiss. Depth to bedrock has not been determined.

2.4 Groundwater

Groundwater below the developed portion of the site is classified by the CTDEP as a GB groundwater area. The GB classification indicates (1) groundwaters within highly urbanized areas or areas of intense industrial activity, and (2) areas where public water supply service is available. The groundwater may not be suitable for direct human consumption because of waste discharges, spills or leaks of chemicals, or land-use effects. The state's goal is to prevent further degradation by preventing additional discharges that would cause irreversible contamination. The narrow strip of land east of the stream from Baltic Reservoir is classified as a GA groundwater area. The GA classification indicates groundwaters within the area of influence of private and potential public water supply wells that are presumed suitable for direct human consumption without the need for treatment. The state's goal is to maintain the quality of the drinking water.

2.5 Surface Water

The Shetucket River abuts the site to the south. This surface water is classified by the CTDEP as B, designating the water for recreational use, fish and wildlife habitat, agricultural supply, industrial supply, and other legitimate uses, including navigation. The B classification indicates the waters are known or presumed to meet water-quality criteria that support the designated uses. An unnamed stream flowing from Baltic Reservoir flows through the southern portion of the site. This surface water is classified by the CTDEP as A, indicating a potential drinking water supply, fish and wildlife habitat, recreational use, agricultural supply, industrial supply, and other legitimate uses, including navigation. The A classification indicates the waters are known or presumed to meet the water-quality criteria that support the designated uses.

2.6 Water Supply

The subject site and site vicinity are supplied potable water by Sprague Water and Sewer Authority. This includes the area within the Village of Baltic. The area to the east of the site on Bushnell Hollow Road, is not served by a public water supply; the residential homes are served by on-site private wells.

3. CTDEP Regulatory Criteria

This section of the report provides an overview of CTDEP cleanup criteria applicable at this site.

3.1 Overview and Applicability

Analytical results for soils and groundwater were compared to the CTDEP RSRs. The cleanup standards are summarized herein. The RSRs should be consulted for complete details.

3.2 Soil Cleanup Criteria

The CTDEP soil remediation goals integrate two soil cleanup criteria: (1) Direct Exposure Criteria (DEC) to protect human health and the environment from risks associated with direct exposure to pollutants in contaminated soil; and (2) Pollutant Mobility Criteria (PMC) to protect groundwater quality from pollutants that leach from the soil to groundwater. The developed portion of the site (location of RECs) is classified as a GB groundwater area, therefore, the GB PMC apply.

Soils to which both criteria apply must be remediated to a level that is equal to the more stringent criteria. Residential DEC (RDEC) and separate commercial/industrial DEC (IDEC) have been established by CTDEP for most chemicals. The RDEC have been used to evaluate data at this site so as not to preclude future land uses. The DEC applies to soil up to 15 feet below ground surface (bgs). However, with the proper environmental land use restriction (ELUR) preventing disturbance, contaminated soil can remain below a structure, 4 feet below grade, or below pavement and 2 feet of sub-base material (clean fill).

The GB PMC applies to soils above the seasonal high groundwater table. The PMC do not apply to soils above the seasonal high groundwater table and below a building, if certain conditions are met and an ELUR is established preventing removal of the building.

3.3 Groundwater Remediation Standards

Similar to remediation standards for soil, groundwater remediation requirements are dependent upon the groundwater classification. The objectives of these standards are to: (1) protect and preserve groundwater in GA areas as a natural resource; (2) protect existing use of groundwater regardless of the area's groundwater classification; (3) prevent further degradation of groundwater quality; (4) prevent degradation of surface water from discharges of contaminated groundwater; and (5) protect human health.

The Groundwater Remediation Standards regulate remediation of groundwater based on each substance present in a plume and by each distinct plume of contamination. Several factors influence the remediation goal at a site, including the following: background groundwater quality, the groundwater classification, the proximity of nearby surface water, existing groundwater uses, and existing buildings and their use. When assessing general groundwater remediation requirements, all of these factors must be considered in conjunction with the numeric components of the RSRs.

The applicable numeric components for GB groundwater classification areas include the following.

- Surface Water Protection Criteria (SWPC)
- Volatilization Criteria (VC) – The residential VC (RVC) was used at this site.

Groundwater monitoring consists of compliance monitoring and post remediation monitoring, as subsequently discussed.

4. Supplemental Site Investigation

In order to develop this RAP, including assessing and evaluating cleanup and disposal requirements, certain supplemental soil chemical analysis was required. The supplemental sampling and analysis collected soil samples from test pit excavations and conducted chemical analyses to evaluate and determine disposal alternatives. The chemical data was also used to assess specific CTDEP RSR compliance issues.

4.1 Summary of Previous USEPA Investigations

A summary of the August 2006 and December 2009 Draft Targeted Brownfields Assessment data is provided in the following table; ***italicized*** and **bold** font indicates chemical detected above CTDEP cleanup criteria. Abbreviations are provided at the end of the table.

Figures 3 and 4 show the sample locations and summarize the results. Copies of tables summarizing soil and groundwater analytical results from the 2009 USEPA report is provided in Appendix A.

ID (Sample Depth)	REC/LOCATION DESCRIPTION	SOIL COMMENTS	SOILS ANALYSIS
MW-1(SB-1) (0-2')	Weave Shed	Fine- Medium Sand	Metals, VOCs, SVOCs,Pest/PCBs
MW-1(SB1)(14-16')	Weave Shed	Fine – Medium Sand	Metals, VOCs, SVOCs,Pest/PCBs
MW-6(SB6) (0-2')	No. 6 Fuel Oil UST	Fine – Medium Sand	Metals, VOCs, *SVOCs,*ETPH,Pest/PCBs
MW-6(SB6) (14-16')	No. 6 Fuel Oil UST	Medium- Coarse Sand (Petroleum Odor/Sheen)	Metals, VOCs, *SVOCs,ETPH*,Pest/PCBs
TP-01	No. 6 Fuel Oil UST	No Evidence of Oil	-
TP-02 (8')	No. 6 Fuel Oil UST	Petroleum Odor (8-11')	Metals, VOCs, SVOCs, *ETPH*
TP-03	No. 6 Fuel Oil UST	No Evidence of Oil	-
TP-04 (8')	No. 6 Fuel Oil UST	No Evidence of Oil	Metals, VOCs, SVOCs, *ETPH*
TP-05	No. 6 Fuel Oil UST	No Evidence of Oil	-
TP-06 (6')	No. 6 Fuel Oil UST	Petroleum Odor (6-12')	Metals, SVOCs, *ETPH*
TP-06 (12')	No. 6 Fuel Oil UST	Petroleum Odor; Oil seep at 17'	VOCs, *ETPH*

ID (Sample Depth)	REC/LOCATION DESCRIPTION	SOIL COMMENTS	SOILS ANALYSIS
TP-07 (14')	No. 6 Fuel Oil UST	Petroleum Odor (10-14')	Metals, VOCs, SVOCs, *ETPH*
TP-08 (4')	No. 6 Fuel Oil UST	No Evidence of Oil	Metals, SVOCs
TP-08 (13)	No. 6 Fuel Oil UST	No Evidence of Oil	VOCs, ETPH
TP-09	No. 6 Fuel Oil UST	No Evidence of Oil	-
TP-10	No. 6 Fuel Oil UST	No Evidence of Oil	_
TP-11 (4')	Original Canal	Fine- Medium Sand	Metals, ETPH, SVOCs
TP-12 (2')	Fire Combustion Material	Fine- Medium Sand	Metals, ETPH, SVOCs
MW-2(SB-2)(0-2')	Fire Combustion Material/Coal Ash/North Side of Tailrace	Fine – Medium Sand	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
MW-3(SB-3)(2-4')	Coal Ash/North Side of Tailrace	Fine- Medium Sand, some coal	Metals, VOCs, *SVOCs,ETPH*,Pest/PCBs
MW-3(SB-3)(6-8')	Coal Ash/North Side of Tailrace	Fine Sand	*Metals(lead),* VOCs, SVOCs,ETPH,Pest/PCBs
MW-3(SB-3)(14-16')	Coal Ash/North Side of Tailrace	Silty Sand	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
MW-4(SB-4)(0-2')	Coal Ash/North Side of Tailrace	Fine – Medium Sand	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
MW-4(SB-4)(12-14')	Coal Ash/North Side of Tailrace	Fine – Medium Sand	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
TP-13 (1')	Fire Combustion Material/ Coal Ash/North Side of Tailrace	Some Ash	*Metals(lead),* ETPH, SVOCs
TP-14 (2)	Fire Combustion Material/ Coal Ash/North Side of Tailrace	Some Ash	Metals, ETPH, SVOCs
TP-14 (8')	Coal Ash/North Side Tailrace	White/Light Ash Layer	Metals, ETPH, SVOCs
TP-15 (2')	Fire Combustion Material	Fine- Medium Sand	Metals, ETPH, SVOCs
TP-16 (2')	Fire Combustion Material	Fine- Medium Sand	Metals, ETPH, SVOCs
TP-17 (5')	Fire Combustion Material Coal Ash/North Side Tailrace	Some Ash	Metals, ETPH*, SVOCs*

ID (Sample Depth)	REC/LOCATION DESCRIPTION	SOIL COMMENTS	SOILS ANALYSIS
TP-18 (2.5)	Original Canal	Ash Like Material	*Metals(lead),* ETPH, SVOCs
TP-19 (2')	Original Canal	Ash Like Material	Metals, ETPH, *SVOCs*
TP-20	Original Canal	Fine- Medium Sand	-
MW-5(SB-5)(0-2')	Eastern Solid Waste Area	Medium Sand	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
MW-5(SB-5)(20-22')	Eastern Solid Waste Area	Fine Sand w/Silt	Metals, VOCs, SVOCs,ETPH,Pest/PCBs
TP-21	Eastern Solid Waste Area	Fine- Medium Sand	-
TP-22 (2')	Eastern Solid Waste Area	Fine- Medium Sand	Metals, ETPH, SVOCs
TP-23	Eastern Solid Waste Area	Fine- Medium Sand	-
TP-24	Peninsular Area	Coarse Sand with Gravel	-
TP-25 (5')	Peninsular Area	Fine- Medium Sand	Metals, ETPH, SVOCs
TP-26	Peninsular Area	Fine- Medium Sand	-
TP-27 (composite)	Peninsular Area	Fine- Medium Sand	Metals, ETPH, *SVOCs*
TP-28 (5.5')	Peninsular Area	Brick Debris- Ash Like Material	Metals, VOCs, ETPH, SVOCs,
TP-29 (3.5')	Peninsular Area	Fine Sand	Metals, VOCs, ETPH, SVOCs
TP-30 (4-4.5')	Peninsular Area	Black Coarse Material	Metals, VOCs, ETPH, *SVOCs,* Cyanide
TP-31 (composite)	Former Gas Works/Fill	Fine- Medium Sand	Metals, ETPH, SVOCs,
TP-32 (composite)	Former Gas Works/Fill	Fine- Medium Sand	Metals, ETPH, SVOCs, Cyanide
TP-33 (6-7')	Former Gas Works/Fill	Black and White Apparent Ash	Metals, VOCs,ETPH, *SVOCs,* Cyanide

Table Notes: USTs- Underground Storage Tank, VOCs- volatile organic compounds, SVOCs- semivolatile organic compounds, ETPH- extractable total petroleum hydrocarbons, PCBs- polychlorinated biphenyls.

Groundwater was evaluated based on chemical data collected by USEPA contractors from six groundwater monitoring wells; locations are show on Figures 3 and 4. Groundwater was analyzed for VOCs, SVOCs, metals, ETPH, PCBs, and pesticides. None were detected above CTDEP standards for GB areas. *(Note the USEPA compared the results to the GWPC, which is not required for GB groundwater areas. They also used an outdated SWPC value for phenanthrene.)*

Monitoring well MW-6 was analyzed for PAHs and carbon range hydrocarbons by MA Department of Environmental Protection laboratory methods. PAHs were not detected. Carbon range hydrocarbons were detected but there are no CTDEP criteria for comparison.

4.2 Soil Investigation

The soil investigation completed in conjunction with this RAP included test pit excavations completed on March 6 and 6, 2010. Logical Environmental Solutions was retained for the test pit excavations.

Test pit locations and sample collection rationale are summarized below. The test pit logs are provided in Appendix B. Figures 3 and 4 depict the test pit locations. The soil analytical data are summarized in Table 1 and provided in Appendix C. ***Italicized*** and **bold** font indicates chemical detected above CTDEP cleanup criteria.

ID (Sample Depth)	Test Pit Depth(ft)	REC/LOCATION DESCRIPTION	SOIL COMMENTS	SOILS ANALYSIS
TP-101 (1-8')	8	Coal Ash/North Side Tailrace Fire Combustion	Light fine sand layer at 4' Brown fine- medium sand *	SVOCs, ETPH, Metals, PCBs
TP-102 (3')	8	Coal Ash/North Side Tailrace Fire Combustion	Light fine sand layer at 3' Possible coal fragments and dark soil*	*SVOCs*, ETPH, Metals, PCBs
TP-103 (2')	5.5	Coal Ash/North Side Tailrace Fire Combustion	Light fine sand layer at 1.5' Dark soil-coal fragments*	*SVOCs,* ETPH, Metals, PCBs
TP-104	5	Coal Ash/North Side Tailrace Fire Combustion	Coal fragments, metal slag layer	
TP-105 (1-2)	2.5	Coal Ash/North Side Tailrace Fire Combustion	Coal fragments & metal slag layer*	SVOCs, ETPH, *Metals(lead),* PCBs
TP-106	7	Coal Ash/North Side Tailrace	Brown silty, fine sand	
TP-107	5	Original Canal/Eastern Solid Waste Area	Some debris at surface Light brown fine – medium sand	
TP-108	3.5	Original Canal	Dark Brown fine – medium sand	
TP-109	6	Original Canal	Light brown fine- medium sand	
TP-110	10.5	No. 6 Fuel Oil UST	Brown fine- medium sand (no fuel oil odor)	
TP-111	7	No 6 Fuel Oil UST	Brown fine- medium sand (no fuel oil odor	
TP-112 (7')	8	Eastern Solid Waste Area	Some concrete, brick and metal, slag at surface. Brown fine- medium sand, some gravel.	SVOCs, ETPH, Metals, PCBs

ID (Sample Depth)	Test Pit Depth(ft)	REC/LOCATION DESCRIPTION	SOIL COMMENTS	SOILS ANALYSIS
			Fire brick, coal, slag, ash at 7-8'*	
TP-113	5	Eastern Solid Waste Area	Some wood, metal, tires, and slag at surface. Brown- fine medium sand. Coal fragments, trace white material (possible firebrick particles), and brick fragments.	
TP-114 (2')	2	Coal Ash/North Side Tailrace	Dark brown fine- medium sand. Light/white fine sand layer at 2 ' *	SVOCs, ETPH, Metals, PCBs
TP-115	7	Peninsular Area	Brown medium- coarse sand	
TP-116	8	Peninsular Area	Brown medium- coarse sand	
TP-117	6	Peninsular Area	Brown fine – medium sand Small pocket of slag at 4.5 '	
TP-118	7	Former Gas Works/Fill	Brown fine- medium sand Yellow medium sand at 7 ' Trace brick, glass	
TP-119 (3-6')	6	Former Gas Works/Fill	Brown fine- medium sand. Dark brown fine- medium sand, occasional brick fragment (3-6') *	SVOCs, ETPH, Metals, PCBs, Cyanide
TP-120	7.5	Former Gas Works/Fill	Brown fine- medium sand Dark brown fine- medium sand	
TP-121 (1-3')	7	Former Gas Works/Fill	Rubble, whitish material, brick, some metal (1-3') *	SVOCs, ETPH, Metals, PCBs, Cyanide
TP-122 (6')	6	Former Gas Works/Fill	Brown fine- medium sand White pasty material at 6' *	*SVOCs,* ETPH, Metals, PCBs, Cyanide

1. * Indicates sample collected for chemical analysis.
2. ***Italicized*** and **bold** font indicates chemical detected above CTDEP cleanup criteria.
3. Refer to laboratory reports for complete list of chemical analysis.
4. Samples were screened with field organic vapor analyzer- none detected.

Analytical results by REC are discussed in Section 5. General comments are provided below.

Many soil samples exceeded the RDEC and IDEC for arsenic of 10 parts per million (ppm). Compliance was achieved by conducting a statistical analysis allowed by the RSRs (95% upper confidence level of the arithmetic mean). The calculations are provided in Appendix D.

Soil analytical results were evaluated relative to disposal options. The soil analytical data to date does not indicate it is classified as a hazardous waste. Levels of ETPH from within the No. 6 fuel oil UST area will likely require the soil be treated at a thermal treatment facility or asphalt recycling facility. Soils from the gas works/fill area will likely qualify for disposal at a permitted solid waste landfill.

Some site characterization data gaps exist as stated by REC in Section 5.

4.3 Data Quality and Usability

All data were analyzed and evaluated by Connecticut Testing Laboratories using CTDEP's Reasonable Confidence Protocols (RCP). Certain RCP criteria were not met as noted on the Case Narrative forms included in Appendix C. A data quality and data usability evaluation is included in Appendix C.

Based on the data quality assessment and data usability evaluation, the data are usable to meet the data quality objectives set for this project.

5. Remedial Action Plan

The following is a description of the remedial action plan by REC. Preliminary cost estimates for implementing the remedial action plan are included in Table 2.

5.1 No. 6 Fuel Oil UST

Two 50,000-gallon concrete No. 6 fuel oil underground storage tanks previously existed onsite. The tanks were removed by a previous property owner circa January 1989. CTDEP records indicate some soil remediation was conducted at that time, but that residual contamination may exist.

5.1.1 Summary of Chemical Data

Figure 4 summarizes the soil analytical data for this REC. The USEPA site investigations encountered soil visibly contaminated with fuel oil, and ETPH is present in soil greater than the RSR cleanup criteria. Groundwater collected from MW-6 was analyzed for PAHs and carbon range hydrocarbons by MA Department of Environmental Protection analytical methods. PAHs were not detected. Carbon range hydrocarbons were detected, but there are no CTDEP criteria for comparison.

The supplemental soil analyses planned for this phase of the project was not successful. The excavator for the test pits could not reach to the required depth for sample collection.

5.1.2 Remediation Goal

The remediation goal is to mitigate potential direct exposure and pollutant mobility hazards associated with petroleum soil contamination. The PMC cleanup level for ETPH is 2500 ppm. Soil greater than 500 ppm (RDEC) but less than 2500 ppm can remain in place, greater than 4 feet below grade, with the implementation of an ELUR. It is the intent to complete the cleanup to 500 ppm for ETPH; if only 2500 ppm is achieved an ELUR preventing disturbance of the soils would be required.

5.1.3 Remediation Process

The approximate limits of contaminated soil are depicted on Figure 4.The estimated quantity of contaminated soil is 3700 tons (140 feet x 60 feet x 8 feet thick /27 cubic feet x 1.5 tons/cubic yards).

Regenesis was contacted to provide a preliminary design and quote for a chemical oxidation process. RegenOx is an advanced chemical oxidation technology that destroys contaminants

through chemical reactions. This product maximizes in-situ performance while using a solid alkaline oxidant that employs a sodium percarbonate complex with a multi-part catalytic formula. RegenOx directly oxidizes contaminants while its catalytic component generates a range of highly oxidizing free radicals that destroy target contaminants. The estimate for this technology is $350,000. The negative factors with this approach are the high concentrations of petroleum hydrocarbons in the soils, which makes the cleanup process uncertain, and potential negative impacts to groundwater quality.

For this reason soil excavation and disposal is recommended. The general remediation process is as follows:

- Prepare technical specifications, plans and bid documents for the excavation and disposal of fuel oil contaminated soil.
- Retain a contractor to remove and dispose of the contaminated soil. Clean overburden soil shall be removed and used as backfill.
- Depth of excavation to be approximately 15+ feet.
- Licensed Environmental Profession to oversee the work, determine final limits of excavation, and collect/analyze confirmation soil samples.
- Confirmation soil sample analysis will be for ETPH; select samples will also be analyzed for PAHs and aromatic VOCs.
- Contractor to backfill excavation area upon receipt of satisfactory soil confirmation samples.

5.2 Solid Waste Disposal (East Side of Site)

Various solid waste materials are present above and below the ground surface within the area shown on Figure 3. This includes concrete brick, metal, tires, wood, and general trash. Some slag is present as discussed in Section 5.4.

5.2.1 Summary of Chemical Data

Soil analysis has detected low concentrations of PAHs and metals, below CTDEP RDEC and PMC criteria. Groundwater monitoring well MW-5 is located within this REC. Low concentrations of benzene and PAHs were detected below applicable CTDEP groundwater criteria.

5.2.2 Remediation Goal

Remove and properly dispose solid waste material.

5.2.3 Remediation Process

- Prepare technical specifications, plans and bid documents for the removal and disposal of the solid waste.

- Retain a contractor to remove and dispose of the solid waste.
- Licensed Environmental Profession to oversee the work, determine final limits of excavation, and collect confirmation soil samples.
- Confirmation soil sample analysis will be for PAHs, ETPH, and lead. VOCs will be analyzed if elevated volatile organic field measurements are recorded.
- Contractor to backfill excavation area upon receipt of satisfactory soil confirmation samples.

5.3 Fire Combustion Materials

Most of the mill structures were destroyed by fire in 1999. The USEPA conducted a Removal Assessment and Removal Action to remove asbestos containing materials and demolition debris. This fire could have resulted in surface soils becoming contaminated with PAHs resulting from combustion.

5.3.1 Summary of Chemical Data

Section 4 summarizes soil sample results used to evaluate this REC. For near surface soils (0-2’), no contamination has been detected above CTDEP criteria attributable to the fire combustion. PAHs detected appear to be the results of coal fragments.

5.3.2 Remediation Goal

No further action is required for the REC. This REC overlaps with the Coal/Slag Fill Area, which is discussed and addressed below.

5.4 Coal/Slag Fill Area- North Side of Tailrace

The USEPA reported the presence of “ash like” material in this area based on test borings and test pit excavations. The supplemental investigation conducted in conjunction with this RAP encountered a light fine white sand material, which could have been confused with the “ash like” material. This supplemental investigation did encounter coal fragments and slag. This REC is now referred to as the Coal/Slag Fill Area- North Side of Tailrace, formerly Coal Ash Fill.

5.4.1 Summary of Chemical Data

A summary of the data relative to CTDEP numeric criteria is provided in Figure 3. The supplemental investigation encountered coal fragments and metal slag in thin layers intermixed with soil. PAHs and lead were detected above CTDEP RDEC and PAHs were detected above GB PMC. Representative soil samples were also analyzed for PAHs by SPLP procedures. Only TP-103 (2’), with the highest PAH concentrations, did not comply with CTDEP standards based on the SPLP analysis. This was a sample that included coal

fragments intermixed with soil. Chemical analysis of the light fine sand (formerly called "ash like" material) did not detect soil contamination above CTDEP criteria.

