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ECOLOGICAL IMPACT STUDY

Sumner Brook
Middletown, Connecticut

Prepared for
City of Middletown

Prepared by
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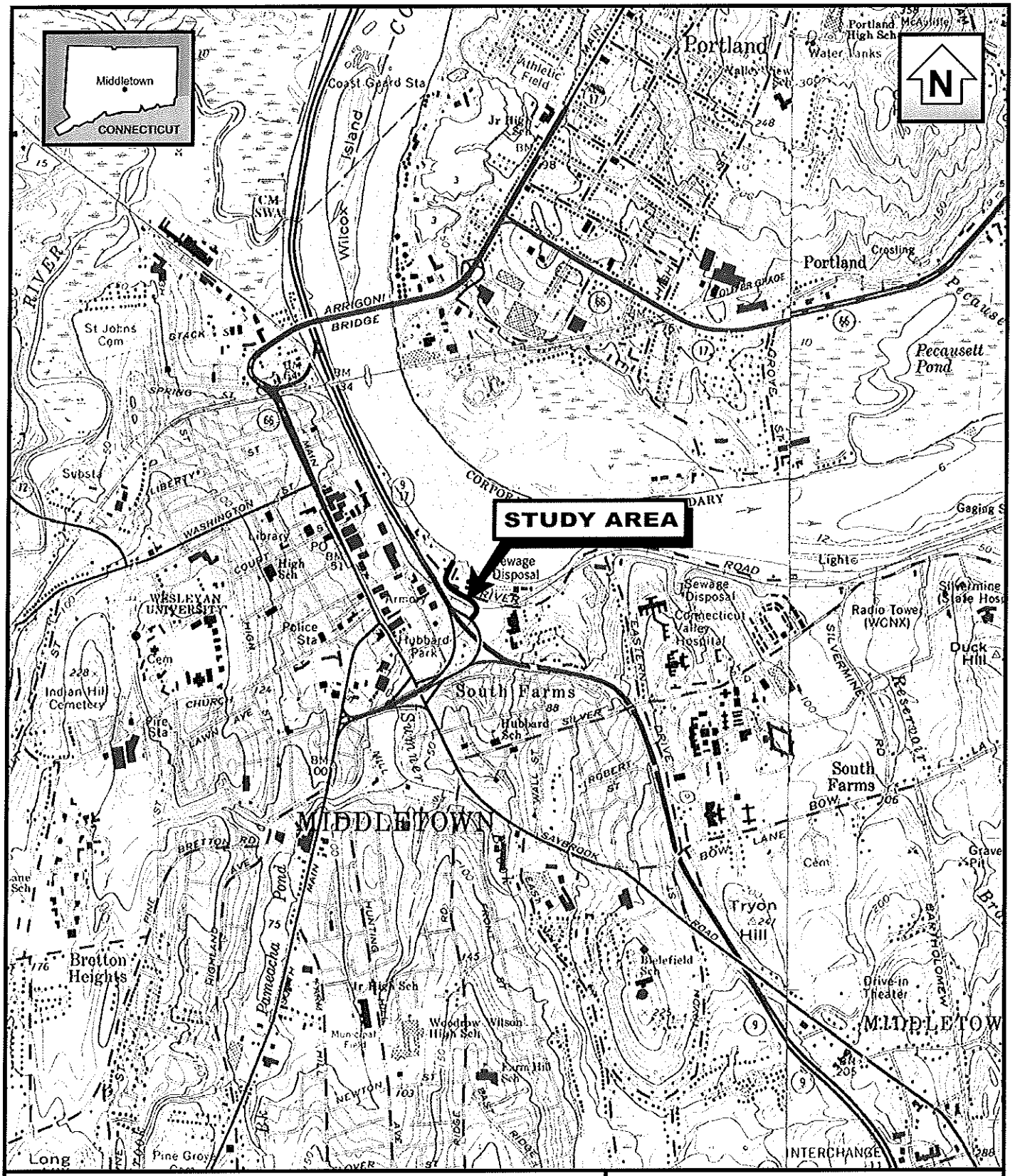
1.0 Introduction

This ecological impact study briefly describes the aquatic habitat provided by a portion of Sumner Brook and discusses potential risks to receptors that may inhabit this stream. Sumner Brook is a perennial stream approximately seven miles in length that flows from Millers Pond in Durham, Connecticut to the Connecticut River in Middletown, Connecticut. Although the upper portion of Sumner Brook is located primarily within undeveloped woodlands, the lower two miles of the stream are located within fairly urbanized areas of the City of Middletown. This report evaluates the lower portion of Sumner Brook consisting of a length of approximately 1,000 feet upstream from the Connecticut River and downstream of Route 9 (Figure 1). This portion of the stream is located in an area of current and former commercial/industrial uses. The objective of the environmental risk characterization conducted by TRC Environmental Corporation (TRC) is to determine if contaminants are present in the lower portion of Sumner Brook at elevated concentrations that may potentially result in adverse effects to ecological receptors inhabiting the stream. This ecological impact study is the fourth project under the City of Middletown's Brownfields Redevelopment Initiative as funded under the U.S. Environmental Protection Agency's (EPA) Brownfields Demonstration Pilot Program.

2.0 Historic Land Use Patterns

The Study Area consists of the lower 1,000 feet of Sumner Brook and its adjacent banks. The banks of Sumner Brook are primarily undeveloped. The River Road Bridge and a Conrail railroad bridge cross Sumner Brook approximately 400 feet and 900 feet, respectively, upstream of the stream's discharge to the Connecticut River. Harbor Park, maintained by the City of Middletown, is situated along the west bank of Sumner Brook between River Road and the Connecticut River. The site of the former Peterson Oil Company (currently the site of the Weston Construction Company) are situated along the east bank of Sumner Brook between River Road and the Connecticut River. The remaining length of Sumner Brook upstream of the River Road Bridge is primarily bounded to the north by River Road and to the south by the Conrail railroad right-of-way. The remainder of the former Peterson Oil Company site and the City of Middletown waste water treatment plant are located to the north of Sumner Brook, on the



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BASE CREATED WITH TOPO™ © 1996 WILDFLOWERS PRODUCTIONS, www.topo.com
MIDDLETOWN AND MIDDLE HADDAM, CT - 7.5' USGS TOPOGRAPHIC MAPS

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SUMNER BROOK - ECOLOGICAL IMPACT STUDY
MIDDLETOWN, CONNECTICUT

FIGURE 1

SITE LOCATION MAP

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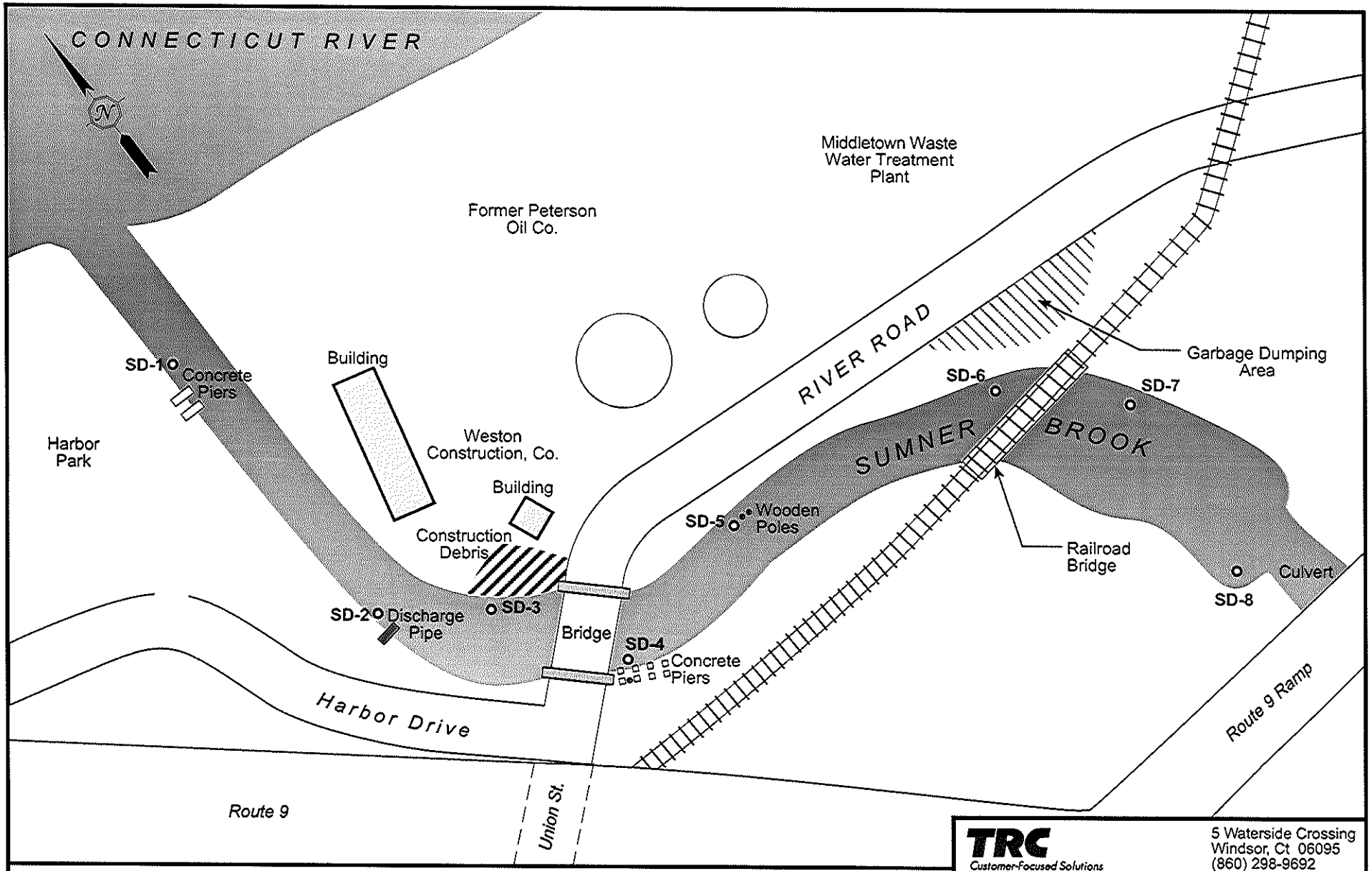
25863.FH8



KEY

SD-1 ○ Proposed Surface Water/Sediment Sampling Location

• 55-Gallon Drum

NOT TO SCALE

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SUMNER BROOK - ECOLOGICAL IMPACT STUDY
MIDDLETOWN, CONNECTICUT

FIGURE 2
SUMNER BROOK ECOLOGICAL IMPACT STUDY

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graphics/brownfields/middletown/sumnerbrk.fh9

opposite side of River Road. Route 9 forms the upstream limits of the Sumner Brook Study Area.

Historical aerial photographs and Sanborn fire insurance maps indicate that the area surrounding the Sumner Brook was formerly used for industrial/commercial purposes. The Union Feed/Flour Mill was present along the west bank of the stream, downstream of the River Road Bridge, from at least 1884 to 1924. A coal yard and a gasoline filling station were also situated at this location between at least 1901 and 1990. The former Peterson Oil Company (and the Socony Vacuum Oil Company) had been situated to the north and west of Sumner Brook since at least 1940. The Middletown waste water treatment plant has been present to the north of Sumner Brook since at least 1975.

Based on the information obtained during a TRC site visit and a historical review, several potential source areas that may contribute contaminants to Sumner Brook were identified. The potential conditions identified for the site are listed below in Table 1. Photographs of these potential source areas and the general conditions associated with Sumner Brook are presented in Appendix A.

Table 1
Potential Source Areas of Contamination to Sumner Brook

Number	Potential Source Area	Location	Contaminants of Concern
1	Petroleum, metals, and solvents associated with the historic dumping on and adjacent to the property.	Surface water and sediment adjacent to stream bank.	SVOCs, RCRA metals, PCBs
2	Petroleum and metals associated with the adjacent former Peterson Oil facility.	Surface water and sediment adjacent to stream bank.	SVOCs, RCRA metals, PCBs

3.0 Sampling Design

There have not been any previous environmental contaminant investigations conducted on Sumner Brook. Therefore, sampling of surface water and sediment within Sumner Brook is warranted to determine the extent of former releases of hazardous materials to the stream from the existing and historic industrial/commercial uses in the stream vicinity.

A Quality Assurance Project Plan (QAPjP) Addendum was prepared earlier (TRC, 2001) as part of the City of Middletown's Grant Agreement with EPA. The QAPjP documented the sampling and monitoring activities to be implemented during the Brownfields Program and described the quality assurance/quality control (QA/QC) procedures to be employed to ensure the integrity, validity, and usability of the analytical results to be provided in support of this project. The Plan also defines sampling strategies, methods, and locations, analytical methods, data handling and tracking procedures, and specific QC procedures and QA mechanisms that will be utilized.

The following activities were conducted as part of this ecological impact study: 1) surface water and sediment samples were collected from locations within Sumner Brook in order to assess the nature and extent of contamination that may have been introduced into the stream, and 2) the features associated with each sampling location were characterized to evaluate its suitability in providing habitat for aquatic ecological receptors (e.g., fish, benthic invertebrates).

Surface water and/or sediment samples were obtained from a total of eight locations within Sumner Brook on August 24, 2001. The approximate locations of these sampling sites are depicted in Figure 2. Six of the sampling locations were selected to evaluate possible impact from existing or historic industrial/commercial uses located in close proximity to Sumner Brook (see Section 2.0). Two additional sampling locations were collected upgradient of these potential source areas to ascertain "background" concentrations of these contaminants that may be attributable to upgradient sources.

Surface water samples were sampled directly into sample containers while sediment samples were collected via a hand auger, homongenized in a stainless steel bowl and then placed into a

sample container. Samples were collected from downstream to upstream locations to prevent impact from sediment disturbance. The surface water and stream sediment samples were analyzed at Katahdin Analytical Services, Inc. laboratory for the following chemical parameters: semi-volatile organic compounds (SVOCs), RCRA metals and/or polychlorinated biphenyls (PCBs). Standard biological parameters were also tested as specified in the QAPjP.