Notwithstanding the above PAH SPLP discussion, in accordance with Section 22a-133k-2(c)(4)(C) of the RSRs, the PMC does not apply to polluted fill if:

- Such fill is polluted only with coal ash, wood ash, coal fragments, or asphalt pavement.
- Such fill is not polluted with any volatile organic substances.
- The DEC applies.
- The substances are not affecting and will not affect the quality of an existing or potential public water supply or an existing private drinking water supply.
- Public water supply is available within 200 feet of the parcel.
- The placement of the fill was not prohibited by law at the time of placement.

This exemption for PAH PMC compliance will be used at this site. The PAH PMC issues are judged to be from coal fragments rather than slag, which consists of molten metal.

Groundwater monitoring wells MW-2 and MW-3 are downgradient of this REC. Groundwater analytical data to date detected phenanthrene just below the SWPC.

5.4.2 Remediation Goal

The remediation goal would be to render the RDEC exceedances soil inaccessible via site development activities. With the ELUR preventing disturbance, contaminated soil can remain below a structure, 4 feet below grade, or below pavement and 2 feet of sub-base material (clean fill). The approximate limit of areas required to be rendered inaccessible are depicted on Figure 5. Some additional soil sampling is required to refine this limit.

5.4.3 Remediation Process

- Work with a developer to coordinate/integrate site development features to render soil inaccessible to the maximum extent possible.
- For areas that cannot be made inaccessible with site development features, four feet of contaminated soil would require removal and proper disposal. Four feet of clean fill would be placed as backfill. This typically would apply to landscaped areas.
- Implement an ELUR in accordance with Section 22a-133q-1 of the Regulations of Connecticut State Agencies preventing disturbance and maintenance of the pavement, building or clean fill overlying the contaminated soil.
- Implementation of an ELUR requires, but is not limited to, subordination agreements with other parties holding an interest on the parcel (e.g. mortgagee, lessee, utility easements), an A-2 survey of the property and the ELUR area(s), a certificate of title, public notice and CTDEP approval.

- Licensed Environmental Professional to oversee the work.

5.5 Original Canal

A former old canal, along the northern side of the site, was filled circa 1893 with material of unknown quality. A portion of the former canal was located offsite.

5.5.1 Summary of Chemical Data

Section 4 summarizes soil sample results used to evaluate this REC. Some "ash like material" was reported in the EPA reports. SVOCs and lead were detected above the RDEC at two locations east of Building 10. Test pit observation conducted as part of this supplemental site investigation did not replicate the "ash like" material.

5.5.2 Remediation Goal

This REC and soil contamination will be addressed with the Coal/Slag Fill Area REC as discussed in Section 5.4.

5.6 Tailrace Sediments

Industrial wastewater was historically discharged to the tailrace and could have resulted in chemicals affecting the sediments and surface water quality. The specific chemical characteristics of the discharges are unknown.

5.6.1 Summary of Chemical Data

No sediment or surface water sampling has been conducted to date.

5.6.2 Data Gaps

Sediment and surface water sampling and chemical analysis is required to determine if remediation is required for this REC.

5.7 Peninsular Area

This REC is a peninsular of land between the mill tailrace and the Shetucket River. Fill has been placed in this area.

5.7.1 Summary of Chemical Data

The USEPA reported the presence of "ash like" material at one test pit location (TP-28); no soil contamination was detected. As part of this supplemental investigation, TP-116 was excavated adjacent to TP-28 and the "ash like" material was not observed. USEPA test pit

TP-27, detected SVOCs above the RDEC but below the IDEC. USEPA test pit TP-30 sampled a "black course material"; elevated SVOCs were detected above RDEC and GBPMC. This material was observed to be at several surface locations along a former canal extending through the peninsula, and consists of a mixture of asphalt like material (possible solidified No 6 fuel oil) with slag, coal, and ash fragments.

5.7.2 Remediation Goal

Remove and properly dispose of the asphalt like material and the soil near TP-27.

5.7.3 Remediation Process

- Prepare technical specifications, plans and bid documents for the removal and disposal of the asphalt like material and soil near TP-27.
- Retain a contractor to remove and dispose of the asphalt like material and soil near TP-27.
- Licensed Environmental Profession to oversee the work, determine final limits of excavation, and collect confirmation soil samples.
- Confirmation soil sample analysis will be for PAHs.
- Contractor to backfill excavation area upon receipt of satisfactory soil confirmation samples.

5.8 Former Gas Works/Fill

A relatively small former gas works partially existed onsite in the area show on Figure 2. It presumably serviced the former Baltic Mills. There is no visible evidence of this structure at this location. Mounds of earth fill also exist in this general area.

5.8.1 Summary of Chemical Data

The USEPA reported the presence of "black and white apparent ash" material at one test pit location (TP-33); elevated PAHs were detected above RDEC, IDEC and GB PMC. As part of the supplemental investigation, TP-122 was excavated near TP-33. A white pasty material was encountered at six feet and elevated PAHs were detected above RDEC and IDEC. Compliance was achieved for GB PMC based on SPLP PAH analysis.

5.8.2 Remediation Goal

The goal of remedial activities is to mitigate potential direct exposure and pollutant mobility hazards associated with soil contamination.

5.8.3 Remediation Process

It is unlikely that this area will be developed with structures or parking areas. It is separated from the main site by the tailrace, and is located near the Shetucket River. It is also unlikely that this material has suitable geotechnical properties to be used as fill (and render inaccessible) at other site development locations.

For this reason soil excavation and disposal is recommended. The approximate limits of contaminated soil are depicted on Figure 5.The estimated quantity of contaminated soil is 4500 tons (100 feet x 100 feet x 8 feet thick /27 cubic feet x 1.5 tons/cubic yards).

The general remediation process is as follows:

- Prepare technical specifications, plans and bid documents for the excavation and disposal of the contaminated soil.
- Retain a contractor to remove and dispose of the contaminated soil.
- Depth of excavation to be approximately 8+ feet.
- Licensed Environmental Professional to oversee the work, determine final limits of excavation, and collect/analyze confirmation soil samples.
- Confirmation soil sample analysis will be PAHs, ETPH and lead.
- Contractor to backfill excavation area upon receipt of satisfactory soil confirmation samples.

5.9 Weave Shed

The former weave shed is shown on Figure 2. All that remains is the concrete floor. No staining on the concrete floor or evidence of sumps/pits are apparent.

5.9.1 Summary of Chemical Data

The USEPA installed at well (MW-1) and collected two soil samples and one groundwater sample from this location. No chemicals were detected above CTDEP criteria or at concentrations that would suggest a release.

5.9.2 Data Gaps

Additional investigation will be required to confirm that no chemical releases have occurred at this REC.

5.10 Groundwater Monitoring

Groundwater monitoring is required where remediation is performed (including ELURs) and if a groundwater plume is detected (chemicals above background).

Compliance monitoring is achieved when four consecutive quarters of groundwater sample results comply with the SWPC and RVC.

Post remediation monitoring will be for two years after the compliance monitoring. Semi-annual monitoring will be conducted in April and September.

The groundwater monitoring plan will be finalized following completion of soil remediation. Groundwater monitoring wells will be required at RECs where a release occurred and remediation completed.

5.11 Confirmation Soil Sampling and Analysis

The following soil samples will be collected for laboratory analysis to confirm the limits of remediation by excavation.

- Sidewall soil confirmation samples will be collected for excavations equal or deeper than two feet, every 25 feet, or a minimum of one sample for each side excavation wall. They will be biased toward stained soils, soils with odors, and elevated organic vapor readings.
- The bottom excavation soil samples will be collected on a 25-foot grid pattern, except the Solid Waste Disposal Area (East Side), which will be every 50 feet.
- The confirmation soil samples will be analyzed for the chemicals as indicated by REC in Section 5.
- Laboratory analysis will be conducted using CTDEP reasonable confidence protocols.

6. Remediation Implementation

6.1 Regulatory Compliance

The Contractor will be responsible for compliance with all local, state, and federal laws and regulations, including health and safety requirements as appropriate.

The Owner, in conjunction with the LEP, will make the required Public Notice for remediation and for the proposed ELUR.

6.2 Soil Excavation and Handling

All contaminated soil will be handled as follows:

- The spillage, loss, or commingling or uncontrolled deposition of such material is minimized;
- Personal exposure to contaminants present in such materials is minimized;
- Any potential adverse impacts to the community and the surrounding environment from contaminants present in such materials are minimized; and
- All applicable federal, state, and local laws and regulations are complied with during soil handling.

Large stones and boulders (greater than 12 inches) will be segregated from excavated contaminated soil to the extent practical. Any excess soil will be removed from the boulders and the boulders will not be considered contaminated, unless saturated with soil.

Transportation vehicles used to move contaminated soil and sediments will be free from leaks and possible discharge openings will be securely closed during transportation and covered, as necessary. The Contractor will keep roadways free from dirt, dust, and contaminated soil. The contaminated soil shall not be so dry as to generate dust during handling. If necessary, the Contractor will spray clean water into the soil in order to eliminate dust generation.

6.3 Soil Storage

Soil can be stored on site in soil stockpile areas (SSAs) or watertight rolloffs. The SSAs will be kept covered at all times. The top liner will be secured/weighed down with sandbags placed on a liner and roped tires (or a combination thereof), or other approved material in such a manner as to prevent the liner from being dislodged by wind.

Geomembrane liners will be placed and maintained within the SSA to prevent precipitation contact with the contaminated soil. The contaminated soil shall be placed on pavement or a 30 mil liner, with surrounding berms. Separate liners will be sufficiently overlapped to prevent infiltration of precipitation. Liners will be placed on the SSAs to allow precipitation to drain outside of the SSA.

The SSAs will be inspected to ensure that stockpile covers are in place and secure, the berms are intact, no soils are migrating from the SSAs, and the area around each SSA is generally clean. If SSA covers are displaced, they will be replaced and re-secured. If SSA covers are damaged, they will be replaced.

The Contractor will monitor and restrict access to the SSA as necessary to prevent unauthorized use, mismanagement of contaminated soil, or the unknowing entry of unauthorized personnel. The Contractor shall also comply with applicable provisions of the CTDEP *General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer).*

6.4 Waste Management

The Contractor will be required to use licensed and properly permitted treatment and/or disposal facilities for contaminated soils, subject to review and approval of the licensed environmental professional. Prior to being transported off site, all materials will be properly characterized and profiled for disposal. Waste disposal will be approved as required and the intended disposal facility will confirm its acceptance of the waste prior to transport. ***Any additional waste characterization is the responsibility of the Contractor.***

Liquid wastes that may be generated will be disposed of at a permitted, off-site facility.

Waste removal from the site will be documented by manifest or bill of lading. It will be the responsibility of the Contractor to prepare the manifests or bills of lading. The property owner or representative will sign the manifests with proper notice.

6.5 Groundwater Dewatering

Any groundwater dewatering required for the completion of this project will include provisions for proper treatment and disposal of groundwater. For any contaminated groundwater to be treated and discharged to the sanitary sewer, the Contractor will be required to obtain the necessary CTDEP *General Permit for Discharge of Groundwater Remediation Wastewater to the Sanitary Sewer.* Minimum treatment will be a frac tank; discharge limits specified in CTDEP General Permit must be met.

6.6 Excavation Backfill

Imported backfill material shall be widely graded sand and gravel, free of clay, organic matter, surface coatings and other deleterious materials, and conforming to the following gradation requirements. Soil finer than the No. 200 sieve shall be non-plastic.

Sieve Size	Percent Passing by Weight
6 inches	100
3 inches	80 – 100
No. 4	20 – 100
No. 100	0 – 10
No. 200	0 – 5

Imported material from offsite sources shall be earth only, free from brush, stumps, logs, roots, debris, and organic or other objectionable material. The backfill material shall also meet the following chemical clean criteria. One sample of each 1,000 tons of backfill shall be collected and analyzed by the Contractor per the following criteria.

1. No VOCs (EPA Method 8260) (Detection Limit 10 parts per billion [ppb])

2. No PCBs (EPA Method 8082) (Detection Limit 0.5 ppm)

3. No metals greater than background concentrations (total RCRA-8 metals plus copper, zinc, and nickel). The licensed environmental professional will determine if background concentrations are exceeded.

4. No semivolatile organic compounds (EPA Method 8270) (Detection Limit 100 ppb)

5. No ETPH (Detection Limit 25 ppm)

The backfill shall be compacted to eliminate settlement.

6.7 Fugitive Dust Emission/Odor Control

The Contractor will be required to implement a fugitive dust/odor suppression program. The Contractor will be required to prevent the off-site migration of particulate matter, to prevent dust exposure, and to mitigate objectionable odors.

6.8 Erosion and Sedimentation Control

The Contractor shall implement best management practices relative to soil erosion and sedimentation control and comply with any permitting requirements of the town. At a

minimum, a silt fence shall be installed and maintained between the canal, river and any excavation. Surface water runoff shall be prevented from entering the excavation.

6.9 Decontamination

On-site decontamination of heavy equipment will be performed as necessary to minimize cross contamination. Dry decontamination methods will typically be used on trucks and heavy equipment. Decontamination will be performed within the work area and soils will be disposed with other contaminated material.

6.10 Remedial Action Report

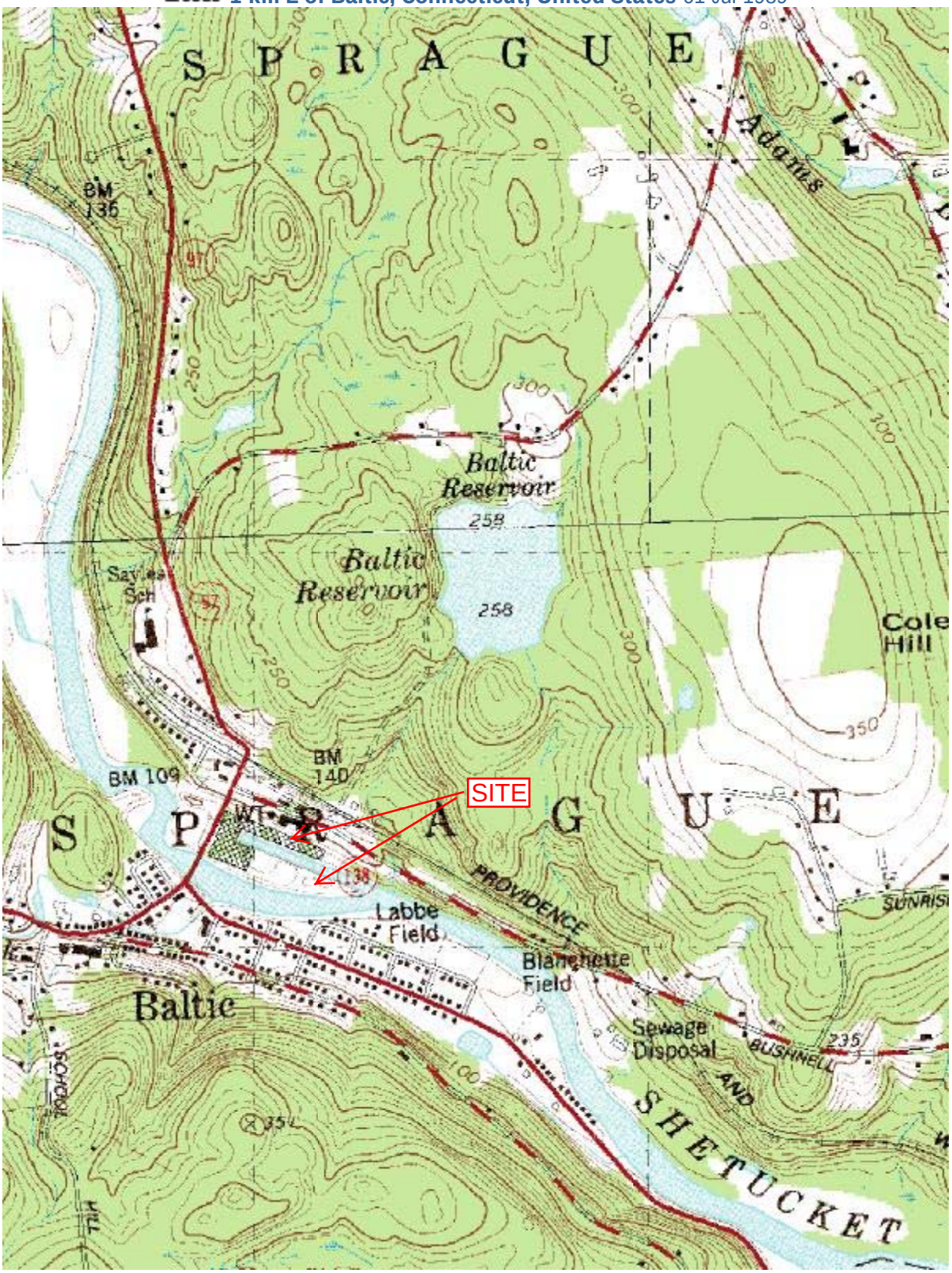
A Remedial Action Report (RAR) will be prepared by the licensed environmental professional following the completion of the site cleanup. This report will be submitted following implementation of the RAP, excluding the post-remediation groundwater monitoring. The RAR will document that the project has been undertaken in accordance with the RAP and will include the following:

- Brief overview project narrative
- Off-site soil manifest documentation, quantities, and disposal facilities
- Confirmation soil sample laboratory results, locations, depths, and summary table indicating compliance with RAP goals
- Data Quality and Usability Evaluation
- Final Remediation Plan(s) showing limits of excavations, depths of excavations, confirmation sample locations/depths, and limits of soil rendered inaccessible.
- Discussion of any unanticipated encountered waste on site and characterization/ disposal documentation
- Final Conceptual Site Model
- Representative remediation photographs
- Any suggested changes to the post-construction groundwater monitoring plan or conceptual site model based on findings and/or observations during remediation

Figures

Send To Printer Back To MSR Maps Change to 11x17 Print Size Show Grid Lines Change to Landscape

USGS **1 km E of Baltic, Connecticut, United States** 01 Jul 1989



m 200 400 600
yds 200 400 600

Image courtesy of the U.S. Geological Survey

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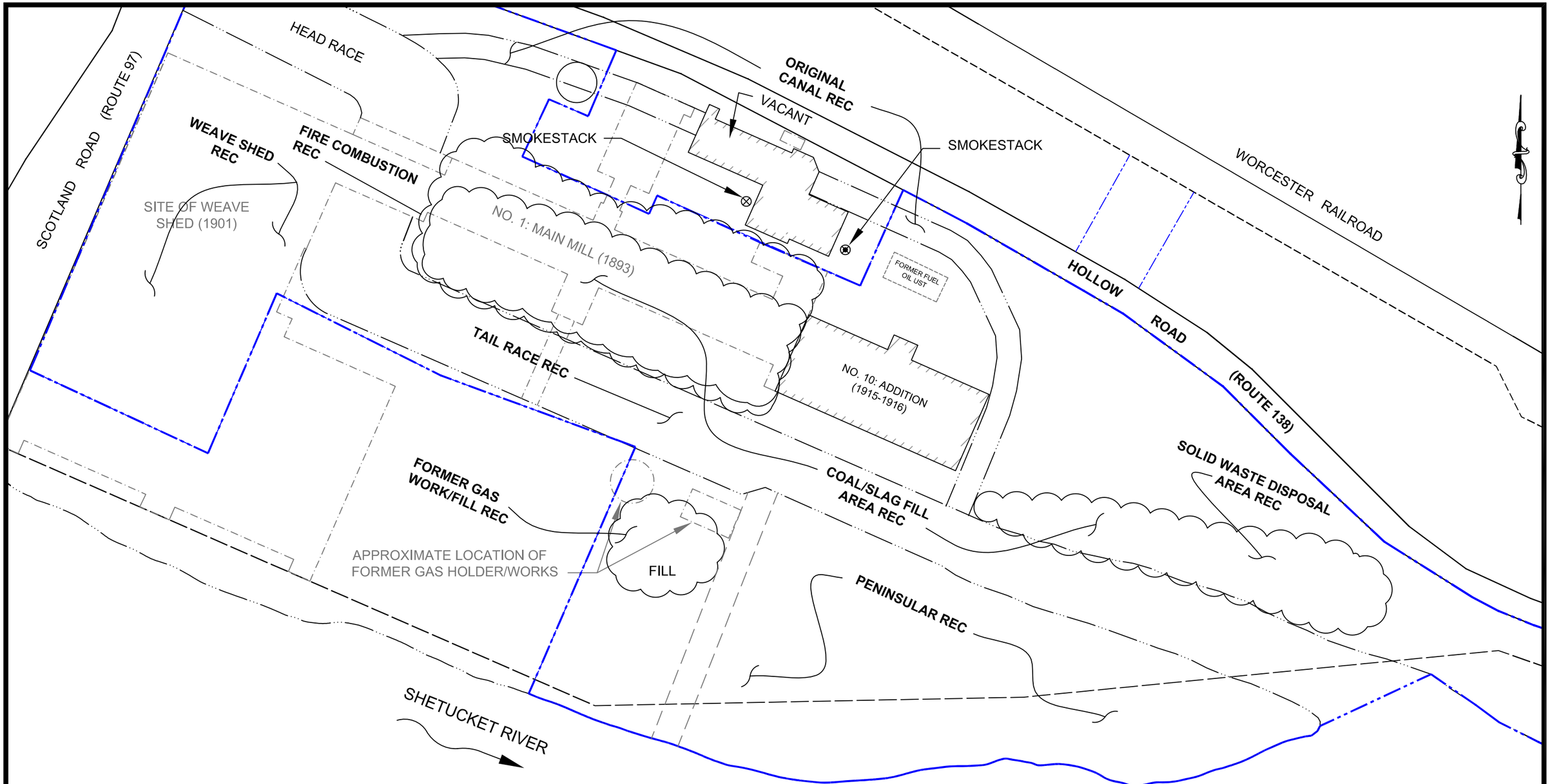
FIGURE 1 SITE LOCATON



SOURCES:

1. SITE ASSESSOR'S MAPS, SCALE: 1"=100' AND 1"=200'.
2. PLAN MADE FOR THE BALTIC MILLS COMPANY, BALTIC, CONN., PREPARED BY CHANDLER & PALMER, SCALE: 1"=100', DATE: 1969.
3. SITE PLAN, FROM HISTORIC AND ARCHITECTURAL RESOURCE SURVEY OF THE TOWN OF SPRAGUE, 2002.
4. PLAN OF A PORTION OF PROPERTY OF BALTIC MILLS, ROUTE 138, BALTIC, CONN., PREPARED BY KING & MULLEN LAND SURVEYORS, DATE: JULY 1, 1985 (PERTAINING TO 27 BUSHNELL HOLLOW ROAD).
5. AES FIGURE 3 SAMPLE LOCATIONS, DECEMBER 16, 2009.