As indicated on the Site Map (Figure 2), stream sediment samples were collected from Sumner Brook as follows:

Location 1:	West side of brook near concrete piers, adjacent to Harbor Park and former filling station/coal yard.
Location 2:	West side of brook adjacent to drain discharge and former feed/flour mill (directly downstream of River Road bridge).
Location 3:	East side of brook adjacent to Weston Construction Co.
Location 4:	South side of brook adjacent to concrete piers and 55-gallon drum (directly upstream of River Road bridge).
Location 5:	North side of brook adjacent to 2 wooden poles, and across street from former Peterson Oil Co. facility.
Location 6:	Immediately downstream of railroad bridge along north bank.
Location 7:	Upstream of railroad bridge along north bank.
Location 8:	Downstream of Route 9 ramp culvert on south side of brook.

The sediment samples were analyzed for SVOCs, RCRA metals and PCBs.

Surface water samples were collected at sediment sampling locations 1, 2, 5, and 7 proceeding from downstream to upstream. These samples were analyzed for RCRA metals (total and dissolved) and standard biological parameters. One duplicate surface water sample (SW-9) was also analyzed.

All sediment and surface water samples, including the blind duplicates for both Sumner Brook sediment and surface water samples and a rinsate blank, were placed on ice, kept cool (approximately 4 degrees Centigrade) and delivered to a Connecticut state-certified laboratory (Katahdin Analytical Services, Inc.), following proper chain-of-custody procedures. Laboratory data was validated and the useability determined in accordance with the procedures described in the EPA-approved QAPjP.

4.0 Habitat Characteristics of Sampling Locations

A TRC ecologist conducted a site reconnaissance of the sampling locations to identify existing habitat characteristics associated with each of the sample locations within Sumner Brook. An assessment of the relative condition of Sumner Brook to provide suitable aquatic habitat was conducted at each sampling location. The assessment methodology was qualitative and generally followed the Stream Visual Assessment Protocol (NRCS, 1999). This method provides a basic level of stream health based primarily on physical conditions within the study area. The features evaluated include: 1) channel condition; 2) hydrological alteration; 3) riparian zone; 4) bank stability; 5) water appearance; 6) nutrient enrichment; 7) barriers to fish movement; 8) instream fish cover; 9) pools; 10) invertebrate habitat; and 11) canopy cover. Due to similarities between portions of Sumner Brook, sample locations 1 through 3, locations 4 through 6, and locations 7 and 8 were placed into three separate sub-reaches of the Sumner Brook study area.

In general, all three sub-reaches of Sumner Brook are characterized by steep banks adjacent to the stream which promote high flood velocities and preclude the presence of adjacent streamside vegetation. The lower portion of Sumner Brook (sample locations 1 through 3) contains a substrate comprised primarily of boulders and sand. The middle portion of the stream (sample locations 4 through 6) contains a predominately gravel and sand substrate while the upper portion of the Sumner Brook study area (sample locations 7 and 8) has a substrate comprised primarily of sand and silt). The channel width throughout most of the study area is approximately 25 feet. All three sub-reaches of Sumner Brook within the study area scored an overall rating of Poor. The results of the qualitative assessment are presented in Appendix B.

5.0 Risk Characterization

The primary ecological exposure pathway at the site would be the potential for contaminated surface water and sediments to adversely affect ecological receptors (i.e., fish and benthic invertebrates) present within Sumner Brook. A total of four surface water samples and eight sediment samples were collected in aquatic habitats present in Sumner Brook. The results of the sampling analyses are presented in Appendix C. In order to evaluate the potential affects of surface water and sediment contaminant concentrations on potential ecological receptors, a screening-level assessment of the contaminants detected within the surface water and sediment was conducted by TRC. A screening assessment compares measured contaminant concentrations within media of concern to medium-specific effects-based screening benchmark values.

Surface Water

Ambient water quality criteria (AWQC) established by EPA (1999) were used as benchmarks for evaluating constituents detected in Sumner Brook surface water samples. These criteria are generally protective of the most sensitive receptors that may be exposed on an infrequent basis (acute criteria) or on a more frequent basis (chronic criteria). AWQC for most inorganic constituents are based on the dissolved concentration of the constituent which best represents the bioavailable portion.

The only constituents detected in surface water samples collected from Sumner Brook were barium, chromium (estimated values only), lead, mercury (estimated value only), and silver (estimated value only). Table 2 presents detected concentrations (total and dissolved) for each sample location and their respective surface water benchmark values. Detected concentrations of chromium, mercury and silver were all detected below their respective benchmarks. No benchmark is available for barium, however, the highest concentration was detected in the furthest upstream sample location indicating an upgradient source. The dissolved concentration of lead (estimated value of 4.7 ug/L) at the furthest downstream sample location (SW-1) was slightly elevated above its chronic benchmark but well below its acute benchmark. This exceedence may indicate that aquatic organisms in this area of Sumner Brook that are frequently

TABLE 2. SURFACE WATER CONCENTRATIONS OF RCRA METALS, SUMNER BROOK, MIDDLETOWN, CT.

RCRA Metals (ug/L)	AWQC Chronic (a)	AWQC Acute (a)	Total Concentrations				Dissolved Concentrations			
			SW-1	SW-2	SW-5	SW-7	SW-1	SW-2	SW-5	SW-7
Arsenic	150	340	ND	ND	ND	ND	ND	ND	ND	ND
Barium	-	-	30.6	38.4	56.2	61.3	36.4	30.9	51.2	59.3
Cadmium	2.2	4.3	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	74	570	0.93B	1.4B	1.1B	ND	1.0B	ND	ND	ND
Lead	2.5	65	ND	7.2	ND	ND	**4.7B**	ND	ND	ND
Mercury	0.77	1.4	ND	ND	ND	ND	ND	ND	0.03B	ND
Selenium	5 (b)	-	ND	ND	ND	ND	ND	ND	ND	ND
Silver	-	3.4	ND	ND	ND	ND	1.3B	ND	ND	ND

ND - Not Detected
B - Estimated Value

Bold values exceed chronic AWQC.

(a) U.S. Environmental Protection Agency. 1999. National Recommended Water Quality Criteria - Correction. Unless indicated, AWQC values presented are for dissolved concentrations only.
(b) Applies to total concentration.

Note: AWQC values are presented based on water hardness of 100 mg/L for cadmium, chromium, lead and silver.

exposed to this concentration of lead may be adversely affected. Lead is a common contaminant in urban environments.

Sediment

Evaluation benchmarks for constituents detected in sediment samples are based on sediment quality guidelines established by the Ontario Ministry of the Environment (Persaud et al., 1992) regarding effects on benthic organisms. These guidelines were developed from a review of available data regarding contaminant concentrations and biological effects. These guidelines include a Lowest Effect Level (LEL) that is indicative of sediment concentrations where adverse effects are first noted and a Severe Effect Level (SEL) that indicates sediment concentrations are likely to impact the majority of benthic species. These sediment guidelines are similar to the sediment guidelines developed by the National Oceanic and Atmospheric Administration (Buchman, 1999). The NOAA sediment guidelines establish Threshold Effects Level (TEL) and Probable Effects Level (PEL) that are similar to the LEL and SEL values identified by the Ontario Ministry of the Environment (MOE).

Table 3 presents the comparison of detected sediment contaminant concentrations with their respective sediment quality benchmarks. In general, the detected concentrations of polycyclic aromatic hydrocarbons (PAHs) throughout Sumner Brook sediments exceed their respective LEL benchmarks but are below the SEL values. This indicates that benthic organisms inhabiting (or formerly inhabited) Sumner Brook that are sensitive to PAH contaminants may be adversely effected from the detected concentrations. PAHs are common contaminants associated with urbanized areas, particularly roadway runoff during storm events. The highest PAH concentrations were detected at SD-7 which is upgradient of the Study Area. Therefore, impacts to sensitive benthic organisms within Sumner Brook are likely to be attributable to upgradient PAH sources as well as from sources within the Study Area.

Detected concentrations of several PCB aroclors (PCB-1248, 1254, and 1260) were also detected above their respective LEL benchmarks but below their SEL values. However, the highest PCB concentrations were detected at SD-7 which is upgradient of the Study Area. In general, PCBs

TABLE 3. SEDIMENT CONCENTRATIONS OF CONTAMINANTS, SUMNER BROOK, MIDDLETOWN, CONNECTICUT.

	MOE LEL (b)	MOE SEL (b)	SEDIMENT SAMPLE LOCATION							
			SD-1	SD-2	SD-3	SD-4	SD-5	SD-6	SD-7	SD-8
PCBs (ug/kg)										
PCB-1016	7	530	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	-	-	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	-	-	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	-	-	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	30	1500	ND	ND	ND	ND	ND	ND	**120**	ND
PCB-1254	60	340	57	**69**	ND	ND	ND	ND	**180**	ND
PCB-1260	5	240	**25**	ND	ND	ND	ND	**100**	**83**	ND
SVOCs (a) (ug/kg)										
Acenaphthene	-	-	250J	ND	ND	ND	ND	330J	1900	ND
Acenaphthylene	-	-	ND	ND	ND	ND	ND	240J	480	ND
Anthracene	220	3700	**280J**	**260J**	ND	ND	ND	**500**	**1100**	ND
Benzo(a)anthracene	320	14800	**760**	**900**	ND	**930**	**500**	**1100**	**1800**	**340J**
Benzo(a)pyrene	370	14400	**810**	**900**	240J	**880**	**540**	**1000**	**1600**	330J
Benzo(b)fluoranthene	-	-	1000	1300	260J	1100	700	1300	2200	440J
Benzo(k)fluoranthene	240	13400	**350J**	**420**	ND	**310J**	220J	**450**	**700**	ND
Benzo(g,h,i)perylene	170	3200	**580**	**630**	ND	**520**	**360J**	**570**	**910**	ND
Bis(2-ethylhexyl)phthalate	890000(c)	-	350J	540	ND	ND	ND	ND	1400	ND
Chrysene	340	4600	**840**	**1000**	230J	**960**	**540**	**1100**	**2000**	**400J**
Fluoranthene	750	10200	**1400**	**1800**	310J	**1200**	**850**	**2100**	**4100**	720
Fluorene	190	1600	ND	ND	ND	ND	ND	**250J**	**1100**	ND
Indeno(1,2,3-cd)pyrene	200	3200	**560**	**690**	ND	**530**	**380J**	**780**	**1100**	ND
2-Methylnaphthalene	-	-	ND	ND	ND	ND	ND	ND	320J	ND
Phenanthrene	560	9500	**1000**	**1100**	ND	**630**	470	**1800**	**4200**	340J
Pyrene	490	8500	**1500**	**1600**	370J	**1500**	**1000**	**1900**	**4300**	**560**
Total PAHs	4000	100000	**9330**	**10600**	1410	**8560**	**5560**	**13420**	**27810**	3130

TABLE 3. SEDIMENT CONCENTRATIONS OF CONTAMINANTS, SUMNER BROOK, MIDDLETOWN, CONNECTICUT.

	MOE LEL (b)	MOE SEL (b)	SEDIMENT SAMPLE LOCATION							
			SD-1	SD-2	SD-3	SD-4	SD-5	SD-6	SD-7	SD-8
RCRA Metals (mg/kg)										
Arsenic	6	33	2.2	2	2.6	2	3.6	1	1.8	2
Barium	-	-	56.2	38.1	95.3	39	51.2	19.5	76.9	68.6
Cadmium	0.6	10	0.41B	0.41B	ND	0.11B	0.24B	0.12B	**1.0B**	0.09B
Chromium	26	110	13.6	9.7	21	12.4	11.1	**26.6**	15.2	18.6
Lead	31	250	**236**	**138**	21.2	**39.8**	**93.4**	25.8	**88.4**	23.4
Mercury	0.2	2	0.11	0.06	0.01B	0.02B	0.05	0.03B	0.05	0.02B
Selenium	-	-	ND	ND	ND	0.31B	ND	ND	ND	ND
Silver	0.7 (d)	1.8 (d)	**0.72B**	ND	0.43B	ND	**25.3**	0.16B	**1.6B**	ND
Total Solids			77%	81%	85%	80%	85%	80%	69%	65%

ND - Not Detected
NA - Not Analyzed
B - Estimated Value

Bold values exceed MOE LELs.
Bold and underlined values exceed MOE SELs.

(a) Only detected concentrations are reported for the SVOC analysis.
(b) Ontario Ministry of the Environment. 1992. Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario. SEL: Severe Effect Levels LEL: Lowest Effect Levels
(c) Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Sediment-Associated Biota: 1997 Revision. D.S. Jones, G.W. Suter II, and R.N. Hull.
(d) National Oceanic and Atmospheric Administration Threshold Effects Level (TEL) and Probable Effects Level (PEL) for marine sediments. 1999. NOAA Screening Quick Reference Tables. M.F. Buchman.

Note: MOE SEL and bis(2-ethylhexyl)phthalate sediment values are presented based on 1% TOC.

were detected at fairly low concentrations within Sumner Brook sediments although elevated levels of several PCB aroclors at discreet areas of the stream may adversely effect sensitive benthic macroinvertebrates.

Sediment concentrations of lead within five sediment samples collected from Sumner Brook exceed the LEL values established by MOE but are below their SEL values. Highest lead concentrations were at the downstream samples nearest the Connecticut River. Exceedences of the LEL sediment quality benchmark by detected lead concentrations indicate that sensitive benthic species may be adversely affected within portions of the stream. However, due to the poor aquatic habitat provided by Sumner Brook (see Section 4.0), the exceedences of the lead and LEL may not be significant. Detected concentrations of cadmium and chromium were each detected slightly above its respective LEL benchmark at one sample location only. These constituents are not expected to significantly affect ecological receptors within Sumner Brook.

The detected concentration of silver at sample location SD-5 (25.3 mg/kg) is significantly elevated above its SEL benchmark (1.8 mg/kg). This indicates that most benthic organisms at this location may be adversely affected and a depauperate macroinvertebrate community may inhabit this portion of Sumner Brook.

Overall, most of the sampling locations within the Sumner Brook Study Area contain elevated concentrations of contaminants (primarily PAHs and lead) that may result in adverse effects to sensitive benthic macroinvertebrates. However, due to the poor aquatic habitat provided by this portion of Sumner Brook (as detailed in Section 4.0 and Appendix B), the exceedences of the sediment LEL benchmarks may not be significant in view of the limitations on the aquatic community abundance and/or diversity placed by the physical habitat characteristics associated with Sumner Brook.