LEGEND

REC	RECOGNIZED ENVIRONMENTAL CONDITION
— · — · —	PROPERTY LINE

0' 100 200

1"=100'

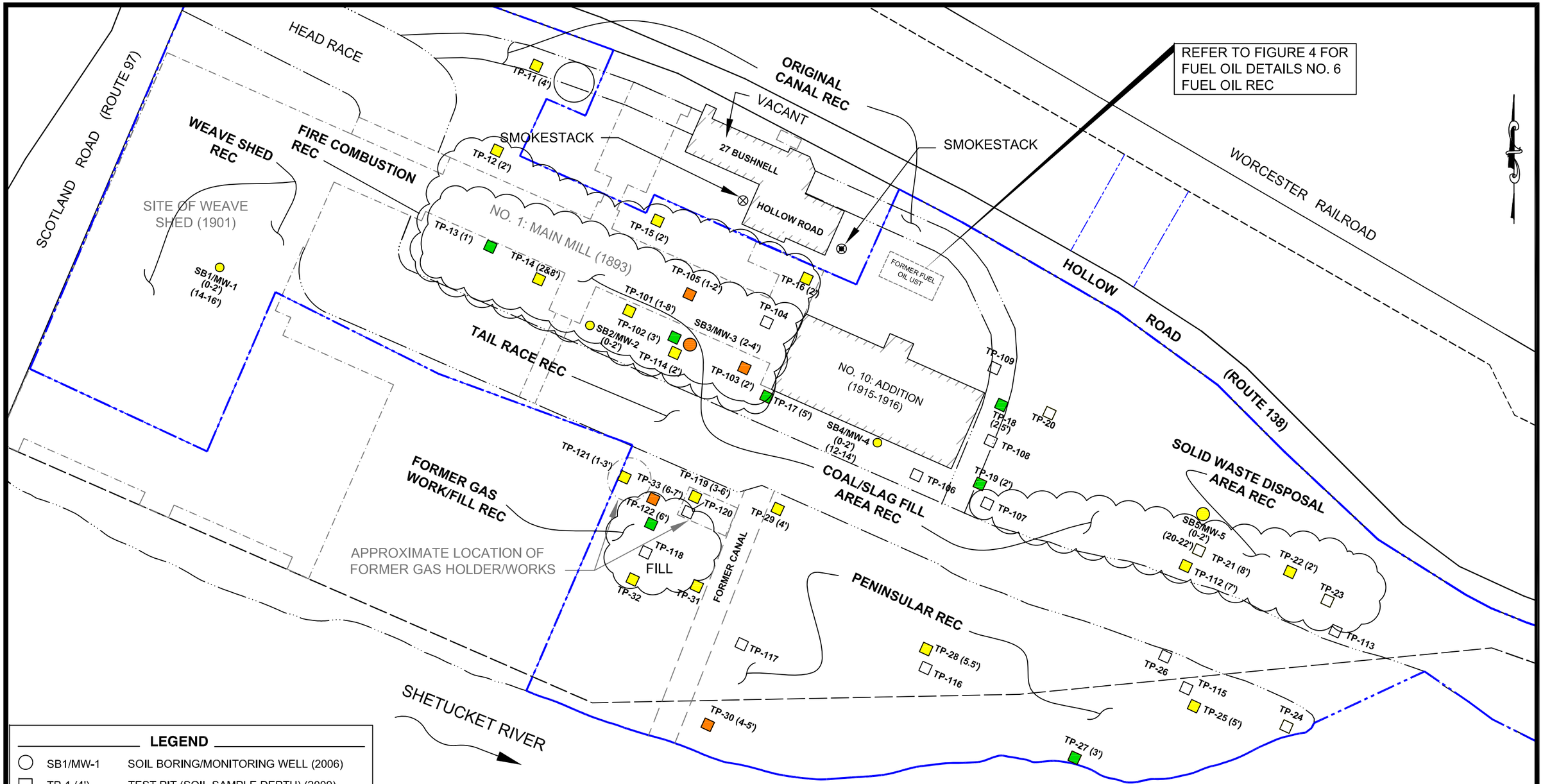
PAUL BURGESS, LLC ENVIRONMENTAL CONSULTING, ENGINEERING & PERMITTING	36 ELM STREET STONINGTON, CT 06378
	FIGURE 2

SITE SCHEMATIC PLAN

SITE LOCATION:
BALTIC MILLS SITE
29 BUSHNELL HOLLOW ROAD
SPRAGUE, CONNECTICUT

SCALE:	DATE PREPARED:	DRAWN BY:	CLIENT:
AS SHOWN	AUGUST 2010	JLS	TOWN OF SPRAGUE

BALTIC MILLS/SS PLAN



LEGEND

SB1/MW-1	SOIL BORING/MONITORING WELL (2006)
TP-1 (4')	TEST PIT (SOIL SAMPLE DEPTH) (2009)
TP-101 (1-8')	TEST PIT (SOIL SAMPLE DEPTH) (2010)
	EXCEEDS RDEC AND GB PMC
	EXCEEDS RDEC
	NO SAMPLE ANALYZED
	SAMPLE ANALYZED, BELOW CTDEP STANDARDS
REC	RECOGNIZED ENVIRONMENTAL CONDITION
	PROPERTY LINE

SOURCES:

1. SITE ASSESSOR'S MAPS, SCALE: 1"=100' AND 1"=200'.
2. PLAN MADE FOR THE BALTIC MILLS COMPANY, BALTIC, CONN., PREPARED BY CHANDLER & PALMER, SCALE: 1"=100', DATE: 1969.
3. SITE PLAN, FROM HISTORIC AND ARCHITECTURAL RESOURCE SURVEY OF THE TOWN OF SPRAGUE, 2002.
4. PLAN OF A PORTION OF PROPERTY OF BALTIC MILLS, ROUTE 138, BALTIC, CONN., PREPARED BY KING & MULLEN LAND SURVEYORS, DATE: JULY 1, 1985 (PERTAINING TO 27 BUSHNELL HOLLOW ROAD).
5. AES FIGURE 3 SAMPLE LOCATIONS, DECEMBER 16, 2009.

PAUL BURGESS, LLC
ENVIRONMENTAL CONSULTING, ENGINEERING & PERMITTING

36 ELM STREET
STONINGTON, CT 06378

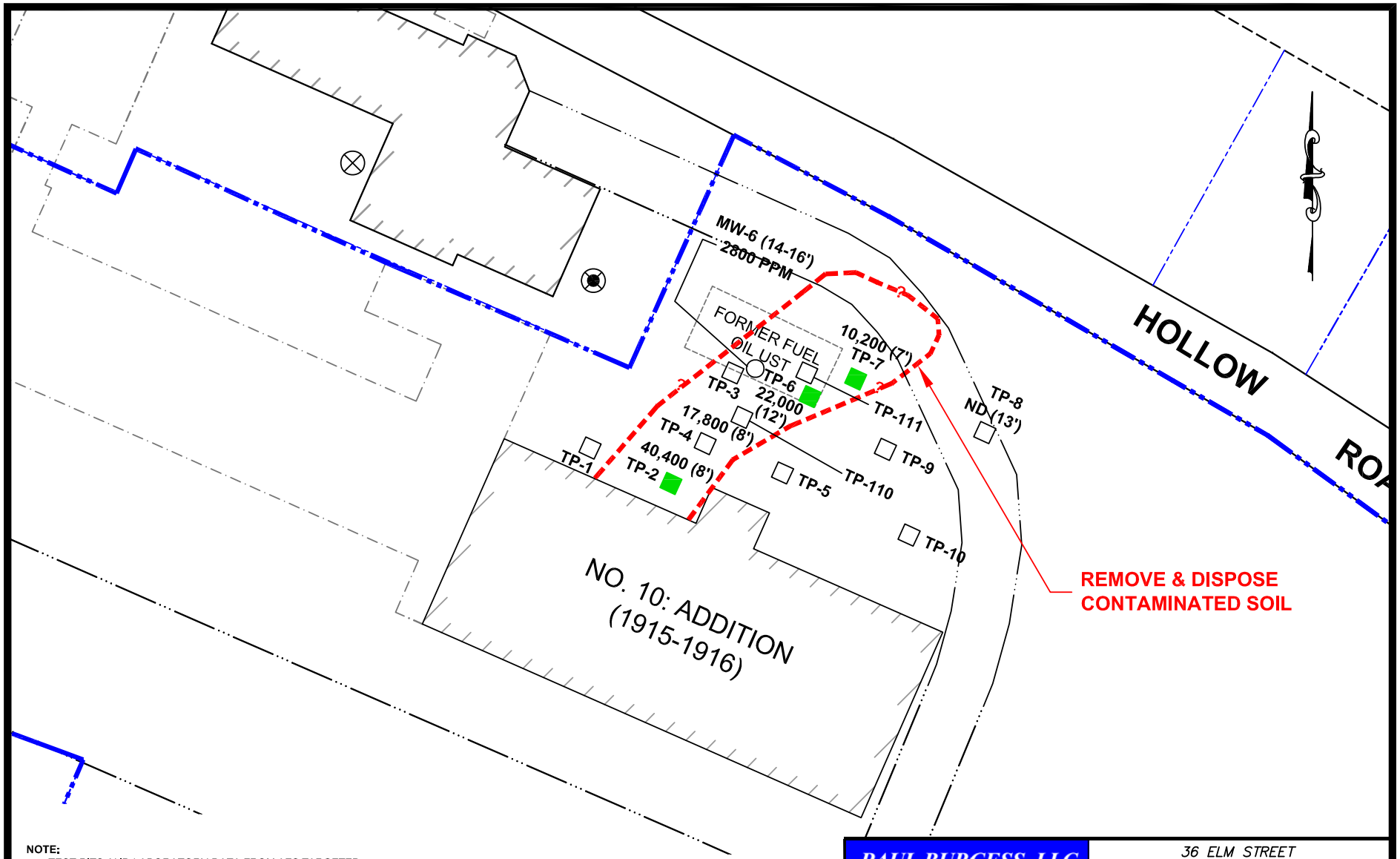
FIGURE 3

SUMMARY OF SOIL ANALYTICAL DATA

SITE LOCATION:
BALTIC MILLS SITE
29 BUSHNELL HOLLOW ROAD
SPRAGUE, CONNECTICUT

SCALE:	DATE PREPARED:	DRAWN BY:	CLIENT:
AS SHOWN	AUGUST 2010	JLS	TOWN OF SPRAGUE

BALTIC MILLS/SS PLAN



NOTE:
TEST PITS AND LABORATORY DATA FROM AES TARGETED BROWNFIELDS ASSESSMENT REPORT, DECEMBER 16, 2009.

LEGEND

TP-1	TEST PIT (AES)
40,400	ETPH (PPM)
ND	NOT DETECTED (ETPH)
	APPROXIMATE LIMITS OF FUEL OIL CONTAMINATION
TP-2	VISUAL EVIDENCE OF FUEL OIL
	PROPERTY LINE

0' 30' 60' 120'
1"=60'

BALTIC MILLS/SS PLAN

PAUL BURGESS, LLC
ENVIRONMENTAL CONSULTING, ENGINEERING & PERMITTING

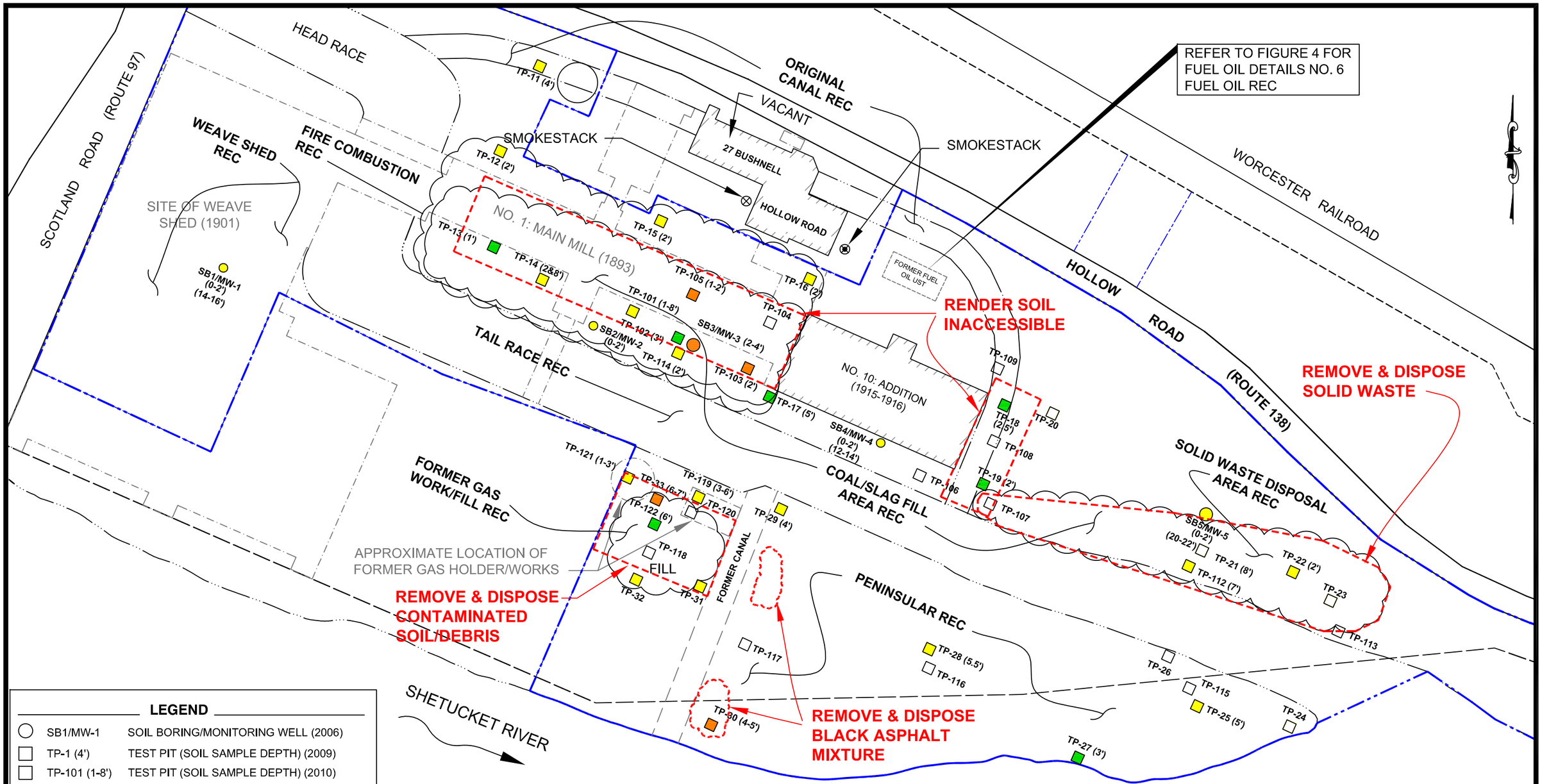
36 ELM STREET
STONINGTON, CT 06378

FIGURE 4

SUMMARY OF FUEL OIL DATA

SITE LOCATION:
BALTIC MILLS SITE
29 BUSHNELL HOLLOW ROAD
SPRAGUE, CONNECTICUT

SCALE:	DATE PREPARED:	DRAWN BY:	CLIENT:
AS SHOWN	AUGUST 2010	JLS	TOWN OF SPRAGUE



LEGEND

SB1/MW-1	SOIL BORING/MONITORING WELL (2006)
TP-1 (4')	TEST PIT (SOIL SAMPLE DEPTH) (2009)
TP-101 (1-8')	TEST PIT (SOIL SAMPLE DEPTH) (2010)
	EXCEEDS RDEC AND GB PMC
	EXCEEDS RDEC
	NO SAMPLE ANALYZED
	SAMPLE ANALYZED, BELOW CTDEP STANDARDS
REC	RECOGNIZED ENVIRONMENTAL CONDITION
	PROPERTY LINE
	APPROXIMATE LIMITS OF REMEDIATION SUBJECT TO FIELD VERIFICATION

SOURCES:

1. SITE ASSESSOR'S MAPS, SCALE: 1"=100' AND 1"=200'.
2. PLAN MADE FOR THE BALTIC MILLS COMPANY, BALTIC, CONN., PREPARED BY CHANDLER & PALMER, SCALE: 1"=100', DATE: 1969.
3. SITE PLAN, FROM HISTORIC AND ARCHITECTURAL RESOURCE SURVEY OF THE TOWN OF SPRAGUE, 2002.
4. PLAN OF A PORTION OF PROPERTY OF BALTIC MILLS, ROUTE 138, BALTIC, CONN., PREPARED BY KING & MULLEN LAND SURVEYORS, DATE: JULY 1, 1985 (PERTAINING TO 27 BUSHNELL HOLLOW ROAD).
5. AES FIGURE 3 SAMPLE LOCATIONS, DECEMBER 16, 2009.

PAUL BURGESS, LLC
ENVIRONMENTAL CONSULTING, ENGINEERING & PERMITTING

36 ELM STREET
STONINGTON, CT 06378

FIGURE 5

REMEDIATION PLAN

SITE LOCATION:
BALTIC MILLS SITE
29 BUSHNELL HOLLOW ROAD
SPRAGUE, CONNECTICUT

SCALE:	DATE PREPARED:	DRAWN BY:	CLIENT:
AS SHOWN	AUGUST 2010	JLS	TOWN OF SPRAGUE

BALTIC MILLS/SS PLAN

Tables

TABLE 1

March 2010 Soil Analytical Data
Baltic Mills

SVOCs by EPA Method 8270C (ug/kg)

Sample Name/Depth Parameter	RES DEC	I/C DEC	Soil PMC GB	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')	TP-122 (6')
Aniline	107,000	NE	1200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1,000,000	2,500,000	84,000	ND	ND	3,510.0	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1,000,000	2,500,000	84,000	ND	107.0	10,700.0	ND	ND	ND	ND	ND	ND	218.0
Anthracene	1,000,000	2,500,000	400,000	179.0	206.0	49,000.0	ND	ND	ND	108.0	ND	ND	174.0
Benzo(a)anthracene	1,000	7,800	1,000	665.0	894.0	**122,000.0**	ND	ND	220.0	398.0	275.0	ND	**4,670.0**
Benzo(a)pyrene	1,000	1,000	1,000	616.0	731.0	**93,100.0**	ND	ND	174.0	348.0	252.0	ND	**6,920.0**
Benzo(b)fluoranthene	1,000	7,800	1,000	970.0	**1,200.0**	**128,000.0**	ND	122.0	259.0	525.0	403.0	ND	**9,100.0**
Benzo(g,h,i)perylene	1,000,000	2,500,000	42,000	ND	ND	34,900.0	ND	ND	ND	ND	ND	ND	3,130.0
Benzo(k)fluoranthene	8,400	78,000	1,000	318.0	509.0	**55,700.0**	ND	ND	102.0	160.0	127.0	ND	**2,850.0**
bis(2-Chloroethoxy) methane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl) Ether	1,000	5,200	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	8,800	82,000	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis-(2-Ethylhexyl) phthalate	44,000	410,000	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	500,000	1,000,000	82,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	1,000,000	2,500,000	200,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	31,000	290,000	1,000	100.0	ND	**19,200.0**	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1,000,000	2,500,000	110,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	339,000	2,500,000	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	270,000	2,500,000	5,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenylether	500,000	1,000,000	82,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	84,000	780,000	1,000	713.0	912.0	**108,000.0**	ND	110.0	212.0	480.0	345.0	ND	**3,740.0**
Dibenzo(a,h)anthracene	1,000	1,000	1,000	ND	ND	**14,500.0**	ND	ND	ND	ND	ND	ND	715.0
Dibenzofuran	270,000	2,500,000	5,600	ND	ND	**16,500.0**	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	203,000	NE	4,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	1,400	13,000	330	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	1,000,000	1,000,000	1,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	1,000,000	1,000,000	1,100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1,000,000	2,500,000	28,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	140,000	2,500,000	2,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	140,000	2,500,000	2,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	68,000	2,000,000	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 1

March 2010 Soil Analytical Data
Baltic Mills

Sample Name/Depth Parameter	RES DEC	I/C DEC	Soil PMC GB	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')	TP-122 (6')
Di-n-Butylphthalate	1,000,000	2,500,000	140,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate	1,000,000	2,500,000	20,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000,000	2,500,000	56,000	1,740.0	1,530.0	**225,000.0**	ND	178.0	397.0	755.0	526.0	130.0	8,490.0
Fluorene	1,000,000	2,500,000	56,000	ND	ND	13,300.0	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1,000	3,600	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	7,900	73,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	470,000	2,500,000	9,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	44,000	410,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1,000	7,800	1,000	ND	ND	**34,300.0**	ND	ND	ND	ND	ND	ND	**3,300.0**
Isophorone	640,000	2,500,000	7,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	474,000	2,500,000	9,800	ND	ND	3,970.0	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	1,000,000	2,500,000	70,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	340,000	2,500,000	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	4,100	1,200,000	1,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	200,000	2,500,000	4,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	200,000	2,500,000	4,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1,000,000	2,500,000	56,000	ND	ND	3,320.0	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	34,000	1,000,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	540,000	2,500,000	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	1,000	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	130,000	1,200,000	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000,000	2,500,000	40,000	922.0	802.0	**148,000.0**	ND	142.0	248.0	382.0	265.0	ND	139.0
Pentachloronitrobenzene	2,400	NE	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5,100	48,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	1,000,000	2,500,000	800,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1,000,000	2,500,000	40,000	1,570.0	1,280.0	**182,000.0**	ND	166.0	326.0	706.0	481.0	ND	8,170.0
Pyridine	7,000	NE	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	20,000	NE	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	680,000	2,500,000	14,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1,000,000	2,500,000	140,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	56,000	520,000	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Comment					PMC OK Based on SPLP								PMC OK based on SPLP

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

SPLP PAHS by EPA Method 8270C (ug/L)

Sample Name/Depth Parameter	10 x GWPC (µg/L)	TP-102 (3')	TP-103 (2')	TP-122 (6')
Acenaphthene	4,200	ND	11.0	ND
Acenaphthylene	4,200	ND	18.0	ND
Anthracene	20,000	ND	24.0	ND
Benzo(a)anthracene	0.6	ND	**2.9**	ND
Benzo(a)pyrene	2.0	ND	0.4	ND
Benzo(b)fluoranthene	0.8	ND	**0.93**	0.45
Benzo(g,h,i)perylene	2,100	ND	ND	ND
Benzo(k)fluoranthene	5	ND	ND	ND
Carbazole	100	ND	84.0	ND
2-Chloronaphthalene	5,600	ND	ND	ND
Chrysene	48	ND	ND	ND
Dibenzo(a,h)anthracene	2	ND	ND	ND
Fluoranthene	2,800	ND	26.0	4.0
Fluorene	2,800	ND	24.0	ND
Indeno(1,2,3-cd)pyrene	2	ND	ND	ND
2-Methylnaphthalene	490	ND	12.0	ND
Naphthalene	2,800	ND	14.0	ND
Phenanthrene	2,000	2.9	123.0	0.48
Pyrene	2,000	ND	19.0	3.0