6.0 References

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TRC. 2001. Quality Assurance Project Plan. Addendum B. June

APPENDIX A

PHOTOGRAPHS OF SUMNER BROOK AND VICINITY

PHOTO 1
East side of brook upstream of railroad tracks. Note culvert to Route 9.

PHOTO 2
Garbage berm downstream of railroad bridge.

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PHOTO 3
Garbage running down bank to Sumner Brook.

PHOTO 4
Two wooden piers along east side of brook.

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PHOTO 5
Concrete piers and drum along west bank directly upstream of River Road bridge.

PHOTO 6
Construction debris along east bank at Weston Construction Co.

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PHOTO 7
Wooden posts and metal pipe along west bank adjacent to Harbor Park.

PHOTO 8
Concrete piers along west bank adjacent to Harbor Park.

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APPENDIX B

STREAM VISUAL ASSESSMENT RESULTS – SUMNER BROOK

Sample Locations 1, 2, + 3

Channel condition

Natural channel; no structures, dikes. No evidence of down-cutting or excessive lateral cutting.	Evidence of past channel alteration, but with significant recovery of channel and banks. Any dikes or levies are set back to provide access to an adequate flood plain.	Altered channel; <50% of the reach with riprap and/ or channelization. Excess aggradation; braided channel. Dikes or levees restrict flood plain width.	Channel is actively downcutting or widen-ing. >50% of the reach with riprap or channel-ization. Dikes or levees prevent access to the flood plain.
10	7	3	1

Hydrologic alteration

Flooding every 1.5 to 2 years. No dams, no water withdrawals, no dikes or other struc-tures limiting the stream's access to the flood plain. Channel is not incised.	Flooding occurs only once every 3 to 5 years; limited channel incision. or Withdrawals, although present, do not affect available habitat for biota.	Flooding occurs only once every 6 to 10 years; channel deeply incised. or Withdrawals significantly affect available low flow habitat for biota.	No flooding; channel deeply incised or struc-tures prevent access to flood plain or dam operations prevent flood flows. or Withdrawals have caused severe loss of low flow habitat. or Flooding occurs on a 1-year rain event or less.
10	7	3	1

Riparian zone

Natural vegetation extends at least two active channel widths on each side.	Natural vegetation extends one active channel width on each side. or If less than one width, covers entire flood plain.	Natural vegetation extends half of the active channel width on each side.	Natural vegetation extends a third of the active channel width on each side. or Filtering function moderately compro-mised.	Natural vegetation less than a third of the active channel width on each side. or Lack of regenera-tion. or Filtering function severely compro-mised.
10	8	5	3	1

Bank stability

Banks are stable; banks are low (at elevation of active flood plain); 33% or more of eroding surface area of banks in outside bends is protected by roots that extend to the base-flow elevation.	Moderately stable; banks are low (at elevation of active flood plain); less than 33% of eroding surface area of banks in outside bends is protected by roots that extend to the baseflow elevation.	Moderately unstable; banks may be low, but typically are high (flooding occurs 1 year out of 5 or less frequently); outside bends are actively eroding (overhanging vegetation at top of bank, some mature trees falling into steam annually, some slope failures apparent).	Unstable; banks may be low, but typically are high; some straight reaches and inside edges of bends are actively eroding as well as outside bends (overhanging vegetation at top of bare bank, numerous mature trees falling into stream annually, numerous slope failures apparent).
10	7	3	1

Water appearance

Very clear, or clear but tea-colored; objects visible at depth 3 to 6 ft (less if slightly colored); no oil sheen on surface; no noticeable film on submerged objects or rocks.	Occasionally cloudy, especially after storm event, but clears rapidly; objects visible at depth 1.5 to 3 ft; may have slightly green color; no oil sheen on water surface.	Considerable cloudiness most of the time; objects visible to depth 0.5 to 1.5 ft; slow sections may appear pea-green; bottom rocks or submerged objects covered with heavy green or olive-green film. or Moderate odor of ammonia or rotten eggs.	Very turbid or muddy appearance most of the time; objects visible to depth < 0.5 ft; slow moving water may be bright-green; other obvious water pollutants; floating algal mats, surface scum, sheen or heavy coat of foam on surface. or Strong odor of chemicals, oil, sewage, other pollutants.
10	7	3	1

Nutrient enrichment

Clear water along entire reach; diverse aquatic plant community includes low quantities of many species of macrophytes; little algal growth present.	Fairly clear or slightly greenish water along entire reach; moderate algal growth on stream substrates.	Greenish water along entire reach; overabundance of lush green macrophytes; abundant algal growth, especially during warmer months.	Pea green, gray, or brown water along entire reach; dense stands of macrophytes clog stream; severe algal blooms create thick algal mats in stream.
10	7	3	1

Barriers to fish movement

No barriers	Seasonal water withdrawals inhibit movement within the reach	Drop structures, culverts, dams, or diversions (< 1 foot drop) within the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within 3 miles of the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within the reach
10	8	5	3	1

Instream fish cover

>7 cover types available	6 to 7 cover types available	4 to 5 cover types available	2 to 3 cover types available	None to 1 cover type available
10	8	5	3	1

Cover types: Logs/large woody debris, deep pools, overhanging vegetation, boulders/cobble, riffles, undercut banks, thick root mats, dense macrophyte beds, isolated/backwater pools, other: _____.

Pools

Deep and shallow pools abundant; greater than 30% of the pool bottom is obscure due to depth, or the pools are at least 5 feet deep.	Pools present, but not abundant; from 10 to 30% of the pool bottom is obscure due to depth, or the pools are at least 3 feet deep.	Pools present, but shallow; from 5 to 10% of the pool bottom is obscure due to depth, or the pools are less than 3 feet deep.	Pools absent, or the entire bottom is discernible.
10	7	3	1

Insect/invertebrate habitat

At least 5 types of habitat available. Habitat is at a stage to allow full insect colonization (woody debris and logs not freshly fallen).	3 to 4 types of habitat. Some potential habitat exists, such as overhanging trees, which will provide habitat, but have not yet entered the stream.	1 to 2 types of habitat. The substrate is often disturbed, covered, or removed by high stream velocities and scour or by sediment deposition.	None to 1 type of habitat.
10	7	3	1

Cover types: Fine woody debris, submerged logs, leaf packs, undercut banks, cobble, boulders, coarse gravel, other: _____.

Canopy cover (if applicable)

Warmwater fishery

25 to 90% of water surface shaded; mixture of conditions.	> 90% shaded; full canopy; same shading condition throughout the reach.	(intentionally blank)	< 25% water surface shaded in reach.
10	7		1

Overall score (Total divided by number scored)			
55 / 11 = 5.0		<6.0	Poor
		6.1-7.4	Fair
		7.5-8.9	Good
		>9.0	Excellent

Sample Locations 4, 5, + 6

Channel condition

Natural channel; no structures, dikes. No evidence of down-cutting or excessive lateral cutting.	Evidence of past channel alteration, but with significant recovery of channel and banks. Any dikes or levies are set back to provide access to an adequate flood plain.	Altered channel; <50% of the reach with riprap and/ or channelization. Excess aggradation; braided channel. Dikes or levees restrict flood plain width.	Channel is actively downcutting or widen-ing. >50% of the reach with riprap or channel-ization. Dikes or levees prevent access to the flood plain.
10	7	3	1

Hydrologic alteration

Flooding every 1.5 to 2 years. No dams, no water withdrawals, no dikes or other struc-tures limiting the stream's access to the flood plain. Channel is not incised.	Flooding occurs only once every 3 to 5 years; limited channel incision. or Withdrawals, although present, do not affect available habitat for biota.	Flooding occurs only once every 6 to 10 years; channel deeply incised. or Withdrawals significantly affect available low flow habitat for biota.	No flooding; channel deeply incised or struc-tures prevent access to flood plain or dam operations prevent flood flows. or Withdrawals have caused severe loss of low flow habitat. or Flooding occurs on a 1-year rain event or less.
10	7	3	1

Riparian zone

Natural vegetation extends at least two active channel widths on each side.	Natural vegetation extends one active channel width on each side. or If less than one width, covers entire flood plain.	Natural vegetation extends half of the active channel width on each side.	Natural vegetation extends a third of the active channel width on each side. or Filtering function moderately compro-mised.	Natural vegetation less than a third of the active channel width on each side. or Lack of regenera-tion. or Filtering function severely compro-mised.
10	8	5	3	1

Bank stability

Banks are stable; banks are low (at elevation of active flood plain); 33% or more of eroding surface area of banks in outside bends is protected by roots that extend to the base-flow elevation.	Moderately stable; banks are low (at elevation of active flood plain); less than 33% of eroding surface area of banks in outside bends is protected by roots that extend to the baseflow elevation.	Moderately unstable; banks may be low, but typically are high (flooding occurs 1 year out of 5 or less frequently); outside bends are actively eroding (overhanging vegetation at top of bank, some mature trees falling into steam annually, some slope failures apparent).	Unstable; banks may be low, but typically are high; some straight reaches and inside edges of bends are actively eroding as well as outside bends (overhanging vegetation at top of bare bank, numerous mature trees falling into stream annually, numerous slope failures apparent).
10	7	3	1

Water appearance

Very clear, or clear but tea-colored; objects visible at depth 3 to 6 ft (less if slightly colored); no oil sheen on surface; no noticeable film on submerged objects or rocks.	Occasionally cloudy, especially after storm event, but clears rapidly; objects visible at depth 1.5 to 3 ft; may have slightly green color; no oil sheen on water surface.	Considerable cloudiness most of the time; objects visible to depth 0.5 to 1.5 ft; slow sections may appear pea-green; bottom rocks or submerged objects covered with heavy green or olive-green film. or Moderate odor of ammonia or rotten eggs.	Very turbid or muddy appearance most of the time; objects visible to depth < 0.5 ft; slow moving water may be bright-green; other obvious water pollutants; floating algal mats, surface scum, sheen or heavy coat of foam on surface. or Strong odor of chemicals, oil, sewage, other pollutants.
10	7	3	1

Nutrient enrichment

Clear water along entire reach; diverse aquatic plant community includes low quantities of many species of macrophytes; little algal growth present.	Fairly clear or slightly greenish water along entire reach; moderate algal growth on stream substrates.	Greenish water along entire reach; overabundance of lush green macrophytes; abundant algal growth, especially during warmer months.	Pea green, gray, or brown water along entire reach; dense stands of macrophytes clog stream; severe algal blooms create thick algal mats in stream.
10	7	3	1

Barriers to fish movement

No barriers	Seasonal water withdrawals inhibit movement within the reach	Drop structures, culverts, dams, or diversions (< 1 foot drop) within the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within 3 miles of the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within the reach
10	8	5	3	1

Instream fish cover

>7 cover types available	6 to 7 cover types available	4 to 5 cover types available	2 to 3 cover types available	None to 1 cover type available
10	8	5	3	1

Cover types: Logs/large woody debris, deep pools, overhanging vegetation, boulders/cobble, riffles, undercut banks, thick root mats, dense macrophyte beds, isolated/backwater pools, other: _____.

Pools

Deep and shallow pools abundant; greater than 30% of the pool bottom is obscure due to depth, or the pools are at least 5 feet deep.	Pools present, but not abundant; from 10 to 30% of the pool bottom is obscure due to depth, or the pools are at least 3 feet deep.	Pools present, but shallow; from 5 to 10% of the pool bottom is obscure due to depth, or the pools are less than 3 feet deep.	Pools absent, or the entire bottom is discernible.
10	7	3	1

Insect/invertebrate habitat

At least 5 types of habitat available. Habitat is at a stage to allow full insect colonization (woody debris and logs not freshly fallen).	3 to 4 types of habitat. Some potential habitat exists, such as overhanging trees, which will provide habitat, but have not yet entered the stream.	1 to 2 types of habitat. The substrate is often disturbed, covered, or removed by high stream velocities and scour or by sediment deposition.	None to 1 type of habitat.
10	7	3	1

Cover types: Fine woody debris, submerged logs, leaf packs, undercut banks, cobble, boulders, coarse gravel, other: _____.

Canopy cover (if applicable)

Warmwater fishery

25 to 90% of water surface shaded; mixture of conditions.	> 90% shaded; full canopy; same shading condition throughout the reach.	(intentionally blank)	< 25% water surface shaded in reach.
10	7		1

Overall score (Total divided by number scored)			
60/11 =	5.4	<6.0	Poor
		6.1-7.4	Fair
		7.5-8.9	Good
		>9.0	Excellent

Sample Locations 7 + 8

Channel condition

Natural channel; no structures, dikes. No evidence of down-cutting or excessive lateral cutting.	Evidence of past channel alteration, but with significant recovery of channel and banks. Any dikes or levies are set back to provide access to an adequate flood plain.	Altered channel; <50% of the reach with riprap and/ or channelization. Excess aggradation; braided channel. Dikes or levees restrict flood plain width.	Channel is actively downcutting or widen-ing. >50% of the reach with riprap or channel-ization. Dikes or levees prevent access to the flood plain.
10	7	3	1

Hydrologic alteration

Flooding every 1.5 to 2 years. No dams, no water withdrawals, no dikes or other struc-tures limiting the stream's access to the flood plain. Channel is not incised.	Flooding occurs only once every 3 to 5 years; limited channel incision. or Withdrawals, although present, do not affect available habitat for biota.	Flooding occurs only once every 6 to 10 years; channel deeply incised. or Withdrawals significantly affect available low flow habitat for biota.	No flooding; channel deeply incised or struc-tures prevent access to flood plain or dam operations prevent flood flows. or Withdrawals have caused severe loss of low flow habitat. or Flooding occurs on a 1-year rain event or less.
10	7	3	1

Riparian zone

Natural vegetation extends at least two active channel widths on each side.	Natural vegetation extends one active channel width on each side. or If less than one width, covers entire flood plain.	Natural vegetation extends half of the active channel width on each side.	Natural vegetation extends a third of the active channel width on each side. or Filtering function moderately compro-mised.	Natural vegetation less than a third of the active channel width on each side. or Lack of regenera-tion. or Filtering function severely compro-mised.
10	8	5	3	1

Bank stability

Banks are stable; banks are low (at elevation of active flood plain); 33% or more of eroding surface area of banks in outside bends is protected by roots that extend to the base-flow elevation.	Moderately stable; banks are low (at elevation of active flood plain); less than 33% of eroding surface area of banks in outside bends is protected by roots that extend to the baseflow elevation.	Moderately unstable; banks may be low, but typically are high (flooding occurs 1 year out of 5 or less frequently); outside bends are actively eroding (overhanging vegetation at top of bank, some mature trees falling into steam annually, some slope failures apparent).	Unstable; banks may be low, but typically are high; some straight reaches and inside edges of bends are actively eroding as well as outside bends (overhanging vegetation at top of bare bank, numerous mature trees falling into stream annually, numerous slope failures apparent).
10	7	3	1