*Notes follow last page of Table 1

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

Metals (mg/kg)

Sample Name/Depth Parameter	RES DEC (mg/kg)	I/C DEC (mg/kg)	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')	TP-122 (6')
Arsenic	10	10	5.5	**16.9**	4.5	**14.5**	**10.5**	**10.7**	6.7	7.7	7.4	3.1
Barium	4,700	140,000	126	36	28	152	82	36	35	35	41	42
Cadmium	34	1,000	ND	ND	ND	0.8	ND	ND	ND	ND	ND	0.8
Chromium, Total	100	100	10.8	6.3	8.4	15.6	8.5	8.3	11.1	10.1	6.3	4.5
Lead	400	1,000	109	382	144	**9100**	21.1	102	282	288	135	6.5
Mercury	20	610	0.06	0.09	0.03	ND	0.04	ND	0.05	0.05	0.09	0.35
Selenium	340	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	340	10,000	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND
Sample Comment				Arsenic OK based on 95% UCL		Arsenic OK based on 95% UCL	Arsenic OK based on 95% UCL	Arsenic OK based on 95% UCL				

*Notes follow last page of Table 1

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

SPLP Metals (mg/L)

Sample Name/Depth Parameter	Soil PMC GB	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')	TP-122 (6')
Arsenic	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium, Total	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	0.15	0.008	0.038	0.016	**0.283**	ND	ND	0.045	0.045	0.008	ND
Selenium	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

*Notes follow last page of Table 1

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

ETPH (mg/kg)

Sample Name/Depth	RES DEC	I/C DEC, GB PMC	ETPH	Sample Comment
TP-101 (1-8')	500	2500	ND	
TP-102 (3')	500	2500	76	
TP-103 (2')	500	2500	286	
TP-105 (1-2')	500	2500	ND	
TP-112 (7')	500	2500	ND	
TP-114 (2')	500	2500	ND	
TP-119 (3-6')	500	2500	ND	
TP-1190	500	2500	ND	
TP-121 (1-3')	500	2500	ND	
TP-122 (6')	500	2500	124	

*Notes follow last page of Table 1

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

Sample Name/Depth Parameter	RES DEC	I/C DEC	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-121 (1-3')	TP-122 (6')	TP- 1190
PCBs, Total (mg/kg)	1	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1016			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Flashpoint (F)			>200	>200	>200	>200	>200	>200	>200	>200	>200	NA
pH			8.1	8.5	8.7	8.3	7.3	8.6	7.8	8.4	8.3	NA
Specific Conductivity (umhos/cm)			156	113	95	119	73	109	156	120	147	NA
Reactive Cyanide (mg/kg)			ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Reactive Sulfide (mg/kg)			ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
TCLP Lead			0.448	0.873	0.225	NA	NA	0.183	1.4	0.09	NA	NA
Cyanide, Total	1,400	41,000							ND	ND	28.0	ND
Sample Comments												

*Notes follow last page of Table 1

TABLE 1

Soil Analytical Data
Baltic Mills
Baltic, Connecticut

Notes:

CT RSRs - Connecticut Remediation Standard Regulations
PMC GB - Pollutant Mobility Criteria for 'GB' area
RES DEC - Residential Direct Exposure Criteria
I/C DEC - Industrial/Commercial Direct Exposure Criteria
BDL - Below Detectable Limit
ETPH- Extractable Total Petroleum Hydrocarbons
SPLP - Synthetic Precipitate Leaching Procedure
VOCs - Volatile Organic Compounds
PAHs - Polycyclic Aromatic Hydrocarbons
Shade indicates detected result exceeds the applicable CTDEP Standard
NE - indicates CTDEP standard not established
N/A - Not Analyzed
mg/kg = milligrams per kilogram or ppm
µg/kg = micrograms per kilogram or ppb
µg/L = micrograms per liter or ppb
mg/L = milligrams per liter or ppm
ppb = parts per billion
ppm = parts per million

TABLE 2
BALTIC MILLS
PRELIMINARY REMEDIAL ACTION PLAN COST ESTIMATE

Recognized Environmental Condition/Task	**Description**	**Calculation/Description**	**Cost Estimate**
No. 6 Fuel Oil Area	Soil Remediation	140' x 60' x 8 ' (thick) /27 x 1.5 3700 tons @ $80/ton	$ 296,000
Solid Waste Disposal (East Side)	Solid Waste Removal	Allowance	$ 30,000
Coal/Slag Fill Area	Render Soil Inaccessible with Development	Pavement/Sub-base, Building, or 4 feet clean fill.	Considered Predominately Site Development Cost
	PMC Compliance	Supplemental Site Characterization to Refine Inaccessible Limits	$ 7,000
Tailrace Sediments	Investigate	Sediment Sampling/Analysis	$ 7,000
Peninsular	Asphaltic Material Remediation/TP-27	Allowance	$ 10,000
Former Gas Works/Fill	Soil Remediation	100' x 100' x 8' (thick)/27 x 1.5 4500 tons @ $80/ton	$ 360,000
Weave Shed	Further Investigate	Soil Sampling/Analysis	$7,000
Licensed Environmental Professional Consulting	Cleanup Plans/Specifications, Oversight, Confirmation Sampling, Report Documentation	Estimate	$ 50,000
Groundwater Monitoring	Install Addition Wells After Soil Cleanup	Estimate	$ 5,000
	One Year Quarterly Compliance Monitoring (10 wells-PAHs, AVOCs, Metals, ETPH)	Estimate	$25,000
	Two Years Semiannually Post Remediation Monitoring	Estimate	$28,000
	Final Report	Estimate	$ 3,000
		Subtotal	$ 828,000
		Contingency (20%)	$ 165,600
		TOTAL	$ 994,000

Note- These costs estimates are preliminary and are subject to change/ refinement based on additional information/investigation and actual field conditions. Estimate does not include legal fees associated with environmental land use restrictions.

Appendix A

Summary of Previous Analytical Data

Tables are from previous USEPA reports for this site. Annotations on the tables are by Paul Burgess, P.E., LEP.

Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

EPA DATA 2009

Sample Identification		TP-02	TP-04	TP-04	TP-06	TP-06	TP-07	TP-08	TP-08	Trip Blank	TP-11	TP-12	TP-13	TP-14	TP-14	TP-14
Sample Depth (ft.)		8	8	8	6	12	14	4	13		4	2	1	2	2	8
Sample Date		5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009
Group Number		1	1	1	1	1	1	1	1	NA	2	2	2	2	2	2
	RES DEC (mg/kg)			Duplicate											Duplicate	
Total Metals																
Arsenic	10	5.5	6.2	4.9	4.8	--	ND	5.1	--	--	5.6	6.2	5.1	6.9	6.2	4.8
Beryllium	2	0.21	0.2	0.2	0.2	--	0.11	0.22	--	--	0.13	0.19	0.12	0.1	0.13	0.17
Cadmium	34	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Chromium	3900	19	13.7	18.3	12.3	--	22.2	15.2	--	--	8.8	29.1	10.9	7	7	12.6
Copper	2500	9	11.4	10.5	9.9	--	21.3	9.8	--	--	8.8	14.3	18.8	5.8	6.1	8.7
Lead	400	6.5	12.5	10.8	13.7	--	ND	ND	--	--	ND	97.4	**853**	27.6	27.2	37.2
Mercury	20	ND	ND	ND	0.036	--	ND	ND	--	--	ND	0.078	0.095	ND	ND	ND
Nickel	1400	14	11.1	12.4	10.2	--	18.1	10.8	--	--	7.1	15	8.1	5.3	5.2	8.6
Zinc	20000	12.4	16.6	16.9	16.2	--	28.1	12.3	--	--	9.1	59.2	24.8	12.1	12.3	17
Volatile Organic Compounds / Low Level																
1,2-Dibromoethane	0.007	ND	ND	ND	--	ND	ND	--	ND	ND	--	--	--	--	--	--
1,4-Dioxane	0.2	ND	ND	ND	--	ND	ND	--	ND	ND	--	--	--	--	--	--
Volatile Organic Compounds / Methanol																
1,2,4-Trimethylbenzene	500	ND	ND	ND	--	0.274		--	ND	ND	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0.44	<1.57	ND	ND	--	<0.968	<0.973	--	ND	ND	--	--	--	--	--	--
1,2-Dibromoethane	0.007	<0.261	ND	ND	--	<0.161	<0.162	--	ND	<0.05	--	--	--	--	--	--
1,2-Dichlorobenzene	500	0.303	ND	ND	--	0.21	ND	--	ND	ND	--	--	--	--	--	--
1,4-Dichlorobenzene	26	1.06	ND	ND	--	0.591	ND	--	ND	ND	--	--	--	--	--	--
4-Isopropyltoluene	500	2.07	ND	ND	--	0.907	0.266	--	ND	ND	--	--	--	--	--	--
Acrylonitrile	1.1	<2.09	ND	ND	--	<1.29	<1.3	--	ND	ND	--	--	--	--	--	--
Chlorobenzene	500	1.33	ND	ND	--	0.839			ND	ND	--	--	--	--	--	--
Ethylbenzene	500	3.21	ND	ND	--	2.27	0.86	--	ND	ND	--	--	--	--	--	--
Isopropylbenzene	500	2.19	ND	ND	--	1.13	0.646	--	ND	ND	--	--	--	--	--	--
Naphthalene	1000	61.6 D	ND	ND	--	30.3	21.9	--	ND	ND	--	--	--	--	--	--
n-Butylbenzene	500	5.19	ND	ND	--	2.81	1.56	--	ND	ND	--	--	--	--	--	--
n-Propylbenzene	500	3.58	ND	ND	--	2	1.12	--	ND	ND	--	--	--	--	--	--
sec-Butylbenzene	500	2.54	ND	ND	--	1.34	0.996	--	ND	ND	--	--	--	--	--	--
Xylene O	500	0.313	ND	ND	--	0.345		--	ND	ND	--	--	--	--	--	--

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.
ND -Not Detected
-- Denotes Not Analyzed
< indicates less than laboratory detection limits.
C = Composite Sample
D = Sample was diluted in order to obtain a value within the calibration range.

RES DEC - Soil Standards compared to Connecticut Residential Direct Exposure Criteria
Total Metals via EPA Method 3050B/6000/7000
Total Cyanide via EPA Method 335.2/SW-846
Volatile Organic Compounds / Low Level via EPA Method 5035/8260B
Volatile Organic Compounds / Methanol via EPA Method 5035/8260B
Extractable Total Petroleum Hydrocarbons via EPA Method 8100M
8270C Polynuclear Aromatic Hydrocarbons via EPA Method 8270C

Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		TP-02	TP-04	TP-04	TP-06	TP-06	TP-07	TP-08	TP-08	Trip Blank	TP-11	TP-12	TP-13	TP-14	TP-14	TP-14
Sample Depth (ft.)		8	8	8	6	12	14	4	13		4	2	1	2	2	8
Sample Date		5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009	5/19/2009
Group Number		1	1	1	1	1	1	1	1	NA	2	2	2	2	2	2
	RES DEC (mg/kg)			Duplicate											Duplicate	
Extractable Total Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	500	**40400 D**	**4570 D**	**17800 D**	**--**	**22000 D**	**10200 D**	--	ND	--	ND	54.7	ND	28.6	38.3	34.8
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	474	ND	ND	ND	ND	--	39.7 D	ND	--	--	ND	ND	ND	ND	ND	ND
Acenaphthene	1000	ND	ND	ND	ND		ND	ND	--	--	ND	ND	ND	ND	ND	ND
Acenaphthylene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Anthracene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.558	ND	0.783	0.655	ND
Benzo(a)pyrene	1	<16.6 D	<7.58 D	<7.62 D	ND	--	<3.91 D	ND	--	--	ND	0.593	ND	0.62	0.522	ND
Benzo(b)fluoranthene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.53	ND	0.552	0.453	ND
Benzo(g,h,i)perylene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.448	ND	0.489	0.402	ND
Benzo(k)fluoranthene	8.4	<33.1 D	<15.1 D	<15.2 D	ND	--	ND	ND	--	--	ND	0.446	ND	0.573	0.508	ND
Chrysene	84	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.656	ND	0.758	0.641	ND
Dibenzo(a,h)Anthracene	0.33	<16.6 D	<7.58 D	<7.62 D	ND	--	<3.91 D	ND	--	--	ND	0.204	ND	ND	ND	ND
Fluoranthene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	0.841	ND	1.63	1.37	ND
Fluorene	1000	ND	ND	ND	ND	--	ND	ND	--	--	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	1	<33.1 D	<15.1 D	<15.2 D	ND	--	<7.79 D	ND	--	--	ND	0.404	ND	0.481	0.386	ND
Naphthalene	1000	ND	ND	ND	ND	--	14.8 D	ND	--	--	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	ND	ND	ND	ND	--	15.7 D	ND	--	--	ND	0.438	ND	ND	ND	ND
Pyrene	1000	ND	ND	ND	ND	--	11.4 D	ND	--	--	ND	0.855	ND	1.43	1.16	ND
Cyanide																
Total Cyanide	1400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.

ND -Not Detected
-- Denotes Not Analyzed
< indicates less than laboratory detection limits.
C = Composite Sample
D = Sample was diluted in order to obtain a value within the calibration range.

RES DEC - Soil Standards compared to Connecticut Residential Direct Exposure Criteria
Total Metals via EPA Method 3050B/6000/7000
Total Cyanide via EPA Method 335.2/SW-846
Volatile Organic Compounds / Low Level via EPA Method 5035/8260B
Volatile Organic Compounds / Methanol via EPA Method 5035/8260B
Extractable Total Petroleum Hydrocarbons via EPA Method 8100M
8270C Polynuclear Aromatic Hydrocarbons via EPA Method 8270C

Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		TP-15	TP-16	TP-17	TP-18	TP-19	TP-22	TP-25	TP-27	TP-28	TP-29	TP-30	TP-31	TP-32	TP-33	TP-34
Sample Depth (ft.)		2	2	5	2.5	2	2	5	Composite	5.5	3-5	4-4.5	Composite	Composite	6-7	6-7
Sample Date		5/19/2009	5/19/2009	5/19/2009	5/20/2009	5/20/2009	5/20/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009
Group Number		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	RES DEC (mg/kg)															
Total Metals																
Arsenic	10	8.1	7.2	5.3	9	5.5	8.6	3.1	3.3	7.7	6.8	5.5	7.2	6	8	7.3
Beryllium	2	0.18	0.16	0.14	ND	0.12	0.13	0.12	0.19	0.16	0.09	0.31	0.19	0.2	0.09	0.08
Cadmium	34	ND	ND	ND	ND	ND	ND	0.8	1.17	ND	ND	ND	ND	ND	ND	ND
Chromium	3900	9.8	12.2	9.1	8.5	13.2	10	8.7	20	5.1	6.9	8.5	9.7	14	7.5	5.6
Copper	2500	8.4	9.8	11.4	12.4	16.1	9.3	5.5	12.7	7.9	11.7	7.8	8.6	14.5	9.6	9.8
Lead	400	19.2	24.1	290	**495**	112	7.1	8.8	22	98.3	121	28.4	8.9	76	25.2	25.2
Mercury	20	ND	ND	0.062	ND	ND	ND	ND	0.086	0.181	ND	0.082	ND	0.07	0.151	0.15
Nickel	1400	7.7	9.1	6.3	7.4	9.5	7.8	5.5	8.3	4.5	6.1	9	7.7	9.7	5.5	4.8
Zinc	20000	10.8	16.2	63.3	17.6	30.4	8.9	15.9	29.6	44.2	16.5	17.1	11.6	54.2	29.7	31.2
Volatile Organic Compounds / Low Level																
1,2-Dibromoethane	0.007	--	--	--	--	--	--	--	--	<0.0081	ND	<0.0105	--	--	<0.0102	<0.0095
1,4-Dioxane	0.2	--	--	--	--	--	--	--	--	ND	ND	<0.21	--	--	<0.204	ND
Volatile Organic Compounds / Methanol																
1,2,4-Trimethylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dibromo-3-Chloropropane	0.44	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dibromoethane	0.007	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,2-Dichlorobenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
1,4-Dichlorobenzene	26	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
4-Isopropyltoluene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Acrylonitrile	1.1	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Chlorobenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Ethylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Isopropylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Naphthalene	1000	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
n-Butylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
n-Propylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
sec-Butylbenzene	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND
Xylene O	500	--	--	--	--	--	--	--	--	ND	ND	ND	--	--	ND	ND

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.
ND -Not Detected
-- Denotes Not Analyzed
< indicates less than laboratory detection limits.
C = Composite Sample
D = Sample was diluted in order to obtain a value within the calibration range.

RES DEC - Soil Standards compared to Connecticut Residential Direct Exposure Criteria
Total Metals via EPA Method 3050B/6000/7000
Total Cyanide via EPA Method 335.2/SW-846
Volatile Organic Compounds / Low Level via EPA Method 5035/8260B
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Table 1
Summary of Soil Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification		TP-15	TP-16	TP-17	TP-18	TP-19	TP-22	TP-25	TP-27	TP-28	TP-29	TP-30	TP-31	TP-32	TP-33	TP-34
Sample Depth (ft.)		2	2	5	2.5	2	2	5	Composite	5.5	3-5	4-4.5	Composite	Composite	6-7	6-7
Sample Date		5/19/2009	5/19/2009	5/19/2009	5/20/2009	5/20/2009	5/20/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009	5/18/2009
Group Number		2	2	2	2	2	2	3	3	3	3	3	3	3	3	3
	RES DEC (mg/kg)															
Extractable Total Petroleum Hydrocarbons																
Total Petroleum Hydrocarbons	500	ND	ND	269	ND	219	ND	ND	166	50.8	ND	362	ND	42.6	**1540 D**	**5130 D**
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	474	ND	ND	ND	ND	0.803	ND	ND	ND	ND	ND	10.2	ND	ND	ND	ND
Acenaphthene	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1000	ND	ND	ND	ND	1.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.45 D
Anthracene	1000	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	10.4 D	54 D
Benzo(a)anthracene	1	ND	ND	**1.05**	ND	**4.98**	ND	ND	**1.37**	ND	ND	**37.5 D**	ND	ND	**82.3 D**	**465 D**
Benzo(a)pyrene	1	ND	0.238	0.902	ND	**3.69**	ND	ND	**1.02**	ND	ND	**22.8 D**	ND	0.26	**89.1 D**	**429 D**
Benzo(b)fluoranthene	1	ND	ND	0.744	ND	**4.45**	ND	ND	0.737	ND	ND	**18.6 D**	ND	ND	**99.2 D**	**438 D**
Benzo(g,h,i)perylene	1000	ND	0.364	0.497	ND	1.48	ND	ND	0.481	ND	ND	ND	ND	ND	41.7 D	312 D
Benzo(k)fluoranthene	8.4	ND	ND	0.846	ND	2.75	ND	ND	1.07	ND	ND	**21.7 D**	ND	ND	**56 D**	**268 D**
Chrysene	84	ND	0.288	1.04	ND	4.34	ND	ND	1.25	0.189	0.215	30.5 D	ND	0.313	68.7 D	**362 D**
Dibenzo(a,h)Anthracene	0.33	ND	ND	0.245	ND	**0.57**	ND	ND	0.223	ND	ND	**4.75 D**	ND	ND	**15.1 D**	**59.5 D**
Fluoranthene	1000	ND	0.545	1.5	ND	11.4 D	ND	ND	2.36	ND	ND	68.7 D	ND	0.476	124 D	751 D
Fluorene	1000	ND	ND	ND	ND	1.57	ND	ND	ND	ND	ND	11.3 D	ND	ND	ND	ND
Indeno(1,2,3-cd)Pyrene	1	ND	ND	0.533	ND	**1.59**	ND	ND	0.532	ND	ND	**10.2 D**	ND	ND	**48.3 D**	**318 D**
Naphthalene	1000	ND	ND	ND	ND	0.921	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1000	ND	ND	0.739	ND	10.3 D	ND	ND	1.05	ND	ND	74.1 D	ND	ND	16.9 D	37.2 D
Pyrene	1000	ND	0.425	1.34	ND	8.86 D	ND	ND	2.01	ND	ND	52.6 D	ND	0.443	110 D	762 D
Cyanide																
Total Cyanide	1400	--	--	--	--	--	--	--	--	--	--	ND	--	ND	62.2 D	58.6 D

Notes:
Bold denotes exceedance of RES DEC
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.

ND -Not Detected
-- Denotes Not Analyzed
< indicates less than laboratory detection limits.
C = Composite Sample
D = Sample was diluted in order to obtain a value within the calibration range.

RES DEC - Soil Standards compared to Connecticut Residential Direct Exposure Criteria
Total Metals via EPA Method 3050B/6000/7000
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Extractable Total Petroleum Hydrocarbons via EPA Method 8100M
8270C Polynuclear Aromatic Hydrocarbons via EPA Method 8270C

Determined to comply with PMC based on RAP SPLP analysis

Table 2
Summary of Groundwater Analytical Results
Former Baltic Mills Site
Sprague, CT

Sample Identification	GA GWPC (ug/L)	MW-6
Sample Date:		10/07/2009
Extractable Petroleum Hydrocarbons		
2-Methylnaphthalene	49	ND
Acenaphthene	420	ND
Acenaphthylene	420	ND
Anthracene	2000	ND
Benzo(a)anthracene	0.06	<10
Benzo(a)pyrene	0.2	<10
Benzo(b)fluoranthene	0.08	<10
Benzo(g,h,i)perylene	210	ND
Benzo(k)fluoranthene	0.5	<10
Chrysene	4.8	<10
Dibenzo(a,h)Anthracene	0.2	<10
Fluoranthene	280	ND
Fluorene	280	ND
Indeno(1,2,3-cd)Pyrene	0.5	<10
Naphthalene	280	ND
Phenanthrene	200	ND
Pyrene	200	ND
C_{11}-C_{22} Aromitic Hydrocarbons	5,000*	684
C_{19}-C_{36} Aliphatic Hydrocarbons	50,000*	421
C_{9}-C_{18} Aliphatic Hydrocarbons	5,000*	233

Notes:
EPH via MADEP-EPH-04-1.1/8270C
Shaded cell - The method requested for this analysis does not meet criteria for all compounds. The compound is undetected, however, the Method Reporting Limit is greater than the State limit.
< indicates less than laboratory detection limits
ND - Not Detected
MW-6 was recorded as MW-1 in the Laboratory Analytical Report
GA GWPC - Groundwater standards compared to Connecticut Groundwater Protection Criteria
*Ground water standards obtained from the *Massachusetts Contingency Plan* , 310 CMR 40.0970, Revised December 2007. CTRSR does not include standards for hydrocarbon fractions.

Appendix B

Test Pit Logs

BALTIC MILLS
TEST PIT LOGS
MARCH 2010

ID	DEPTH(FT)	DESCRIPTION
TP-101	8	0-1’ Brown fine-medium sand (some brick and concrete) 1-8’ Brown medium-fine sand (4” light sand layer at 2’)
TP-102	8	0-1’ Brown fine-medium (some brick and concrete) 1-8’ Brown fine-medium (4” light sand layer at 2.5’) 3- 3.5’ Pocket of dark soil and coal fragments
TP-103	5.5	0-1.5’ Brown fine- medium sand (some brick and concrete) 1.5-2’ White fine sand layer 2-2.5’ Dark fine-medium sand with coal fragments 2.5-5.5’ Brown fine- medium sand with cobbles and brick 5.5’ possible concrete slab
TP-104	5	0-6” Concrete slab 6-12” Fine-medium sand 1- 1.5’ Coal and slag layer 1.5-5’ Light brown fine sand
TP-105	2.5	0-6” Concrete slab 1-2’ Layer of coal fragments and metal slag. Could not break slab at surface to excavate deeper than 2.5’.
TP-106	7	0-7’ Brown silty fine sand
TP-107	5	Some debris at surface 0-5’ Light brown fine-medium sand
TP-108	3.5	0-3.5 Dark brown fine-medium sand (some granite and brick) 3.5’ Boulder
TP-109	6	0-6’ Light brown fine sand
TP-110	10.5	Brown fine-medium sand (no fuel odor)
TP-111	7	Brown fine-medium sand, some cobbles (no fuel oil odor)
TP-112	8	Some brick, concrete, slag, metal material at surface 0-7’ Brown fine-medium sand, some gravel and cobbles 7-8’ Possible fire brick, coal fragments, slag and ash.
TP-113	5	Wood, metal, tires, foam, and some slag at surface 0-4.5’ Brown fine-medium sand 5’ Coal and brick fragments
TP-114	2	0-1.5’ Dark brown fine-medium sand 1.5-2’ White fine sand layer (test pit excavated to collected sample of this material)
TP-115	7	0-7’ Brown fine- coarse sand with cobbles
TP-116	8	0-8’ Brown fine- coarse sand
TP-117	6	0-6’ Brown fine-medium sand 4.5’ Small pocket of slag material
TP-118	7	0-7’ Brown fine-medium sand(some dark and yellow sand layers) 7’ Trace brick and glass at base
TP-119	6	0-3’ Brown fine-medium sand 3-6’ Dark brown fine-medium sand(occasional brick)
TP-120	7.5’	0-7.5’ Brown fine-medium sand

BALTIC MILLS
TEST PIT LOGS
MARCH 2010

TP-121	7	0-3’ Brick/stone rubble with whitish material 3-7’ Yellow fine-medium sand
TP-122	6	0-6’ Brown fine- medium sand (some brick) 6’ White pasty material

Appendix C

Soil Analytical Data

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: **Connecticut Testing Lab's, Inc.** Client: **Paul Burgess, LLC**

Project Location: Project Number: **Baltic Mills**

Laboratory Sample Id(s): **6325-6334** Sampling Date(s): **5/6/10-5/7/10**

List RCP Method(s) Used: **8270, CTETPH, 6010, 7471, 7470, 1312, 8082, 9010** CTL Lab #: **0510098**

Reactivation ☐ Date Reactivated:

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	*VPH and EPH Methods only*: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (<6° C°)? ☒ Iced ☐ No Ice	☒ Yes ☐ No ☐ N/A
4	Was all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☐ Yes ☒ No Dilutions noted in case narrative
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No Partial 6010 list
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: **Lab Director PH-0547**

Printed Name: **Stephen J. Franco** Date: **5/17/10**

Name of Laboratory: **Connecticut Testing Laboratories, Inc.**

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Paul Burgess, LLC
36 Elm Street
Stonington, CT 06378

Order#: **0510098**

Project: **Baltic Mills**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
TP-101 (1-8')	6325	SOIL	05/06/2010	05/07/2010
TP-102 (3')	6326	SOIL	05/06/2010	05/07/2010
TP-103 (2')	6327	SOIL	05/06/2010	05/07/2010
TP-105 (1-2')	6328	SOIL	05/06/2010	05/07/2010
TP-112 (7')	6329	SOIL	05/07/2010	05/07/2010
TP-114 (2')	6330	SOIL	05/07/2010	05/07/2010
TP-119 (3-6')	6331	SOIL	05/07/2010	05/07/2010
TP-1190	6332	SOIL	05/07/2010	05/07/2010
TP-121 (1-3')	6333	SOIL	05/07/2010	05/07/2010
TP-122 (6')	6334	SOIL	05/07/2010	05/07/2010

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Paul Burgess, LLC
36 Elm Street
Stonington, CT 06378

Order#: **0510098**

Project: **Baltic Mills**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

The following analytes do not meet RCP criteria in the SVOC ICAL with RF values of <0.05; 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol & Pentachlorophenol.

The following analytes do not meet RCP criteria in the SVOC ICV with <80% recovery; 2,4-Dinitrophenol (56%) & Pentachlorophenol (18%).

The following analytes do not meet RCP criteria in the SVOC CCAL with >30% drift from the initial calibration; 2,4-Dinitrophenol (100% D) & Pentachlorophenol (81% D). This CCAL was also used as the LCS sample and therefore these analytes do not meet RCP criteria with <30% recovery.

CTL sample no. 6327 was diluted for SVOC analysis and the reporting levels have been raised accordingly.

CTL sample nos. 6325, 6326 & 6334 were diluted after the initial SVOC run, since many analyes were detected at concentrations above the calibration curve. Data for these analytes was taken from the diluted aliquot run, and all other numbers were reported from the initial undiluted run.

The following analytes do not meet SVOC RCP criteria in the MS/MSD analysis performed on CTL sample no. 6330 with <30% recovery; 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol & Benzo(k)fluoranthene.

The discrimination check meets RCP criteria for CT-ETPH analysis.

Elevated recovery (>150%) is noted for the ETPH surrogate for CTL sample no. 6327 (186%).

There is currently no RCP criteria for pH, Conductivity, Reactivity or Flash Point analysis, however, QC data has been reported and meets the requirements of each non-RCP method.

Due to the nature of the tests, no MS/MSD data is provided for the following analytical; pH, Reactivity and Flash Point.

CTL sample no. 6328 was diluted for Total Lead analysis and the reporting level has been raised accordingly.

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Paul Burgess, LLC
36 Elm Street
Stonington, CT 06378

Order#: **0510098**

Project: **Baltic Mills**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Connecticut Testing Laboratories, Inc. makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: _____ Date: _____

Connecticut Testing Laboratories, Inc.

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

8 RCRA Metals -Total

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6325	6326	6327	6329	
Field ID:			TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-112 (7')	
Parameters	**Date Tested**	**RL**					**Method #**
Arsenic, Total-mg/kg	05/13/2010	1.0	5.5	16.9	4.5	10.5	6010B
Barium, Total-mg/kg	05/13/2010	5	126	36	28	82	6010B
Cadmium, Total-mg/kg	05/13/2010	0.5	ND	ND	ND	ND	6010B
Chromium, Total-mg/kg	05/13/2010	0.5	10.8	6.3	8.4	8.5	6010B
Lead, Total-mg/kg	05/13/2010	0.5	109	382	144	21.1	6010B
Mercury, Total-mg/kg	05/13/2010	0.02	0.06	0.09	0.03	0.04	7471A
Selenium, Total-mg/kg	05/13/2010	0.5	ND	ND	ND	ND	6010B
Silver, Total-mg/kg	05/13/2010	0.2	ND	ND	ND	ND	6010B

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

8 RCRA Metals -Total

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6330	6331	6332	6333	
Field ID:			TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')	
Parameters	**Date Tested**	**RL**					**Method #**
Arsenic, Total-mg/kg	05/13/2010	1.0	10.7	6.7	7.7	7.4	6010B
Barium, Total-mg/kg	05/13/2010	5	36	35	35	41	6010B
Cadmium, Total-mg/kg	05/13/2010	0.5	ND	ND	ND	ND	6010B
Chromium, Total-mg/kg	05/13/2010	0.5	8.3	11.1	10.1	6.3	6010B
Lead, Total-mg/kg	05/13/2010	0.5	102	282	288	135	6010B
Mercury, Total-mg/kg	05/13/2010	0.02	ND	0.05	0.05	0.09	7471A
Selenium, Total-mg/kg	05/13/2010	0.5	ND	ND	ND	ND	6010B
Silver, Total-mg/kg	05/13/2010	0.2	ND	ND	ND	0.4	6010B

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

8 RCRA Metals -Total

Matrix Type:	SOIL
CTL Sample No.:	6334
Field ID:	TP-122 (6')

Parameters	Date Tested	RL					Method #
Arsenic, Total-mg/kg	05/13/2010	1.0	3.1	--	--	--	6010B
Barium, Total-mg/kg	05/13/2010	5	42	--	--	--	6010B
Cadmium, Total-mg/kg	05/13/2010	0.5	0.8	--	--	--	6010B
Chromium, Total-mg/kg	05/13/2010	0.5	4.5	--	--	--	6010B
Lead, Total-mg/kg	05/13/2010	0.5	6.5	--	--	--	6010B
Mercury, Total-mg/kg	05/13/2010	0.02	0.35	--	--	--	7471A
Selenium, Total-mg/kg	05/13/2010	0.5	ND	--	--	--	6010B
Silver, Total-mg/kg	05/13/2010	0.2	ND	--	--	--	6010B

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

8 RCRA Metals -Total

Matrix Type:	SOIL
CTL Sample No.:	6328
Field ID:	TP-105 (1-2')

Parameters	Date Tested	RL					Method #
Arsenic, Total-mg/kg	05/13/2010	1.0	14.5	--	--	--	6010B
Barium, Total-mg/kg	05/13/2010	5	152	--	--	--	6010B
Cadmium, Total-mg/kg	05/13/2010	0.5	0.8	--	--	--	6010B
Chromium, Total-mg/kg	05/13/2010	0.5	15.6	--	--	--	6010B
Lead, Total-mg/kg	05/13/2010	10	9,100	--	--	--	6010B
Mercury, Total-mg/kg	05/13/2010	0.02	ND	--	--	--	7471A
Selenium, Total-mg/kg	05/13/2010	0.5	ND	--	--	--	6010B
Silver, Total-mg/kg	05/13/2010	0.2	ND	--	--	--	6010B

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

SPLP 8 Metals

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6325	6326	6327	6328	
Field ID:			TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	
Parameters	**Date Tested**	**RL**					**Method #**
Arsenic, SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312
Barium - SPLP-mg/L	05/13/2010	0.1	ND	ND	ND	ND	6010B/1312
Cadmium - SPLP-mg/L	05/13/2010	0.005	ND	ND	ND	ND	6010B/1312
Chromium, Total - SPLP-mg/L	05/13/2010	0.05	ND	ND	ND	ND	6010B/1312
Lead - SPLP-mg/L	05/13/2010	0.005	0.008	0.038	0.016	0.283	6010B/1312
Mercury - SPLP-mg/L	05/13/2010	0.002	ND	ND	ND	ND	7470A/1312
Selenium-SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312
Silver, SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

SPLP 8 Metals

Parameters	Date Tested	RL					Method #
Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6329	6330	6331	6332	
Field ID:			TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190	
Arsenic, SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312
Barium - SPLP-mg/L	05/13/2010	0.1	ND	ND	ND	ND	6010B/1312
Cadmium - SPLP-mg/L	05/13/2010	0.005	ND	ND	ND	ND	6010B/1312
Chromium, Total - SPLP-mg/L	05/13/2010	0.05	ND	ND	ND	ND	6010B/1312
Lead - SPLP-mg/L	05/13/2010	0.005	ND	ND	0.045	0.045	6010B/1312
Mercury - SPLP-mg/L	05/13/2010	0.002	ND	ND	ND	ND	7470A/1312
Selenium-SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312
Silver, SPLP-mg/L	05/13/2010	0.01	ND	ND	ND	ND	6010B/1312

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

SPLP 8 Metals

Parameters	Date Tested	RL					Method #
Matrix Type:			SOIL	SOIL			
CTL Sample No.:			6333	6334			
Field ID:			TP-121 (1-3')	TP-122 (6')			
Arsenic, SPLP-mg/L	05/13/2010	0.01	ND	ND	--	--	6010B/1312
Barium - SPLP-mg/L	05/13/2010	0.1	ND	ND	--	--	6010B/1312
Cadmium - SPLP-mg/L	05/13/2010	0.005	ND	ND	--	--	6010B/1312
Chromium, Total - SPLP-mg/L	05/13/2010	0.05	ND	ND	--	--	6010B/1312
Lead - SPLP-mg/L	05/13/2010	0.005	0.008	ND	--	--	6010B/1312
Mercury - SPLP-mg/L	05/13/2010	0.002	ND	ND	--	--	7470A/1312
Selenium-SPLP-mg/L	05/13/2010	0.01	ND	ND	--	--	6010B/1312
Silver, SPLP-mg/L	05/13/2010	0.01	ND	ND	--	--	6010B/1312

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	CT ETPH/3545	Analyst:	LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6325	6326	6327	6328
Field ID:	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')
Date Analyzed:	05/11/2010	05/11/2010	05/11/2010	05/11/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
CT ETPH	mg/kg	50	ND	76	286	ND
1-Chloro-Octadecene	%	---	96	93	186	87

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	CT ETPH/3545	Analyst:	LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6329	6330	6331	6332
Field ID:	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190
Date Analyzed:	05/11/2010	05/11/2010	05/11/2010	05/11/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
CT ETPH	mg/kg	50	ND	ND	ND	ND
1-Chloro-Octadecene	%	---	96	87	98	92

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	CT ETPH/3545	Analyst:	LP

RESULTS OF ANALYSIS

CTETPH-RCP

Matrix Type:	SOIL	SOIL
CTL Sample No.:	6333	6334
Field ID:	TP-121 (1-3')	TP-122 (6')
Date Analyzed:	05/11/2010	05/11/2010
Date Extracted:	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
CT ETPH	mg/kg	50	ND	124	--	--
1-Chloro-Octadecene	%	---	87	103	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	LP

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6325	6326	6327	6328	
Field ID:			TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')	
Parameters	**Date Tested**	**RL**					**Method #**
pH-Units	05/12/2010	0.1	8.1	8.5	8.7	8.3	9045D
Reactive Cyanide-mg/kg	05/15/2010	1.0	ND	ND	ND	ND	9010B
Reactive Sulfide-mg/kg	05/15/2010	50	ND	ND	ND	ND	9030B
Specific Conductivity-umhos/cm	05/12/2010	10	156	113	95	119	2510B

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	LP

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6329	6330	6331	6333	
Field ID:			TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-121 (1-3')	
Parameters	**Date Tested**	**RL**					**Method #**
pH-Units	05/12/2010	0.1	7.3	8.6	7.8	8.4	9045D
Reactive Cyanide-mg/kg	05/15/2010	1.0	ND	ND	ND	ND	9010B
Reactive Sulfide-mg/kg	05/15/2010	50	ND	ND	ND	ND	9030B
Specific Conductivity-umhos/cm	05/12/2010	10	73	109	156	120	2510B

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	LP

RESULTS OF ANALYSIS

Matrix Type: SOIL
CTL Sample No.: 6334
Field ID: TP-122 (6')

Parameters	Date Tested	RL					Method #
pH-Units	05/12/2010	0.1	8.3	--	--	--	9045D
Reactive Cyanide-mg/kg	05/15/2010	1.0	ND	--	--	--	9010B
Reactive Sulfide-mg/kg	05/15/2010	50	ND	--	--	--	9030B
Specific Conductivity-umhos/cm	05/12/2010	10	147	--	--	--	2510B

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
		Analyst:	BM

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6331	6332	6333	6334	
Field ID:			TP-119 (3-6')	TP-1190	TP-121 (1-3')	TP-122 (6')	
Parameters	**Date Tested**	**RL**					**Method #**
Cyanide, Total-mg/kg	05/11/2010	1.0	ND	ND	ND	28.0	9010B

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8082A/3545	Analyst:	MTL

RESULTS OF ANALYSIS

EPA Method 8082 RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6325	6326	6327	6328
Field ID:	TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')
Date Analyzed:	05/12/2010	05/12/2010	05/12/2010	05/12/2010
Date Extracted:	05/11/2010	05/11/2010	05/11/2010	05/11/2010

Parameters	Units	RL				
Aroclor 1016	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1221	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1232	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1242	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1248	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1254	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1260	mg/kg	0.5	ND	ND	ND	ND
PCBs, Total	mg/kg	0.5	ND	ND	ND	ND
Decachlorobiphenyl-SR	%	----	68	75	65	64
Tetrachloro-m-Xylene-SR	%	----	75	78	69	71

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8082A/3545	Analyst:	MTL

RESULTS OF ANALYSIS

EPA Method 8082 RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6329	6330	6331	6332
Field ID:	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-1190
Date Analyzed:	05/12/2010	05/12/2010	05/12/2010	05/12/2010
Date Extracted:	05/11/2010	05/11/2010	05/11/2010	05/11/2010

Parameters	Units	RL				
Aroclor 1016	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1221	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1232	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1242	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1248	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1254	mg/kg	0.5	ND	ND	ND	ND
Aroclor 1260	mg/kg	0.5	ND	ND	ND	ND
PCBs, Total	mg/kg	0.5	ND	ND	ND	ND
Decachlorobiphenyl-SR	%	----	70	83	71	60
Tetrachloro-m-Xylene-SR	%	----	73	86	72	67

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8082A/3545	Analyst:	MTL

RESULTS OF ANALYSIS

EPA Method 8082 RCP

Matrix Type:	SOIL	SOIL
CTL Sample No.:	6333	6334
Field ID:	TP-121 (1-3')	TP-122 (6')
Date Analyzed:	05/12/2010	05/12/2010
Date Extracted:	05/11/2010	05/11/2010

Parameters	Units	RL				
Aroclor 1016	mg/kg	0.5	ND	ND	--	--
Aroclor 1221	mg/kg	0.5	ND	ND	--	--
Aroclor 1232	mg/kg	0.5	ND	ND	--	--
Aroclor 1242	mg/kg	0.5	ND	ND	--	--
Aroclor 1248	mg/kg	0.5	ND	ND	--	--
Aroclor 1254	mg/kg	0.5	ND	ND	--	--
Aroclor 1260	mg/kg	0.5	ND	ND	--	--
PCBs, Total	mg/kg	0.5	ND	ND	--	--
Decachlorobiphenyl-SR	%	----	64	79	--	--
Tetrachloro-m-Xylene-SR	%	----	72	88	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	1010	Analyst:	SM

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL	SOIL	SOIL
CTL Sample No.:			6325	6326	6327	6328
Field ID:			TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-105 (1-2')
Date Analyzed:			05/12/2010	05/12/2010	05/12/2010	05/12/2010
Date Extracted:			05/12/2010	05/12/2010	05/12/2010	05/12/2010
Parameters	**Units**	**RL**				
Flash Point	F	Ambient	>200	>200	>200	>200

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	1010	Analyst:	LP

RESULTS OF ANALYSIS

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6329	6330	6331	6333
Field ID:	TP-112 (7')	TP-114 (2')	TP-119 (3-6')	TP-121 (1-3')
Date Analyzed:	05/12/2010	05/12/2010	05/12/2010	05/12/2010
Date Extracted:	05/12/2010	05/12/2010	05/12/2010	05/12/2010

Parameters	Units	RL				
Flash Point	F	Ambient	>200	>200	>200	>200

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	1010	Analyst:	BM

RESULTS OF ANALYSIS

Matrix Type:	SOIL
CTL Sample No.:	6334
Field ID:	TP-122 (6')
Date Analyzed:	05/12/2010
Date Extracted:	05/12/2010

Parameters	Units	RL				
Flash Point	F	Ambient	>200	--	--	--

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6325	6326	6328	6329
Field ID:	TP-101 (1-8')	TP-102 (3')	TP-105 (1-2')	TP-112 (7')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
Pyridine	ug/Kg	100	ND	ND	ND	ND
Phenol	ug/Kg	500	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/Kg	500	ND	ND	ND	ND
bis(2-Chloroethoxy) methane	ug/Kg	100	ND	ND	ND	ND
bis(2-Chloroethyl) Ether	ug/Kg	100	ND	ND	ND	ND
2-Chlorophenol	ug/Kg	500	ND	ND	ND	ND
Aniline	ug/Kg	10	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	ug/Kg	100	ND	ND	ND	ND
2-Methylphenol	ug/Kg	500	ND	ND	ND	ND
4-Methylphenol	ug/Kg	500	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ug/Kg	100	ND	ND	ND	ND
Hexachloroethane	ug/Kg	100	ND	ND	ND	ND
Nitrobenzene	ug/Kg	100	ND	ND	ND	ND
Isophorone	ug/Kg	100	ND	ND	ND	ND
2-Nitrophenol	ug/Kg	500	ND	ND	ND	ND
2,4-Dimethylphenol	ug/Kg	500	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/Kg	100	ND	ND	ND	ND
Naphthalene	ug/Kg	100	ND	ND	ND	ND
2,4-Dichlorophenol	ug/Kg	500	ND	ND	ND	ND
4-Chloroaniline	ug/Kg	10	ND	ND	ND	ND
Hexachlorobutadiene	ug/Kg	100	ND	ND	ND	ND
2-Methylnaphthalene	ug/Kg	100	ND	ND	ND	ND
4-Chloro-3-methylphenol	ug/Kg	500	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/Kg	100	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	ug/Kg	20	ND	ND	ND	ND
2,4,5-Trichlorophenol	ug/Kg	500	ND	ND	ND	ND
2-Chloronaphthalene	ug/Kg	100	ND	ND	ND	ND
2-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
3-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
Dimethylphthalate	ug/Kg	100	ND	ND	ND	ND
Acenaphthylene	ug/Kg	100	ND	107.0	ND	ND
Acenaphthene	ug/Kg	100	ND	ND	ND	ND
2,4-Dinitrophenol	ug/Kg	500	ND	ND	ND	ND
Dibenzofuran	ug/Kg	100	ND	ND	ND	ND