Water appearance

Very clear, or clear but tea-colored; objects visible at depth 3 to 6 ft (less if slightly colored); no oil sheen on surface; no noticeable film on submerged objects or rocks.	Occasionally cloudy, especially after storm event, but clears rapidly; objects visible at depth 1.5 to 3 ft; may have slightly green color; no oil sheen on water surface.	Considerable cloudiness most of the time; objects visible to depth 0.5 to 1.5 ft; slow sections may appear pea-green; bottom rocks or submerged objects covered with heavy green or olive-green film. or Moderate odor of ammonia or rotten eggs.	Very turbid or muddy appearance most of the time; objects visible to depth < 0.5 ft; slow moving water may be bright-green; other obvious water pollutants; floating algal mats, surface scum, sheen or heavy coat of foam on surface. or Strong odor of chemicals, oil, sewage, other pollutants.
10	7	3	1

Nutrient enrichment

Clear water along entire reach; diverse aquatic plant community includes low quantities of many species of macrophytes; little algal growth present.	Fairly clear or slightly greenish water along entire reach; moderate algal growth on stream substrates.	Greenish water along entire reach; overabundance of lush green macrophytes; abundant algal growth, especially during warmer months.	Pea green, gray, or brown water along entire reach; dense stands of macrophytes clog stream; severe algal blooms create thick algal mats in stream.
10	7	3	1

Barriers to fish movement

No barriers	Seasonal water withdrawals inhibit movement within the reach	Drop structures, culverts, dams, or diversions (< 1 foot drop) within the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within 3 miles of the reach	Drop structures, culverts, dams, or diversions (> 1 foot drop) within the reach
10	8	5	3	1

Instream fish cover

>7 cover types available	6 to 7 cover types available	4 to 5 cover types available	2 to 3 cover types available	None to 1 cover type available
10	8	5	3	1

Cover types: Logs/large woody debris, deep pools, overhanging vegetation, boulders/cobble, riffles, undercut banks, thick root mats, dense macrophyte beds, isolated/backwater pools, other: _____.

Pools

Deep and shallow pools abundant; greater than 30% of the pool bottom is obscure due to depth, or the pools are at least 5 feet deep.	Pools present, but not abundant; from 10 to 30% of the pool bottom is obscure due to depth, or the pools are at least 3 feet deep.	Pools present, but shallow; from 5 to 10% of the pool bottom is obscure due to depth, or the pools are less than 3 feet deep.	Pools absent, or the entire bottom is discernible.
10	7	3	1

Insect/invertebrate habitat

At least 5 types of habitat available. Habitat is at a stage to allow full insect colonization (woody debris and logs not freshly fallen).	3 to 4 types of habitat. Some potential habitat exists, such as overhanging trees, which will provide habitat, but have not yet entered the stream.	1 to 2 types of habitat. The substrate is often disturbed, covered, or removed by high stream velocities and scour or by sediment deposition.	None to 1 type of habitat.
10	7	3	1

Cover types: Fine woody debris, submerged logs, leaf packs, undercut banks, cobble, boulders, coarse gravel, other: _____.

Canopy cover (if applicable)

Warmwater fishery

25 to 90% of water surface shaded; mixture of conditions.	> 90% shaded; full canopy; same shading condition throughout the reach.	(intentionally blank)	< 25% water surface shaded in reach.
10	7		1

Overall score (Total divided by number scored)			
60/11 =	5.4	<6.0	Poor
		6.1-7.4	Fair
		7.5-8.9	Good
		>9.0	Excellent

APPENDIX C

SURFACE WATER/SEDIMENT ANALYTICAL RESULTS

TRC ENVIRONMENTAL
MIDDLETOWN BROWNFIELDS
WR2958

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

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SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TRC ENVIRONMENTAL
CASE MIDDLETOWN BROWNFIELDS

Sample Receipt

The following samples were received on August 27, 2001 and were logged in under Katahdin Analytical Services work order number WR2958 for a hardcopy due date of September 24, 2001.

KATAHDIN Sample No.	TRC Sample Identification
WR2958-1	FB082401
WR2958-2	SW-1
WR2958-3	SW-2
WR2958-4	SW-5
WR2958-5	SW-7
WR2958-6	SW-9
WR2958-7	SW-1
WR2958-8	SW-2
WR2958-9	SW-5
WR2958-10	SW-7
WR2958-11	SW-9
WR2958-12	SD-1
WR2958-13	SD-2
WR2958-14	SD-3
WR2958-15	SD-4
WR2958-16	SD-5
WR2958-17	SD-6
WR2958-18	SD-7
WR2958-19	SD-8
WR2958-20	SD-9

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Semivolatile Organics Analysis

Nine soil/sediment samples were received by the Katahdin GC/MS laboratory on August 27, 2001 for analysis for the target compound list of analytes in accordance with USEPA method 8270B.

The samples were extracted following USEPA method 3550 on August 28, 2001. A laboratory control spike was extracted in the batch, along with a matrix spike/matrix spike duplicate pair on ample WR2958-12.

The initial calibration curve analyzed in this SDG had some of the target analyte %RSD values exceeding 15 %.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Section 7.3.7.1 of method 8270C (revision 3, 12/96) narrows this 20% maximum to 15%.

In the calibration curve analyzed for this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 8.0%, the curve was acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" by the data system. All manual integrations have been dated and initialed by the responsible analyst. Copies of each manual integration are included in the data package. All manual integrations have been reviewed and approved by the GC/MS supervisor.

No other protocol deviations were noted by the semivolatiles organics staff.

GC Analysis

Samples WR2958-12 through -20 were received on August 27, 2001 and were analyzed for polychlorinated biphenyls (PCBs) according to SW846 method 8082. Sample WR2958-12 was used for the matrix spike (MS) and the matrix spike duplicate (MSD). All samples and QC were analyzed within hold time, and all QC criteria were met with the following comments:

PCB Analysis

The laboratory control sample (LCP1794) had a recovery for Aroclor 1016, based on the reported highest value from channel A and B, which was high and outside the laboratory established acceptance limit. Since the recovery for the second spike compound Aroclor 1260 was acceptable, and the recovery for Aroclor 1016 was acceptable on channel A, the samples were not reanalyzed.

There were no other protocol deviations or observations noted by the GC laboratory staff.

Metals Analysis

The samples of Katahdin Work Order WR2958 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Soil-matrix Katahdin Sample Nos. WR2958- (15-20) were digested for ICP analysis on 08/31/01 (QC Batch RH31ICS0) in accordance with USEPA Method 3050B. Two laboratory control samples, identified as LCSSRH31ICS0 and LC2SRH31ICS0, were prepared in this batch.

Aqueous-matrix Katahdin Sample Nos. WR2958- (1-6) were digested for ICP analysis on 08/31/01 (QC Batch RH31ICW1) in accordance with USEPA Method 3010A. Katahdin Sample No. WR2958-2 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample Nos. WR2958- (7-11) were digested for ICP analysis on 09/05/01 (QC Batch RI05ICW0) in accordance with USEPA Method 3010A. Katahdin Sample No. WR2958-7 was prepared with duplicate matrix-spiked aliquots.