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6325	6326	6328	6329
Field ID:	TP-101 (1-8')	TP-102 (3')	TP-105 (1-2')	TP-112 (7')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	Units	RL				
2,4-Dinitrotoluene	ug/Kg	100	ND	ND	ND	ND
2,6-Dinitrotoluene	ug/Kg	100	ND	ND	ND	ND
4-Nitrophenol	ug/Kg	500	ND	ND	ND	ND
Diethylphthalate	ug/Kg	100	ND	ND	ND	ND
Fluorene	ug/Kg	100	ND	ND	ND	ND
4-Chlorophenyl phenylether	ug/Kg	100	ND	ND	ND	ND
N-Nitrosodiphenylamine	ug/Kg	100	ND	ND	ND	ND
4-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ug/Kg	500	ND	ND	ND	ND
4-Bromophenyl-phenylether	ug/Kg	100	ND	ND	ND	ND
Hexachlorobenzene	ug/Kg	100	ND	ND	ND	ND
Pentachloronitrobenzene	ug/Kg	500	ND	ND	ND	ND
Pentachlorophenol	ug/Kg	500	ND	ND	ND	ND
Phenanthrene	ug/Kg	100	922.0	802.0	ND	142.0
Anthracene	ug/Kg	100	179.0	206.0	ND	ND
Carbazole	ug/Kg	100	100.0	ND	ND	ND
Di-n-Butylphthalate	ug/Kg	100	ND	ND	ND	ND
Fluoranthene	ug/Kg	100	1,740.0	1,530.0	ND	178.0
Pyrene	ug/Kg	100	1,570.0	1,280.0	ND	166.0
Butylbenzylphthalate	ug/Kg	100	ND	ND	ND	ND
Benzo(a)anthracene	ug/Kg	100	665.0	894.0	ND	ND
3,3-Dichlorobenzidine	ug/Kg	100	ND	ND	ND	ND
Chrysene	ug/Kg	100	713.0	912.0	ND	110.0
bis-(2-Ethylhexyl) phthalate	ug/Kg	500	ND	ND	ND	ND
Di-n-octylphthalate	ug/Kg	100	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/Kg	100	970.0	1,200.0	ND	122.0
Benzo(k)fluoranthene	ug/Kg	100	318.0	509.0	ND	ND
Benzo(a)pyrene	ug/Kg	100	616.0	731.0	ND	ND
Indeno(1,2,3-cd)Pyrene	ug/Kg	500	ND	ND	ND	ND
Benzo(g,h,i)Perylene	ug/Kg	500	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	ug/Kg	500	ND	ND	ND	ND
2-Fluorophenol	%	----	106	98	109	72
Phenol-d6	%	----	101	118	115	88
Nitrobenzene-d5	%	----	103	104	116	115

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6325	6326	6328	6329
Field ID:	TP-101 (1-8')	TP-102 (3')	TP-105 (1-2')	TP-112 (7')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
2-Fluorobiphenyl	%	----	106	105	99	107
2,4,6-Tribromophenol	%	----	112	102	102	76
p-Terphenyl-d14	%	-----	67	69	64	63

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6330	6331	6332	6333
Field ID:	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	Units	RL				
Pyridine	ug/Kg	100	ND	ND	ND	ND
Phenol	ug/Kg	500	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/Kg	500	ND	ND	ND	ND
bis(2-Chloroethoxy) methane	ug/Kg	100	ND	ND	ND	ND
bis(2-Chloroethyl) Ether	ug/Kg	100	ND	ND	ND	ND
2-Chlorophenol	ug/Kg	500	ND	ND	ND	ND
Aniline	ug/Kg	10	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	ug/Kg	100	ND	ND	ND	ND
2-Methylphenol	ug/Kg	500	ND	ND	ND	ND
4-Methylphenol	ug/Kg	500	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	ug/Kg	100	ND	ND	ND	ND
Hexachloroethane	ug/Kg	100	ND	ND	ND	ND
Nitrobenzene	ug/Kg	100	ND	ND	ND	ND
Isophorone	ug/Kg	100	ND	ND	ND	ND
2-Nitrophenol	ug/Kg	500	ND	ND	ND	ND
2,4-Dimethylphenol	ug/Kg	500	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ug/Kg	100	ND	ND	ND	ND
Naphthalene	ug/Kg	100	ND	ND	ND	ND
2,4-Dichlorophenol	ug/Kg	500	ND	ND	ND	ND
4-Chloroaniline	ug/Kg	10	ND	ND	ND	ND
Hexachlorobutadiene	ug/Kg	100	ND	ND	ND	ND
2-Methylnaphthalene	ug/Kg	100	ND	ND	ND	ND
4-Chloro-3-methylphenol	ug/Kg	500	ND	ND	ND	ND
Hexachlorocyclopentadiene	ug/Kg	100	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	ug/Kg	20	ND	ND	ND	ND
2,4,5-Trichlorophenol	ug/Kg	500	ND	ND	ND	ND
2-Chloronaphthalene	ug/Kg	100	ND	ND	ND	ND
2-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
3-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
Dimethylphthalate	ug/Kg	100	ND	ND	ND	ND
Acenaphthylene	ug/Kg	100	ND	ND	ND	ND
Acenaphthene	ug/Kg	100	ND	ND	ND	ND
2,4-Dinitrophenol	ug/Kg	500	ND	ND	ND	ND
Dibenzofuran	ug/Kg	100	ND	ND	ND	ND

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6330	6331	6332	6333
Field ID:	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
2,4-Dinitrotoluene	ug/Kg	100	ND	ND	ND	ND
2,6-Dinitrotoluene	ug/Kg	100	ND	ND	ND	ND
4-Nitrophenol	ug/Kg	500	ND	ND	ND	ND
Diethylphthalate	ug/Kg	100	ND	ND	ND	ND
Fluorene	ug/Kg	100	ND	ND	ND	ND
4-Chlorophenyl phenylether	ug/Kg	100	ND	ND	ND	ND
N-Nitrosodiphenylamine	ug/Kg	100	ND	ND	ND	ND
4-Nitroaniline	ug/Kg	100	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	ug/Kg	500	ND	ND	ND	ND
4-Bromophenyl-phenylether	ug/Kg	100	ND	ND	ND	ND
Hexachlorobenzene	ug/Kg	100	ND	ND	ND	ND
Pentachloronitrobenzene	ug/Kg	500	ND	ND	ND	ND
Pentachlorophenol	ug/Kg	500	ND	ND	ND	ND
Phenanthrene	ug/Kg	100	248.0	382.0	265.0	ND
Anthracene	ug/Kg	100	ND	108.0	ND	ND
Carbazole	ug/Kg	100	ND	ND	ND	ND
Di-n-Butylphthalate	ug/Kg	100	ND	ND	ND	ND
Fluoranthene	ug/Kg	100	397.0	755.0	526.0	130.0
Pyrene	ug/Kg	100	326.0	706.0	481.0	ND
Butylbenzylphthalate	ug/Kg	100	ND	ND	ND	ND
Benzo(a)anthracene	ug/Kg	100	220.0	398.0	275.0	ND
3,3-Dichlorobenzidine	ug/Kg	100	ND	ND	ND	ND
Chrysene	ug/Kg	100	212.0	480.0	345.0	ND
bis-(2-Ethylhexyl) phthalate	ug/Kg	500	ND	ND	ND	ND
Di-n-octylphthalate	ug/Kg	100	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/Kg	100	259.0	525.0	403.0	ND
Benzo(k)fluoranthene	ug/Kg	100	102.0	160.0	127.0	ND
Benzo(a)pyrene	ug/Kg	100	174.0	348.0	252.0	ND
Indeno(1,2,3-cd)Pyrene	ug/Kg	500	ND	ND	ND	ND
Benzo(g,h,i)Perylene	ug/Kg	500	ND	ND	ND	ND
Dibenzo(a,h)Anthracene	ug/Kg	500	ND	ND	ND	ND
2-Fluorophenol	%	----	107	98	107	102
Phenol-d6	%	----	101	98	99	120
Nitrobenzene-d5	%	----	102	104	110	119

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL	SOIL	SOIL	SOIL
CTL Sample No.:	6330	6331	6332	6333
Field ID:	TP-114 (2')	TP-119 (3-6')	TP-1190	TP-121 (1-3')
Date Analyzed:	05/10/2010	05/10/2010	05/10/2010	05/10/2010
Date Extracted:	05/10/2010	05/10/2010	05/10/2010	05/10/2010

Parameters	**Units**	**RL**				
2-Fluorobiphenyl	%	----	98	102	106	113
2,4,6-Tribromophenol	%	----	99	111	96	103
p-Terphenyl-d14	%	-----	71	104	105	60

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6334
Field ID:	TP-122 (6')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
Pyridine	ug/Kg	100	ND	--	--	--
Phenol	ug/Kg	500	ND	--	--	--
2,4,6-Trichlorophenol	ug/Kg	500	ND	--	--	--
bis(2-Chloroethoxy) methane	ug/Kg	100	ND	--	--	--
bis(2-Chloroethyl) Ether	ug/Kg	100	ND	--	--	--
2-Chlorophenol	ug/Kg	500	ND	--	--	--
Aniline	ug/Kg	10	ND	--	--	--
Bis(2-chloroisopropyl) ether	ug/Kg	100	ND	--	--	--
2-Methylphenol	ug/Kg	500	ND	--	--	--
4-Methylphenol	ug/Kg	500	ND	--	--	--
N-Nitroso-di-n-propylamine	ug/Kg	100	ND	--	--	--
Hexachloroethane	ug/Kg	100	ND	--	--	--
Nitrobenzene	ug/Kg	100	ND	--	--	--
Isophorone	ug/Kg	100	ND	--	--	--
2-Nitrophenol	ug/Kg	500	ND	--	--	--
2,4-Dimethylphenol	ug/Kg	500	ND	--	--	--
1,2,4-Trichlorobenzene	ug/Kg	100	ND	--	--	--
Naphthalene	ug/Kg	100	ND	--	--	--
2,4-Dichlorophenol	ug/Kg	500	ND	--	--	--
4-Chloroaniline	ug/Kg	10	ND	--	--	--
Hexachlorobutadiene	ug/Kg	100	ND	--	--	--
2-Methylnaphthalene	ug/Kg	100	ND	--	--	--
4-Chloro-3-methylphenol	ug/Kg	500	ND	--	--	--
Hexachlorocyclopentadiene	ug/Kg	100	ND	--	--	--
1,2,4,5-Tetrachlorobenzene	ug/Kg	20	ND	--	--	--
2,4,5-Trichlorophenol	ug/Kg	500	ND	--	--	--
2-Chloronaphthalene	ug/Kg	100	ND	--	--	--
2-Nitroaniline	ug/Kg	100	ND	--	--	--
3-Nitroaniline	ug/Kg	100	ND	--	--	--
Dimethylphthalate	ug/Kg	100	ND	--	--	--
Acenaphthylene	ug/Kg	100	218.0	--	--	--
Acenaphthene	ug/Kg	100	ND	--	--	--
2,4-Dinitrophenol	ug/Kg	500	ND	--	--	--
Dibenzofuran	ug/Kg	100	ND	--	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6334
Field ID:	TP-122 (6')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
2,4-Dinitrotoluene	ug/Kg	100	ND	--	--	--
2,6-Dinitrotoluene	ug/Kg	100	ND	--	--	--
4-Nitrophenol	ug/Kg	500	ND	--	--	--
Diethylphthalate	ug/Kg	100	ND	--	--	--
Fluorene	ug/Kg	100	ND	--	--	--
4-Chlorophenyl phenylether	ug/Kg	100	ND	--	--	--
N-Nitrosodiphenylamine	ug/Kg	100	ND	--	--	--
4-Nitroaniline	ug/Kg	100	ND	--	--	--
4,6-Dinitro-2-methylphenol	ug/Kg	500	ND	--	--	--
4-Bromophenyl-phenylether	ug/Kg	100	ND	--	--	--
Hexachlorobenzene	ug/Kg	100	ND	--	--	--
Pentachloronitrobenzene	ug/Kg	500	ND	--	--	--
Pentachlorophenol	ug/Kg	500	ND	--	--	--
Phenanthrene	ug/Kg	100	139.0	--	--	--
Anthracene	ug/Kg	100	174.0	--	--	--
Carbazole	ug/Kg	100	ND	--	--	--
Di-n-Butylphthalate	ug/Kg	100	ND	--	--	--
Fluoranthene	ug/Kg	100	8,490.0	--	--	--
Pyrene	ug/Kg	100	8,170.0	--	--	--
Butylbenzylphthalate	ug/Kg	100	ND	--	--	--
Benzo(a)anthracene	ug/Kg	100	4,670.0	--	--	--
3,3-Dichlorobenzidine	ug/Kg	100	ND	--	--	--
Chrysene	ug/Kg	100	3,740.0	--	--	--
bis-(2-Ethylhexyl) phthalate	ug/Kg	500	ND	--	--	--
Di-n-octylphthalate	ug/Kg	100	ND	--	--	--
Benzo(b)fluoranthene	ug/Kg	100	9,100.0	--	--	--
Benzo(k)fluoranthene	ug/Kg	100	2,850.0	--	--	--
Benzo(a)pyrene	ug/Kg	100	6,920.0	--	--	--
Indeno(1,2,3-cd)Pyrene	ug/Kg	500	3,300.0	--	--	--
Benzo(g,h,i)Perylene	ug/Kg	500	3,130.0	--	--	--
Dibenzo(a,h)Anthracene	ug/Kg	500	715.0	--	--	--
2-Fluorophenol	%	----	96	--	--	--
Phenol-d6	%	----	97	--	--	--
Nitrobenzene-d5	%	----	108	--	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6334
Field ID:	TP-122 (6')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
2-Fluorobiphenyl	%	----	97	--	--	--
2,4,6-Tribromophenol	%	----	117	--	--	--
p-Terphenyl-d14	%	-----	96	--	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6327
Field ID:	TP-103 (2')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
Pyridine	ug/Kg	2000	ND	--	--	--
Phenol	ug/Kg	10000	ND	--	--	--
2,4,6-Trichlorophenol	ug/Kg	10000	ND	--	--	--
bis(2-Chloroethoxy) methane	ug/Kg	2000	ND	--	--	--
bis(2-Chloroethyl) Ether	ug/Kg	2000	ND	--	--	--
2-Chlorophenol	ug/Kg	10000	ND	--	--	--
Aniline	ug/Kg	2000	ND	--	--	--
Bis(2-chloroisopropyl) ether	ug/Kg	2000	ND	--	--	--
2-Methylphenol	ug/Kg	10000	ND	--	--	--
4-Methylphenol	ug/Kg	10000	ND	--	--	--
N-Nitroso-di-n-propylamine	ug/Kg	2000	ND	--	--	--
Hexachloroethane	ug/Kg	2000	ND	--	--	--
Nitrobenzene	ug/Kg	2000	ND	--	--	--
Isophorone	ug/Kg	2000	ND	--	--	--
2-Nitrophenol	ug/Kg	10000	ND	--	--	--
2,4-Dimethylphenol	ug/Kg	10000	ND	--	--	--
1,2,4-Trichlorobenzene	ug/Kg	2000	ND	--	--	--
Naphthalene	ug/Kg	2000	3,320.0	--	--	--
2,4-Dichlorophenol	ug/Kg	10000	ND	--	--	--
4-Chloroaniline	ug/Kg	2000	ND	--	--	--
Hexachlorobutadiene	ug/Kg	2000	ND	--	--	--
2-Methylnaphthalene	ug/Kg	2000	3,970.0	--	--	--
4-Chloro-3-methylphenol	ug/Kg	10000	ND	--	--	--
Hexachlorocyclopentadiene	ug/Kg	2000	ND	--	--	--
1,2,4,5-Tetrachlorobenzene	ug/Kg	2000	ND	--	--	--
2,4,5-Trichlorophenol	ug/Kg	10000	ND	--	--	--
2-Chloronaphthalene	ug/Kg	2000	ND	--	--	--
2-Nitroaniline	ug/Kg	2000	ND	--	--	--
3-Nitroaniline	ug/Kg	2000	ND	--	--	--
Dimethylphthalate	ug/Kg	2000	ND	--	--	--
Acenaphthylene	ug/Kg	2000	10,700.0	--	--	--
Acenaphthene	ug/Kg	2000	3,510.0	--	--	--
2,4-Dinitrophenol	ug/Kg	10000	ND	--	--	--
Dibenzofuran	ug/Kg	2000	16,500.0	--	--	--

RL=Reporting Level ND = None Detected

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Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6327
Field ID:	TP-103 (2')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
2,4-Dinitrotoluene	ug/Kg	2000	ND	--	--	--
2,6-Dinitrotoluene	ug/Kg	2000	ND	--	--	--
4-Nitrophenol	ug/Kg	10000	ND	--	--	--
Diethylphthalate	ug/Kg	2000	ND	--	--	--
Fluorene	ug/Kg	2000	13,300.0	--	--	--
4-Chlorophenyl phenylether	ug/Kg	2000	ND	--	--	--
N-Nitrosodiphenylamine	ug/Kg	2000	ND	--	--	--
4-Nitroaniline	ug/Kg	2000	ND	--	--	--
4,6-Dinitro-2-methylphenol	ug/Kg	10000	ND	--	--	--
4-Bromophenyl-phenylether	ug/Kg	2000	ND	--	--	--
Hexachlorobenzene	ug/Kg	2000	ND	--	--	--
Pentachloronitrobenzene	ug/Kg	10000	ND	--	--	--
Pentachlorophenol	ug/Kg	10000	ND	--	--	--
Phenanthrene	ug/Kg	2000	148,000.0	--	--	--
Anthracene	ug/Kg	2000	49,000.0	--	--	--
Carbazole	ug/Kg	2000	19,200.0	--	--	--
Di-n-Butylphthalate	ug/Kg	2000	ND	--	--	--
Fluoranthene	ug/Kg	2000	225,000.0	--	--	--
Pyrene	ug/Kg	2000	182,000.0	--	--	--
Butylbenzylphthalate	ug/Kg	2000	ND	--	--	--
Benzo(a)anthracene	ug/Kg	2000	122,000.0	--	--	--
3,3-Dichlorobenzidine	ug/Kg	2000	ND	--	--	--
Chrysene	ug/Kg	2000	108,000.0	--	--	--
bis-(2-Ethylhexyl) phthalate	ug/Kg	10000	ND	--	--	--
Di-n-octylphthalate	ug/Kg	2000	ND	--	--	--
Benzo(b)fluoranthene	ug/Kg	2000	128,000.0	--	--	--
Benzo(k)fluoranthene	ug/Kg	2000	55,700.0	--	--	--
Benzo(a)pyrene	ug/Kg	2000	93,100.0	--	--	--
Indeno(1,2,3-cd)Pyrene	ug/Kg	10000	34,300.0	--	--	--
Benzo(g,h,i)Perylene	ug/Kg	10000	34,900.0	--	--	--
Dibenzo(a,h)Anthracene	ug/Kg	10000	14,500.0	--	--	--
2-Fluorophenol	%	----	103	--	--	--
Phenol-d6	%	----	99	--	--	--
Nitrobenzene-d5	%	----	109	--	--	--

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/17/2010	PO No:	Baltic Mills
Method #:	8270C	Analyst:	KM

RESULTS OF ANALYSIS

EPA Method 8270C SVOC RCP

Matrix Type:	SOIL
CTL Sample No.:	6327
Field ID:	TP-103 (2')
Date Analyzed:	05/10/2010
Date Extracted:	05/10/2010

Parameters	Units	RL				
2-Fluorobiphenyl	%	----	104	--	--	--
2,4,6-Tribromophenol	%	----	97	--	--	--
p-Terphenyl-d14	%	-----	107	--	--	--

RL=Reporting Level ND = None Detected

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Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

8 RCRA Metals -Total

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, Total-mg/kg	0023527-02			ND		
Barium, Total-mg/kg	0023527-02			ND		
Cadmium, Total-mg/kg	0023527-02			ND		
Chromium, Total-mg/kg	0023527-02			ND		
Lead, Total-mg/kg	0023527-02			ND		
Mercury, Total-mg/kg	0023527-02			ND		
Selenium, Total-mg/kg	0023527-02			ND		
Silver, Total-mg/kg	0023527-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, Total-mg/kg	0023527-03		107	98.4	92.%	
Barium, Total-mg/kg	0023527-03		331	299	90.3%	
Cadmium, Total-mg/kg	0023527-03		244	216	88.5%	
Chromium, Total-mg/kg	0023527-03		80.6	77.1	95.7%	
Lead, Total-mg/kg	0023527-03		107	92.0	86.%	
Mercury, Total-mg/kg	0023527-03		2.96	2.9	98.%	
Selenium, Total-mg/kg	0023527-03		177	156	88.1%	
Silver, Total-mg/kg	0023527-03		46.2	39.9	86.4%	
DUPLICATE SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, Total-mg/kg	0000063-30	10.7		10.3		3.8%
Barium, Total-mg/kg	0000063-30	35.6		39.0		9.1%
Cadmium, Total-mg/kg	0000063-30	ND		ND		0.%
Chromium, Total-mg/kg	0000063-30	8.3		8.9		7.%
Lead, Total-mg/kg	0000063-30	102		123		18.7%
Mercury, Total-mg/kg	0000063-30	ND		ND		0.%
Selenium, Total-mg/kg	0000063-30	ND		ND		0.%
Silver, Total-mg/kg	0000063-30	ND		ND		0.%
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, Total-mg/kg	0000063-30	10.7	107	110	92.8%	
Barium, Total-mg/kg	0000063-30	35.6	331	322	86.5%	
Cadmium, Total-mg/kg	0000063-30	ND	244	218	89.3%	
Chromium, Total-mg/kg	0000063-30	8.3	80.6	80.0	89.%	
Lead, Total-mg/kg	0000063-30	102	107	188	80.4%	
Mercury, Total-mg/kg	0000063-30	ND	2.96	3.06	103.4%	
Selenium, Total-mg/kg	0000063-30	ND	177	158	89.3%	
Silver, Total-mg/kg	0000063-30	ND	46.2	43.0	93.1%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, Total-mg/kg	0000063-30	10.7	107	110	92.8%	0.%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

8 RCRA Metals -Total

Order#: 0510098

MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Barium, Total-mg/kg	0000063-30	35.6	331	326	87.7%	1.2%
Cadmium, Total-mg/kg	0000063-30	ND	244	225	92.2%	3.2%
Chromium, Total-mg/kg	0000063-30	8.3	80.6	81.6	90.9%	2.%
Lead, Total-mg/kg	0000063-30	102	107	196	87.9%	4.2%
Mercury, Total-mg/kg	0000063-30	ND	2.96	2.92	98.6%	4.7%
Selenium, Total-mg/kg	0000063-30	ND	177	162	91.5%	2.5%
Silver, Total-mg/kg	0000063-30	ND	46.2	43.1	93.3%	0.2%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

SPLP 8 Metals

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, SPLP-mg/L	0023526-02			ND		
Barium - SPLP-mg/L	0023526-02			ND		
Cadmium - SPLP-mg/L	0023526-02			ND		
Chromium, Total - SPLP-mg/L	0023526-02			ND		
Lead - SPLP-mg/L	0023526-02			ND		
Mercury - SPLP-mg/L	0023526-02			ND		
Selenium-SPLP-mg/L	0023526-02			ND		
Silver, SPLP-mg/L	0023526-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, SPLP-mg/L	0023526-03		0.160	0.170	106.3%	
Barium - SPLP-mg/L	0023526-03		1.2	1.2	100.%	
Cadmium - SPLP-mg/L	0023526-03		0.641	0.645	100.6%	
Chromium, Total - SPLP-mg/L	0023526-03		0.870	0.880	101.1%	
Lead - SPLP-mg/L	0023526-03		0.409	0.391	95.6%	
Mercury - SPLP-mg/L	0023526-03		0.00280	0.00260	92.9%	
Selenium-SPLP-mg/L	0023526-03		1.07	1.04	97.2%	
Silver, SPLP-mg/L	0023526-03		0.550	0.520	94.5%	
DUPLICATE SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, SPLP-mg/L	0000063-30	ND		ND		0.%
Barium - SPLP-mg/L	0000063-30	ND		ND		0.%
Cadmium - SPLP-mg/L	0000063-30	ND		ND		0.%
Chromium, Total - SPLP-mg/L	0000063-30	ND		ND		0.%
Lead - SPLP-mg/L	0000063-30	ND		ND		0.%
Mercury - SPLP-mg/L	0000063-30	ND		ND		0.%
Selenium-SPLP-mg/L	0000063-30	ND		ND		0.%
Silver, SPLP-mg/L	0000063-30	ND		ND		0.%
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, SPLP-mg/L	0000063-30	ND	0.160	0.170	106.3%	
Barium - SPLP-mg/L	0000063-30	ND	1.2	1.2	100.%	
Cadmium - SPLP-mg/L	0000063-30	ND	0.641	0.606	94.5%	
Chromium, Total - SPLP-mg/L	0000063-30	ND	0.870	0.840	96.6%	
Lead - SPLP-mg/L	0000063-30	ND	0.409	0.372	91.%	
Mercury - SPLP-mg/L	0000063-30	ND	0.0020	0.00220	110.%	
Selenium-SPLP-mg/L	0000063-30	ND	1.07	1.02	95.3%	
Silver, SPLP-mg/L	0000063-30	ND	0.550	0.530	96.4%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Arsenic, SPLP-mg/L	0000063-30	ND	0.160	0.160	100.%	6.1%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

SPLP 8 Metals

Order#: 0510098

MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Barium - SPLP-mg/L	0000063-30	ND	1.2	1.2	100.%	0.%
Cadmium - SPLP-mg/L	0000063-30	ND	0.641	0.595	92.8%	1.8%
Chromium, Total - SPLP-mg/L	0000063-30	ND	0.870	0.840	96.6%	0.%
Lead - SPLP-mg/L	0000063-30	ND	0.409	0.368	90.%	1.1%
Mercury - SPLP-mg/L	0000063-30	ND	0.0020	0.00230	115.%	4.4%
Selenium-SPLP-mg/L	0000063-30	ND	1.07	0.960	89.7%	6.1%
Silver, SPLP-mg/L	0000063-30	ND	0.550	0.520	94.5%	1.9%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

CTETPH-RCP

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0023510-02			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0023510-03		560	526	93.9%	
DUPLICATE SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000063-30	ND		ND		0.%
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000063-30	ND	280	293	104.6%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
CT ETPH-mg/kg	0000063-30	ND	280	272	97.1%	7.4%

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	1-Chloro-Octadecene	98%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
CONTROL	1-Chloro-Octadecene	101%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
DUPLICATE	1-Chloro-Octadecene	95%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MS	1-Chloro-Octadecene	103%	50	150
Type of QC	Surrogates	% Recovered	QC Limits (%)	
MSD	1-Chloro-Octadecene	102%	50	150

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

Test Parameters

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Cyanide, Total-mg/kg	0023543-01			ND		
Reactive Cyanide-mg/kg	0023548-01			ND		
Reactive Sulfide-mg/kg	0023548-01			ND		
Specific Conductivity-umhos/cm	0023531-01			ND		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Cyanide, Total-mg/kg	0023543-02		172	162	94.2%	
Flash Point-F	0023529-02		105	110	104.8%	
pH-Units	0023530-02		6.0	6.0	100.%	
Reactive Cyanide-mg/kg	0023548-02		50.0	10.0	20.%	
Reactive Sulfide-mg/kg	0023548-02		500	62.0	12.4%	
Specific Conductivity-umhos/cm	0023531-02		390	386	99.%	
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Specific Conductivity-umhos/cm	0000063-30	109	71.0	175	93.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Specific Conductivity-umhos/cm	0000063-30	109	71.0	177	95.8%	1.1%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8082 RCP

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Aroclor 1016-mg/kg	0023536-02			ND		
Aroclor 1221-mg/kg	0023536-02			ND		
Aroclor 1232-mg/kg	0023536-02			ND		
Aroclor 1242-mg/kg	0023536-02			ND		
Aroclor 1248-mg/kg	0023536-02			ND		
Aroclor 1254-mg/kg	0023536-02			ND		
Aroclor 1260-mg/kg	0023536-02			ND		
PCBs, Total-mg/kg	0023536-02			ND		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Aroclor 1016-mg/kg	0023536-03		10.0	9.4	94.%	
Aroclor 1260-mg/kg	0023536-03		10.0	9.5	95.%	
DUPLICATE SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Aroclor 1016-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1221-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1232-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1242-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1248-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1254-mg/kg	0000063-30	ND		ND		0.%
Aroclor 1260-mg/kg	0000063-30	ND		ND		0.%
PCBs, Total-mg/kg	0000063-30	ND		ND		0.%
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Aroclor 1016-mg/kg	0000063-30	ND	10.0	10.4	104.%	
Aroclor 1221-mg/kg	0000063-30	ND	0	ND	0.%	
Aroclor 1232-mg/kg	0000063-30	ND	0	ND	0.%	
Aroclor 1242-mg/kg	0000063-30	ND	0	ND	0.%	
Aroclor 1248-mg/kg	0000063-30	ND	0	ND	0.%	
Aroclor 1254-mg/kg	0000063-30	ND	0	ND	0.%	
Aroclor 1260-mg/kg	0000063-30	ND	10.0	12.0	120.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Aroclor 1016-mg/kg	0000063-30	ND	10.0	11.6	116.%	10.9%
Aroclor 1221-mg/kg	0000063-30	ND	0	ND	0.%	0.%
Aroclor 1232-mg/kg	0000063-30	ND	0	ND	0.%	0.%
Aroclor 1242-mg/kg	0000063-30	ND	0	ND	0.%	0.%
Aroclor 1248-mg/kg	0000063-30	ND	0	ND	0.%	0.%
Aroclor 1254-mg/kg	0000063-30	ND	0	ND	0.%	0.%
Aroclor 1260-mg/kg	0000063-30	ND	10.0	13.6	136.%	12.5%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8082 RCP

Order#: 0510098

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	Decachlorobiphenyl-SR	96%	30	150
BLANK	Tetrachloro-m-Xylene-SR	99%	30	150
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
CONTROL	Decachlorobiphenyl-SR	95%	30	150
CONTROL	Tetrachloro-m-Xylene-SR	98%	30	150
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
DUPLICATE	Decachlorobiphenyl-SR	65%	30	150
DUPLICATE	Tetrachloro-m-Xylene-SR	73%	30	150
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
MS	Decachlorobiphenyl-SR	75%	30	150
MS	Tetrachloro-m-Xylene-SR	83%	30	150
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
MSD	Decachlorobiphenyl-SR	86%	30	150
MSD	Tetrachloro-m-Xylene-SR	89%	30	150

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8270C SVOC RCP

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Pyridine-ug/Kg	0023500-02			ND		
Phenol-ug/Kg	0023500-02			ND		
2,4,6-Trichlorophenol-ug/Kg	0023500-02			ND		
bis(2-Chloroethoxy) methane-ug/Kg	0023500-02			ND		
bis(2-Chloroethyl) Ether-ug/Kg	0023500-02			ND		
2-Chlorophenol-ug/Kg	0023500-02			ND		
Aniline-ug/Kg	0023500-02			ND		
Bis(2-chloroisopropyl) ether-ug/Kg	0023500-02			ND		
2-Methylphenol-ug/Kg	0023500-02			ND		
4-Methylphenol-ug/Kg	0023500-02			ND		
N-Nitroso-di-n-propylamine-ug/Kg	0023500-02			ND		
Hexachloroethane-ug/Kg	0023500-02			ND		
Nitrobenzene-ug/Kg	0023500-02			ND		
Isophorone-ug/Kg	0023500-02			ND		
2-Nitrophenol-ug/Kg	0023500-02			ND		
2,4-Dimethylphenol-ug/Kg	0023500-02			ND		
1,2,4-Trichlorobenzene-ug/Kg	0023500-02			ND		
Naphthalene-ug/Kg	0023500-02			ND		
2,4-Dichlorophenol-ug/Kg	0023500-02			ND		
4-Chloroaniline-ug/Kg	0023500-02			ND		
Hexachlorobutadiene-ug/Kg	0023500-02			ND		
2-Methylnaphthalene-ug/Kg	0023500-02			ND		
4-Chloro-3-methylphenol-ug/Kg	0023500-02			ND		
Hexachlorocyclopentadiene-ug/Kg	0023500-02			ND		
1,2,4,5-Tetrachlorobenzene-ug/Kg	0023500-02			ND		
2,4,5-Trichlorophenol-ug/Kg	0023500-02			ND		
2-Chloronaphthalene-ug/Kg	0023500-02			ND		
2-Nitroaniline-ug/Kg	0023500-02			ND		
3-Nitroaniline-ug/Kg	0023500-02			ND		
Dimethylphthalate-ug/Kg	0023500-02			ND		
Acenaphthylene-ug/Kg	0023500-02			ND		
Acenaphthene-ug/Kg	0023500-02			ND		
2,4-Dinitrophenol-ug/Kg	0023500-02			ND		
Dibenzofuran-ug/Kg	0023500-02			ND		
2,4-Dinitrotoluene-ug/Kg	0023500-02			ND		
2,6-Dinitrotoluene-ug/Kg	0023500-02			ND		
4-Nitrophenol-ug/Kg	0023500-02			ND		
Diethylphthalate-ug/Kg	0023500-02			ND		
Fluorene-ug/Kg	0023500-02			ND		
4-Chlorophenyl phenylether-ug/Kg	0023500-02			ND		

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8270C SVOC RCP

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
N-Nitrosodiphenylamine-ug/Kg	0023500-02			ND		
4-Nitroaniline-ug/Kg	0023500-02			ND		
4,6-Dinitro-2-methylphenol-ug/Kg	0023500-02			ND		
4-Bromophenyl-phenylether-ug/Kg	0023500-02			ND		
Hexachlorobenzene-ug/Kg	0023500-02			ND		
Pentachloronitrobenzene-ug/Kg	0023500-02			ND		
Pentachlorophenol-ug/Kg	0023500-02			ND		
Phenanthrene-ug/Kg	0023500-02			ND		
Anthracene-ug/Kg	0023500-02			ND		
Carbazole-ug/Kg	0023500-02			ND		
Di-n-Butylphthalate-ug/Kg	0023500-02			ND		
Fluoranthene-ug/Kg	0023500-02			ND		
Pyrene-ug/Kg	0023500-02			ND		
Butylbenzylphthalate-ug/Kg	0023500-02			ND		
Benzo(a)anthracene-ug/Kg	0023500-02			ND		
3,3-Dichlorobenzidine-ug/Kg	0023500-02			ND		
Chrysene-ug/Kg	0023500-02			ND		
bis-(2-Ethylhexyl) phthalate-ug/Kg	0023500-02			ND		
Di-n-octylphthalate-ug/Kg	0023500-02			ND		
Benzo(b)fluoranthene-ug/Kg	0023500-02			ND		
Benzo(k)fluoranthene-ug/Kg	0023500-02			ND		
Benzo(a)pyrene-ug/Kg	0023500-02			ND		
Indeno(1,2,3-cd)Pyrene-ug/Kg	0023500-02			ND		
Benzo(g,h,i)Perylene-ug/Kg	0023500-02			ND		
Dibenzo(a,h)Anthracene-ug/Kg	0023500-02			ND		

CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Pyridine-ug/Kg	0023500-03		400	423	105.8%	
Phenol-ug/Kg	0023500-03		400	373	93.3%	
2,4,6-Trichlorophenol-ug/Kg	0023500-03		400	414	103.5%	
bis(2-Chloroethoxy) methane-ug/Kg	0023500-03		400	403	100.8%	
bis(2-Chloroethyl) Ether-ug/Kg	0023500-03		400	438	109.5%	
2-Chlorophenol-ug/Kg	0023500-03		400	425	106.3%	
Aniline-ug/Kg	0023500-03		400	442	110.5%	
Bis(2-chloroisopropyl) ether-ug/Kg	0023500-03		400	395	98.8%	
2-Methylphenol-ug/Kg	0023500-03		400	397	99.3%	
4-Methylphenol-ug/Kg	0023500-03		400	384	96.%	
N-Nitroso-di-n-propylamine-ug/Kg	0023500-03		400	408	102.%	
Hexachloroethane-ug/Kg	0023500-03		400	357	89.3%	
Nitrobenzene-ug/Kg	0023500-03		400	422	105.5%	

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8270C SVOC RCP

Order#: 0510098

CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Isophorone-ug/Kg	0023500-03		400	365	91.3%	
2-Nitrophenol-ug/Kg	0023500-03		400	360	90.%	
2,4-Dimethylphenol-ug/Kg	0023500-03		400	372	93.%	
1,2,4-Trichlorobenzene-ug/Kg	0023500-03		400	405	101.3%	
Naphthalene-ug/Kg	0023500-03		400	357	89.3%	
2,4-Dichlorophenol-ug/Kg	0023500-03		400	353	88.3%	
4-Chloroaniline-ug/Kg	0023500-03		400	319	79.8%	
Hexachlorobutadiene-ug/Kg	0023500-03		400	351	87.8%	
2-Methylnaphthalene-ug/Kg	0023500-03		400	406	101.5%	
4-Chloro-3-methylphenol-ug/Kg	0023500-03		400	402	100.5%	
Hexachlorocyclopentadiene-ug/Kg	0023500-03		400	402	100.5%	
1,2,4,5-Tetrachlorobenzene-ug/Kg	0023500-03		400	466	116.5%	
2,4,5-Trichlorophenol-ug/Kg	0023500-03		400	361	90.3%	
2-Chloronaphthalene-ug/Kg	0023500-03		400	416	104.%	
2-Nitroaniline-ug/Kg	0023500-03		400	382	95.5%	
3-Nitroaniline-ug/Kg	0023500-03		400	396	99.%	
Dimethylphthalate-ug/Kg	0023500-03		400	382	95.5%	
Acenaphthylene-ug/Kg	0023500-03		400	414	103.5%	
Acenaphthene-ug/Kg	0023500-03		400	420	105.%	
2,4-Dinitrophenol-ug/Kg	0023500-03		400	0	0.%	
Dibenzofuran-ug/Kg	0023500-03		400	446	111.5%	
2,4-Dinitrotoluene-ug/Kg	0023500-03		400	380	95.%	
2,6-Dinitrotoluene-ug/Kg	0023500-03		400	380	95.%	
4-Nitrophenol-ug/Kg	0023500-03		400	371	92.8%	
Diethylphthalate-ug/Kg	0023500-03		400	409	102.3%	
Fluorene-ug/Kg	0023500-03		400	400	100.%	
4-Chlorophenyl phenylether-ug/Kg	0023500-03		400	385	96.3%	
N-Nitrosodiphenylamine-ug/Kg	0023500-03		400	385	96.3%	
4-Nitroaniline-ug/Kg	0023500-03		400	387	96.8%	
4,6-Dinitro-2-methylphenol-ug/Kg	0023500-03		400	334	83.5%	
4-Bromophenyl-phenylether-ug/Kg	0023500-03		400	413	103.3%	
Hexachlorobenzene-ug/Kg	0023500-03		400	424	106.%	
Pentachloronitrobenzene-ug/Kg	0023500-03		400	365	91.3%	
Pentachlorophenol-ug/Kg	0023500-03		400	78.0	19.5%	
Phenanthrene-ug/Kg	0023500-03		400	400	100.%	
Anthracene-ug/Kg	0023500-03		400	405	101.3%	
Carbazole-ug/Kg	0023500-03		400	415	103.8%	
Di-n-Butylphthalate-ug/Kg	0023500-03		400	378	94.5%	
Fluoranthene-ug/Kg	0023500-03		400	449	112.3%	
Pyrene-ug/Kg	0023500-03		400	432	108.%	

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA Method 8270C SVOC RCP

Order#: 0510098

CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Butylbenzylphthalate-ug/Kg	0023500-03		400	383	95.8%	
Benzo(a)anthracene-ug/Kg	0023500-03		400	405	101.3%	
3,3-Dichlorobenzidine-ug/Kg	0023500-03		400	368	92.%	
Chrysene-ug/Kg	0023500-03		400	417	104.3%	
bis-(2-Ethylhexyl) phthalate-ug/Kg	0023500-03		400	483	120.8%	
Di-n-octylphthalate-ug/Kg	0023500-03		400	431	107.8%	
Benzo(b)fluoranthene-ug/Kg	0023500-03		400	441	110.3%	
Benzo(k)fluoranthene-ug/Kg	0023500-03		400	468	117.%	
Benzo(a)pyrene-ug/Kg	0023500-03		400	413	103.3%	
Indeno(1,2,3-cd)Pyrene-ug/Kg	0023500-03		400	311	77.8%	
Benzo(g,h,i)Perylene-ug/Kg	0023500-03		400	303	75.8%	
Dibenzo(a,h)Anthracene-ug/Kg	0023500-03		400	317	79.3%	
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Pyridine-ug/Kg	0000063-30	ND	400	400	100.%	
Phenol-ug/Kg	0000063-30	ND	400	334	83.5%	
2,4,6-Trichlorophenol-ug/Kg	0000063-30	ND	400	392	98.%	
bis(2-Chloroethoxy) methane-ug/Kg	0000063-30	ND	400	375	93.8%	
bis(2-Chloroethyl) Ether-ug/Kg	0000063-30	ND	400	434	108.5%	
2-Chlorophenol-ug/Kg	0000063-30	ND	400	413	103.3%	
Aniline-ug/Kg	0000063-30	ND	400	400	100.%	
Bis(2-chloroisopropyl) ether-ug/Kg	0000063-30	ND	400	416	104.%	
2-Methylphenol-ug/Kg	0000063-30	ND	400	383	95.8%	
4-Methylphenol-ug/Kg	0000063-30	ND	400	408	102.%	
N-Nitroso-di-n-propylamine-ug/Kg	0000063-30	ND	400	424	106.%	
Hexachloroethane-ug/Kg	0000063-30	ND	400	339	84.8%	
Nitrobenzene-ug/Kg	0000063-30	ND	400	411	102.8%	
Isophorone-ug/Kg	0000063-30	ND	400	302	75.5%	
2-Nitrophenol-ug/Kg	0000063-30	ND	400	356	89.%	
2,4-Dimethylphenol-ug/Kg	0000063-30	ND	400	419	104.8%	
1,2,4-Trichlorobenzene-ug/Kg	0000063-30	ND	400	397	99.3%	
Naphthalene-ug/Kg	0000063-30	ND	400	440	110.%	
2,4-Dichlorophenol-ug/Kg	0000063-30	ND	400	392	98.%	
4-Chloroaniline-ug/Kg	0000063-30	ND	400	406	101.5%	
Hexachlorobutadiene-ug/Kg	0000063-30	ND	400	311	77.8%	
2-Methylnaphthalene-ug/Kg	0000063-30	ND	400	418	104.5%	
4-Chloro-3-methylphenol-ug/Kg	0000063-30	ND	400	338	84.5%	
Hexachlorocyclopentadiene-ug/Kg	0000063-30	ND	400	383	95.8%	
1,2,4,5-Tetrachlorobenzene-ug/Kg	0000063-30	ND	400	436	109.%	
2,4,5-Trichlorophenol-ug/Kg	0000063-30	ND	400	398	99.5%	

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MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
2-Chloronaphthalene-ug/Kg	0000063-30	ND	400	434	108.5%	
2-Nitroaniline-ug/Kg	0000063-30	ND	400	365	91.3%	
3-Nitroaniline-ug/Kg	0000063-30	ND	400	354	88.5%	
Dimethylphthalate-ug/Kg	0000063-30	ND	400	402	100.5%	
Acenaphthylene-ug/Kg	0000063-30	ND	400	424	106.%	
Acenaphthene-ug/Kg	0000063-30	ND	400	433	108.3%	
2,4-Dinitrophenol-ug/Kg	0000063-30	ND	400	0	0.%	
Dibenzofuran-ug/Kg	0000063-30	ND	400	463	115.8%	
2,4-Dinitrotoluene-ug/Kg	0000063-30	ND	400	368	92.%	
2,6-Dinitrotoluene-ug/Kg	0000063-30	ND	400	368	92.%	
4-Nitrophenol-ug/Kg	0000063-30	ND	400	367	91.8%	
Diethylphthalate-ug/Kg	0000063-30	ND	400	379	94.8%	
Fluorene-ug/Kg	0000063-30	ND	400	367	91.8%	
4-Chlorophenyl phenylether-ug/Kg	0000063-30	ND	400	346	86.5%	
N-Nitrosodiphenylamine-ug/Kg	0000063-30	ND	400	374	93.5%	
4-Nitroaniline-ug/Kg	0000063-30	ND	400	370	92.5%	
4,6-Dinitro-2-methylphenol-ug/Kg	0000063-30	ND	400	0	0.%	
4-Bromophenyl-phenylether-ug/Kg	0000063-30	ND	400	398	99.5%	
Hexachlorobenzene-ug/Kg	0000063-30	ND	400	392	98.%	
Pentachloronitrobenzene-ug/Kg	0000063-30	ND	400	340	85.%	
Pentachlorophenol-ug/Kg	0000063-30	ND	400	185	46.3%	
Phenanthrene-ug/Kg	0000063-30	248	400	657	102.3%	
Anthracene-ug/Kg	0000063-30	ND	400	476	119.%	
Carbazole-ug/Kg	0000063-30	ND	400	435	108.8%	
Di-n-Butylphthalate-ug/Kg	0000063-30	ND	400	395	98.8%	
Fluoranthene-ug/Kg	0000063-30	397	400	826	107.3%	
Pyrene-ug/Kg	0000063-30	326	400	728	100.5%	
Butylbenzylphthalate-ug/Kg	0000063-30	ND	400	414	103.5%	
Benzo(a)anthracene-ug/Kg	0000063-30	220	400	621	100.3%	
3,3-Dichlorobenzidine-ug/Kg	0000063-30	ND	400	463	115.8%	
Chrysene-ug/Kg	0000063-30	212	400	609	99.3%	
bis-(2-Ethylhexyl) phthalate-ug/Kg	0000063-30	ND	400	404	101.%	
Di-n-octylphthalate-ug/Kg	0000063-30	ND	400	433	108.3%	
Benzo(b)fluoranthene-ug/Kg	0000063-30	259	400	661	100.5%	
Benzo(k)fluoranthene-ug/Kg	0000063-30	102	400	723	155.3%	
Benzo(a)pyrene-ug/Kg	0000063-30	174	400	601	106.8%	
Indeno(1,2,3-cd)Pyrene-ug/Kg	0000063-30	ND	400	471	117.8%	
Benzo(g,h,i)Perylene-ug/Kg	0000063-30	ND	400	475	118.8%	
Dibenzo(a,h)Anthracene-ug/Kg	0000063-30	ND	400	439	109.8%	

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MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Pyridine-ug/Kg	0000063-30	ND	400	381	95.3%	4.9%
Phenol-ug/Kg	0000063-30	ND	400	337	84.3%	0.9%
2,4,6-Trichlorophenol-ug/Kg	0000063-30	ND	400	386	96.5%	1.5%
bis(2-Chloroethoxy) methane-ug/Kg	0000063-30	ND	400	375	93.8%	0.%
bis(2-Chloroethyl) Ether-ug/Kg	0000063-30	ND	400	426	106.5%	1.9%
2-Chlorophenol-ug/Kg	0000063-30	ND	400	410	102.5%	0.7%
Aniline-ug/Kg	0000063-30	ND	400	395	98.8%	1.3%
Bis(2-chloroisopropyl) ether-ug/Kg	0000063-30	ND	400	411	102.8%	1.2%
2-Methylphenol-ug/Kg	0000063-30	ND	400	383	95.8%	0.%
4-Methylphenol-ug/Kg	0000063-30	ND	400	402	100.5%	1.5%
N-Nitroso-di-n-propylamine-ug/Kg	0000063-30	ND	400	415	103.8%	2.1%
Hexachloroethane-ug/Kg	0000063-30	ND	400	335	83.8%	1.2%
Nitrobenzene-ug/Kg	0000063-30	ND	400	410	102.5%	0.2%
Isophorone-ug/Kg	0000063-30	ND	400	329	82.3%	8.6%
2-Nitrophenol-ug/Kg	0000063-30	ND	400	347	86.8%	2.6%
2,4-Dimethylphenol-ug/Kg	0000063-30	ND	400	411	102.8%	1.9%
1,2,4-Trichlorobenzene-ug/Kg	0000063-30	ND	400	389	97.3%	2.%
Naphthalene-ug/Kg	0000063-30	ND	400	430	107.5%	2.3%
2,4-Dichlorophenol-ug/Kg	0000063-30	ND	400	385	96.3%	1.8%
4-Chloroaniline-ug/Kg	0000063-30	ND	400	388	97.%	4.5%
Hexachlorobutadiene-ug/Kg	0000063-30	ND	400	320	80.%	2.9%
2-Methylnaphthalene-ug/Kg	0000063-30	ND	400	410	102.5%	1.9%
4-Chloro-3-methylphenol-ug/Kg	0000063-30	ND	400	395	98.8%	15.6%
Hexachlorocyclopentadiene-ug/Kg	0000063-30	ND	400	388	97.%	1.3%
1,2,4,5-Tetrachlorobenzene-ug/Kg	0000063-30	ND	400	443	110.8%	1.6%
2,4,5-Trichlorophenol-ug/Kg	0000063-30	ND	400	410	102.5%	3.%
2-Chloronaphthalene-ug/Kg	0000063-30	ND	400	458	114.5%	5.4%
2-Nitroaniline-ug/Kg	0000063-30	ND	400	355	88.8%	2.8%
3-Nitroaniline-ug/Kg	0000063-30	ND	400	344	86.%	2.9%
Dimethylphthalate-ug/Kg	0000063-30	ND	400	399	99.8%	0.7%
Acenaphthylene-ug/Kg	0000063-30	ND	400	441	110.3%	3.9%
Acenaphthene-ug/Kg	0000063-30	ND	400	418	104.5%	3.5%
2,4-Dinitrophenol-ug/Kg	0000063-30	ND	400	0	0.%	0.%
Dibenzofuran-ug/Kg	0000063-30	ND	400	440	110.%	5.1%
2,4-Dinitrotoluene-ug/Kg	0000063-30	ND	400	359	89.8%	2.5%
2,6-Dinitrotoluene-ug/Kg	0000063-30	ND	400	359	89.8%	2.5%
4-Nitrophenol-ug/Kg	0000063-30	ND	400	356	89.%	3.%
Diethylphthalate-ug/Kg	0000063-30	ND	400	382	95.5%	0.8%
Fluorene-ug/Kg	0000063-30	ND	400	357	89.3%	2.8%
4-Chlorophenyl phenylether-ug/Kg	0000063-30	ND	400	365	91.3%	5.3%

Connecticut Testing Laboratories, Inc.

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MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
N-Nitrosodiphenylamine-ug/Kg	0000063-30	ND	400	389	97.3%	3.9%
4-Nitroaniline-ug/Kg	0000063-30	ND	400	364	91.%	1.6%
4,6-Dinitro-2-methylphenol-ug/Kg	0000063-30	ND	400	0	0.%	0.%
4-Bromophenyl-phenylether-ug/Kg	0000063-30	ND	400	396	99.%	0.5%
Hexachlorobenzene-ug/Kg	0000063-30	ND	400	400	100.%	2.%
Pentachloronitrobenzene-ug/Kg	0000063-30	ND	400	350	87.5%	2.9%
Pentachlorophenol-ug/Kg	0000063-30	ND	400	190	47.5%	2.7%
Phenanthrene-ug/Kg	0000063-30	248	400	661	103.3%	0.6%
Anthracene-ug/Kg	0000063-30	ND	400	465	116.3%	2.3%
Carbazole-ug/Kg	0000063-30	ND	400	441	110.3%	1.4%
Di-n-Butylphthalate-ug/Kg	0000063-30	ND	400	409	102.3%	3.5%
Fluoranthene-ug/Kg	0000063-30	397	400	824	106.8%	0.2%
Pyrene-ug/Kg	0000063-30	326	400	721	98.8%	1.%
Butylbenzylphthalate-ug/Kg	0000063-30	ND	400	425	106.3%	2.6%
Benzo(a)anthracene-ug/Kg	0000063-30	220	400	622	100.5%	0.2%
3,3-Dichlorobenzidine-ug/Kg	0000063-30	ND	400	480	120.%	3.6%
Chrysene-ug/Kg	0000063-30	212	400	600	97.%	1.5%
bis-(2-Ethylhexyl) phthalate-ug/Kg	0000063-30	ND	400	408	102.%	1.%
Di-n-octylphthalate-ug/Kg	0000063-30	ND	400	415	103.8%	4.2%
Benzo(b)fluoranthene-ug/Kg	0000063-30	259	400	658	99.8%	0.5%
Benzo(k)fluoranthene-ug/Kg	0000063-30	102	400	732	157.5%	1.2%
Benzo(a)pyrene-ug/Kg	0000063-30	174	400	596	105.5%	0.8%
Indeno(1,2,3-cd)Pyrene-ug/Kg	0000063-30	ND	400	507	126.8%	7.4%
Benzo(g,h,i)Perylene-ug/Kg	0000063-30	ND	400	479	119.8%	0.8%
Dibenzo(a,h)Anthracene-ug/Kg	0000063-30	ND	400	427	106.8%	2.8%

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

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Order#: 0510098

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	2-Fluorophenol	101%	40	130
BLANK	Phenol-d6	100%	40	130
BLANK	Nitrobenzene-d5	105%	40	130
BLANK	2-Fluorobiphenyl	111%	40	130
BLANK	2,4,6-Tribromophenol	101%	40	130
BLANK	p-Terphenyl-d14	125%	40	130
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
CONTROL	2-Fluorophenol	100%	40	130
CONTROL	Phenol-d6	99%	40	130
CONTROL	Nitrobenzene-d5	102%	40	130
CONTROL	2-Fluorobiphenyl	107%	40	130
CONTROL	2,4,6-Tribromophenol	103%	40	130
CONTROL	p-Terphenyl-d14	99%	40	130
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
MS	2-Fluorophenol	100%	40	130
MS	Phenol-d6	99%	40	130
MS	Nitrobenzene-d5	113%	40	130
MS	2-Fluorobiphenyl	79%	40	130
MS	2,4,6-Tribromophenol	106%	40	130
MS	p-Terphenyl-d14	67%	40	130
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
MSD	2-Fluorophenol	103%	40	130
MSD	Phenol-d6	107%	40	130
MSD	Nitrobenzene-d5	102%	40	130
MSD	2-Fluorobiphenyl	97%	40	130
MSD	2,4,6-Tribromophenol	97%	40	130
MSD	p-Terphenyl-d14	64%	40	130

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**Connecticut Testing Lab's, Inc.**	Client:	**Paul Burgess, LLC**
Project Location:		Project Number:	**Baltic Mills**
Laboratory Sample Id(s):	**6325-27, 30, 31, 33, 34**	Sampling Date(s):	**5/6/10-5/7/10**
List RCP Method(s) Used:	**8270, 6010, 1311, 1312**	CTL Lab #:	**0510098**
			Revision 1.0

Reactivation ☐ Date Reactivated:

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	*VPH and EPH Methods only*: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (<6° C°)? ☒ Iced ☐ No Ice	☒ Yes ☐ No ☐ N/A
4	Was all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☒ No Partial 6010 and 8270 lists
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☒ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence." This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: **Lab Director PH-0547**

Printed Name: **Stephen J. Franco** Date: **5/24/10**

Name of Laboratory: **Connecticut Testing Laboratories, Inc.**

CASE NARRATIVE

Connecticut Testing Laboratories, Inc.

Prepared for:

Paul Burgess, LLC
36 Elm Street
Stonington, CT 06378

Order#: **0510098**

Project: **Baltic Mills**

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
TP-101 (1-8')	6325	SOIL	05/06/2010	05/07/2010
TP-102 (3')	6326	SOIL	05/06/2010	05/07/2010
TP-103 (2')	6327	SOIL	05/06/2010	05/07/2010
TP-105 (1-2')	6328	SOIL	05/06/2010	05/07/2010
TP-112 (7')	6329	SOIL	05/07/2010	05/07/2010
TP-114 (2')	6330	SOIL	05/07/2010	05/07/2010
TP-119 (3-6')	6331	SOIL	05/07/2010	05/07/2010
TP-1190	6332	SOIL	05/07/2010	05/07/2010
TP-121 (1-3')	6333	SOIL	05/07/2010	05/07/2010
TP-122 (6')	6334	SOIL	05/07/2010	05/07/2010

Additional analysis was requested on 5/17/10.

The following analytes do not meet RCP criteria in the SVOC ICV (SIM mode) with <80% recovery; Benzo(a)anthracene (79%) & Benzo(k) fluoranthene (77%).

The following analyte does not meet RCP criteria in the SVOC CCAL (Scan mode) with >30% drift from the initial calibration; Benzo(ghi)perylene (39% D).

The enclosed results of analyses are representative of the samples as received by the laboratory. Connecticut Testing Laboratories, Inc. makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Date:

Connecticut Testing Laboratories, Inc.

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/24/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL	SOIL	SOIL	
CTL Sample No.:			6325	6326	6327	6330	
Field ID:			TP-101 (1-8')	TP-102 (3')	TP-103 (2')	TP-114 (2')	
Parameters	**Date Tested**	**RL**					**Method #**
Lead - TCLP-mg/L	05/21/2010	0.005	0.448	0.873	0.225	0.183	6010B/1311

RL=Reporting Level ND = None Detected

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547 / MA-CT035

Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/24/2010	PO No:	Baltic Mills
		Analyst:	MH

RESULTS OF ANALYSIS

Matrix Type:			SOIL	SOIL			
CTL Sample No.:			6331	6333			
Field ID:			TP-119 (3-6')	TP-121 (1-3')			
Parameters	**Date Tested**	**RL**					**Method #**
Lead - TCLP-mg/L	05/21/2010	0.005	1.40	0.090	--	--	6010B/1311

RL=Reporting Level ND = None Detected

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Date Samples Received: 05/07/2010

Client Name:	Paul Burgess, LLC	CTL Lab No.:	0510098
Report Date:	05/24/2010	PO No:	Baltic Mills
Method #:	8270C/1312	Analyst:	PP

RESULTS OF ANALYSIS

EPA 8270C PAH SPLP RCP

Matrix Type:	SOIL	SOIL	SOIL
CTL Sample No.:	6326	6327	6334
Field ID:	TP-102 (3')	TP-103 (2')	TP-122 (6')
Date Analyzed:	05/20/2010	05/20/2010	05/20/2010
Date Extracted:	05/20/2010	05/20/2010	05/20/2010

Parameters	**Units**	**RL**				
Naphthalene	ug/L	2	ND	14.0	ND	--
2-Methylnaphthalene	ug/L	5	ND	12.0	ND	--
2-Chloronaphthalene	ug/L	5	ND	ND	ND	--
Acenaphthylene	ug/L	0.3	ND	18.0	ND	--
Acenaphthene	ug/L	2	ND	11.0	ND	--
Fluorene	ug/L	2	ND	24.0	ND	--
Phenanthrene	ug/L	0.07	2.9	123.0	0.48	--
Anthracene	ug/L	2	ND	24.0	ND	--
Carbazole	ug/L	5	ND	84.0	ND	--
Fluoranthene	ug/L	2	ND	26.0	4.0	--
Pyrene	ug/L	2	ND	19.0	3.0	--
Benzo(a)anthracene	ug/L	0.06	ND	2.9	ND	--
Chrysene	ug/L	2	ND	ND	ND	--
Benzo(b)fluoranthene	ug/L	0.08	ND	0.93	0.45	--
Benzo(k)fluoranthene	ug/L	0.3	ND	ND	ND	--
Benzo(a)pyrene	ug/L	0.2	ND	0.4	ND	--
Indeno(1,2,3-cd)Pyrene	ug/L	0.2	ND	ND	ND	--
Dibenzo(a,h)Anthracene	ug/L	0.2	ND	ND	ND	--
Benzo(g,h,i)Perylene	ug/L	10	ND	ND	ND	--
Nitrobenzene-d5	%	----	89	112	110	--
2-Fluorobiphenyl	%	----	103	109	105	--
p-Terphenyl-d14	%	-----	96	110	90	--

RL=Reporting Level ND = None Detected

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Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

Test Parameters

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Lead - TCLP-mg/L	0023587-01			ND		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Lead - TCLP-mg/L	0023587-02		0.409	0.387	94.6%	

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA 8270C PAH SPLP RCP

Order#: 0510098

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Naphthalene-ug/L	0023595-02			ND		
2-Methylnaphthalene-ug/L	0023595-02			ND		
2-Chloronaphthalene-ug/L	0023595-02			ND		
Acenaphthylene-ug/L	0023595-02			ND		
Acenaphthene-ug/L	0023595-02			ND		
Fluorene-ug/L	0023595-02			ND		
Phenanthrene-ug/L	0023595-02			ND		
Anthracene-ug/L	0023595-02			ND		
Carbazole-ug/L	0023595-02			ND		
Fluoranthene-ug/L	0023595-02			ND		
Pyrene-ug/L	0023595-02			ND		
Benzo(a)anthracene-ug/L	0023595-02			ND		
Chrysene-ug/L	0023595-02			ND		
Benzo(b)fluoranthene-ug/L	0023595-02			ND		
Benzo(k)fluoranthene-ug/L	0023595-02			ND		
Benzo(a)pyrene-ug/L	0023595-02			ND		
Indeno(1,2,3-cd)Pyrene-ug/L	0023595-02			ND		
Dibenzo(a,h)Anthracene-ug/L	0023595-02			ND		
Benzo(g,h,i)Perylene-ug/L	0023595-02			ND		

CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Naphthalene-ug/L	0023595-03		50.0	42.0	84.%	
2-Methylnaphthalene-ug/L	0023595-03		50.0	42.0	84.%	
2-Chloronaphthalene-ug/L	0023595-03		50.0	40.0	80.%	
Acenaphthylene-ug/L	0023595-03		0.20	0.220	110.%	
Acenaphthene-ug/L	0023595-03		50.0	42.0	84.%	
Fluorene-ug/L	0023595-03		50.0	39.0	78.%	
Phenanthrene-ug/L	0023595-03		0.20	0.250	125.%	
Anthracene-ug/L	0023595-03		50.0	40.0	80.%	
Carbazole-ug/L	0023595-03		50.0	38.0	76.%	
Fluoranthene-ug/L	0023595-03		50.0	42.0	84.%	
Pyrene-ug/L	0023595-03		50.0	43.0	86.%	
Benzo(a)anthracene-ug/L	0023595-03		0.20	0.180	90.%	
Chrysene-ug/L	0023595-03		50.0	39.0	78.%	
Benzo(b)fluoranthene-ug/L	0023595-03		0.20	0.210	105.%	
Benzo(k)fluoranthene-ug/L	0023595-03		0.20	0.170	85.%	
Benzo(a)pyrene-ug/L	0023595-03		0.20	0.220	110.%	
Indeno(1,2,3-cd)Pyrene-ug/L	0023595-03		0.20	0.180	90.%	
Dibenzo(a,h)Anthracene-ug/L	0023595-03		0.20	0.210	105.%	
Benzo(g,h,i)Perylene-ug/L	0023595-03		50.0	31.0	62.%	

Connecticut Testing Laboratories, Inc.

QUALITY CONTROL REPORT

EPA 8270C PAH SPLP RCP

Order#: 0510098

Type of QC	Surrogates	% Recovered	QC Limits (%)	
BLANK	Nitrobenzene-d5	94%	40	130
BLANK	2-Fluorobiphenyl	92%	40	130
BLANK	p-Terphenyl-d14	104%	40	130
Type of QC	**Surrogates**	**% Recovered**	**QC Limits (%)**	
CONTROL	Nitrobenzene-d5	102%	40	130
CONTROL	2-Fluorobiphenyl	111%	40	130
CONTROL	p-Terphenyl-d14	108%	40	130

DATA QUALITY ASSESSMENT AND USABILITY EVALUATION

RCP Variations reported by Conn. Testing Laboratory	Predicted Bias	Comments
SVOC ICAL with RF values of <0.05; 2,4 - Dinitrophenol, 4,6-Dinitro-2-methylphenol & Pentachlorophenol.	Non Directional.	Poorly performing compound. All not detected. Not significant.
SVOC ICV with <80% recovery; 2,4 - Dinitrophenol (56%) & Pentachlorophenol (18%).	Potential low bias.	Poorly performing compound. All not detected. Not significant.
SVOC CCAL with >30% drift from the initial calibration; 2,4-Dinitrophenol (100% D) & Pentachlorophenol (81% D). This CCAL was also used as the LCS sample and therefore these analytes do not meet RCP criteria with <30% recovery.	Potential low bias based on low recovery.	Poorly performing compound. All not detected. Not significant.
CTL sample TP-103 was diluted for SVOC analysis and the reporting levels have been raised accordingly.	Potential low based re: detection limit.	SVOCs detected above RSR criteria. Not Significant.
CTL sample nos. TP-101, TP-102 & T-122 were diluted after the initial SVOC run, since many analytes were detected at concentrations above the calibration curve. Data for these analytes was taken from the diluted aliquot run, and all other numbers were reported from the initial undiluted run.	Potential low bias.	SVOCs detected above RSR for TP-102 and TP-122. SVOCs detected at TP-101 (within proposed remediation area). Not significant.
SVOC RCP criteria in the MS/MSD analysis performed on CTL sample no. TP-114 with <30% recovery; 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol & Benzo(k)fluoranthene.	Potential low bias.	2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol are poorly performing compounds. Not detected. TP-114 within proposed remediation area. Not significant.
CTL sample no. TP-105 was diluted for Total Lead analysis and the reporting level has been raised accordingly.	Potential low based re: detection limit.	Lead detected above RSR criteria. Not Significant.
TP-102,103 &122 SPLP-SVOC ICV (SIM mode) with <80% recovery; Benzo(a)anthracene (79%) & Benzo(k) fluoranthene (77%).	Slight low bias.	Benzo(a)anthracene detected above RSRs for TP-103. All other samples not detected. Not significant.
TP-102,103 &122 SPLP- SVOC CCAL (Scan mode) with >30% drift from the initial calibration; Benzo(ghi)perylene (39% D).	Non directional bias.	Not detected. Not significant.

CCAL- Continued Calibration Standard
LCS- Laboratory Control Sample
RCP- CTDEP Laboratory Reasonable Confidence Protocols
ICAL- Initial Calibration
ICV- Initial Calibration Value
RF- Response Factor

The relative percent difference for the duplicate sample TP-1190 and TP-119 meets acceptable RCP guidance.

Appendix D

Soil Statistical Analysis

Arsenic 95% Upper Confidence Level Of Arithmetic Mean

Sample	Concentration	ln Concentration
TP-11(4')	5.6000	1.7228
TP-12(2')	6.2000	1.8245
TP-13(1')	5.1000	1.6292
TP-14(2')	6.9000	1.9315
TP-14(8')	4.8000	1.5686
TP-15(2')	8.1000	2.0919
TP-16(2')	7.2000	1.9741
TP-17(5')	5.3000	1.6677
TP-18(2.5')	9.0000	2.1972
TP-19(2')	5.5000	1.7047
TP-22(2')	8.6000	2.1518
TP-25(5')	3.1000	1.1314
TP-27	3.3000	1.1939
TP-28(5.5)	7.7000	2.0412
TP-29(3-5')	6.8000	1.9169
TP-30(4-4.5)	5.5000	1.7047
TP-31	7.2000	1.9741
TP-32	6.0000	1.7918
TP-33(6-7)	8.0000	2.0794
TP-34(6-7)	7.3000	1.9879
TP-101(1-8')	5.5000	1.7047
TP-102(3')	16.9000	2.8273
TP-103(2')	4.5000	1.5041
TP-105(1-2')	14.5000	2.6741
TP-112(7')	10.5000	2.3514
TP-114(2')	10.7000	2.3702
TP-119(3-6')	6.7000	1.9021
TP-121(1-3')	7.4000	2.0015
TP-122(6')	3.1000	1.1314

AVERAGE	7.1379	1.8880
$TINV_{.90}$	1.7033	3.779
STDEVA	3.0556	0.2870
Sx	0.5674	
Count	29.0000	
$UCL_{.95}$	**8.1044**	**8.4500**
$UCL_{.95}$	**8.1032**	