Soil-matrix Katahdin Sample Nos. WR2958- (12-14) were originally digested for ICP analysis on 08/30/01 (QC Batch RH30ICS0) in accordance with USEPA Method 3050B. The laboratory control samples that are associated with this batch were prepared incorrectly. For this reason, the digestates of QC Batch RH30ICS0 were discarded, and Katahdin Sample Nos. WR2958- (12-14) were redigested for ICP analysis on 09/06/01 (QC Batch RI06ICS0). Katahdin Sample No. WR2958-12 was prepared with duplicate matrix-spiked aliquots in this redigestion batch. Primary redigestates are identified throughout the raw data and on sample preparation and analysis run logs by the suffix "R" appended to the Katahdin sample number, e.g. "WR2958-012R". Upon analysis, it was apparent that the matrix-spiked aliquots of Katahdin Sample No. WR2958-12 had not been spiked. For this reason, the matrix-spiked aliquots of Katahdin Sample No. WR2958-12 were redigested for a second time on 09/12/01 (QC Batch RI12ICS0). Secondary redigestates are identified throughout the raw data and on sample preparation and analysis run logs by the suffix "X" appended to the Katahdin sample number, e.g. "WR2958-012XS".

ICP analyses of Katahdin Work Order WR2958 sample digestates were performed in accordance with USEPA Method 6010A, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA 61E ICP spectrometer. All samples were analyzed within holding times and all QC requirements were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Mercury Analysis by Cold Vapor Atomic Absorption (CVAA) Spectrophotometry

Aqueous-matrix Katahdin Sample Nos. WR2958- (1, 2) were digested for mercury analysis on 09/05/01 (QC Batch RI05HGW1) in accordance with USEPA Method 7470A. Katahdin Sample No. WR2958-2 was prepared with duplicate matrix-spiked aliquots. Two laboratory control samples, identified as LCSWRI05HGW1 and LC2WRI05HGW1, were prepared in this batch.

Soil-matrix Katahdin Sample Nos. WR2958- (12-20) were digested for mercury analysis on 09/06/01 (QC Batch RI06HGS0) in accordance with USEPA Method 7471A. Katahdin Sample No. WR2958-12 was prepared with duplicate matrix-spiked aliquots.

Aqueous-matrix Katahdin Sample Nos. WR2958- (3-11) were digested for mercury analysis on 09/08/01 (QC Batch RI08HGW2) in accordance with USEPA Method 7470A. Katahdin Sample No. WR2958-7 was prepared with duplicate matrix-spiked aliquots.

Mercury digestates were analyzed in accordance with USEPA Methods 7470A and 7471A using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all QC requirements were met.

Wet Chemistry

Analyses for Total Solids were performed according to "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods" SW846, 3rd edition, 1986, and updates I, II, IIA and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA.

All analyses were performed within analytical hold time. All quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager, General Manager, Quality Assurance Officer, or the Data Management Supervisor as verified by the following signature.

John C. Burton

John Burton
Laboratory Manager

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR2958

PAGE: 1 OF 1

COOLER: 1 OF 1

CLIENT: TRC

PROJECT:

COC#
SDG#
DATE / TIME RECEIVED: 8-27-01 0905
DELIVERED BY: FedEx
RECEIVED BY: SC
LIMS ENTRY BY: SC
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☐	☑	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☐	☐	☑
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS | RESOLUTION

TEMP BLANK TEMP (°C)= 16.8

COOLER TEMP (°C)= NA
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1): All ice was melted

called Sarah and said to cancel SVOCs / PCBs on FB 082401
b/c of Temp WMC 8.27.01

(1) Use ... pace (... dditio ... ets i ... ssary, ... cume... ...ples ... are received broken or compromised. C-O-C discrepancies, radiation ...

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) #: WR 2958

PAGE: 2 OF 2

COOLER: 2 OF 2

CLIENT: TRC

COC#:
SDG#:
DATE / TIME RECEIVED: 8-27-01 0930
DELIVERED BY: FedEx
RECEIVED BY: SA
LIMS ENTRY BY: SC
LIMS REVIEW BY / PM: AL

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	✓				
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	✓				
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	✓				
4. CHAIN OF CUSTODY MATCHES SAMPLES?	✓				
5. TEMPERATURE BLANKS PRESENT?	✓			TEMP BLANK TEMP (°C)= 3.2	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	✓			COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?			✓		
8. TRIP BLANK PRESENT IN THIS COOLER		✓			
9. PROPER SAMPLE CONTAINERS AND VOLUME?	✓				
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	✓				
11. SAMPLES PROPERLY PRESERVED[1]?		✓			
12. CORRECTIVE ACTION REPORT FILED?		✓	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP NFESC ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised. C-O-C discrepancies, radiation checks, residual chlorine check, results of all

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: TRC Environmental Corp.
Contact: Sarah Tranbetta
Phone #: (860) 298-6219
Fax #: (860) 298-63
Address: 5 Waterside Crossing
City: Windsor
State: CT
Zip Code: 06095
Purchase Order #:
Proj. Name / No.: Middletown Brownfields - Summer
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): Mike Lariviere
Copies To:

LAB USE ONLY
WORK ORDER #: WR2958
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☒ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Total RCRA 8 Metals (Filt. ☐Y ☑N)	Dissolved RCRA 8 Metals (Filt. ☑Y ☐N)	SVOCs (Filt. ☐Y ☑N)	PCBs (Filt. ☐Y ☑N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	FB082401 *	8/24/01/1015	Aq	3	✓		✓	✓					
*	SW-1 *	8/24/01/1030	Aq	4	✓	✓							
	SW-2 *	8/24/01/1130	Aq	2	✓	✓							
	SW-5 *	8/24/01/1245	Aq	2	✓	✓							
	SW-7 *	8/24/01/1330	Aq	2	✓	✓							
	SW-9 *	8/24/01/1430	Aq	2	✓	✓							
*	SD-1	8/24/01/1030	S	4	✓		✓	✓					
	SD-2	8/24/01/1130	S	2	✓		✓	✓					
	SD-3	8/24/01/1215	S	2	✓		✓	✓					
	SD-4	8/24/01/1230	S	2	✓		✓	✓					
	SD-5	8/24/01/1245	S	2	✓		✓	✓					
	SD-6	8/24/01/1310	S	2	✓		✓	✓					
	SD-7	8/24/01/1330	S	2	✓		✓	✓					
	SD-8	8/24/01/1345	S	2	✓		✓	✓					
	SD-9	8/24/01/1440	S	2	✓		✓	✓					

COMMENTS * Includes MS/MSD containers

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	8/24/01 / 1730	FED-EX		8-27-01 0920	[signature]
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (877) 782-3311
KAS-COC1 (R.0900)
THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.
ORIGINAL

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-2958

Project Manager: Andrea J. Colby
ORDER DATE: 08/27/01
PHONE: 860/289-8631
FAX: 860/298-6399
DUE: 24 SEP

REPORT TO: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

INVOICE: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

PHONE: 860/289-8631
PO: 08.27.01

PROJECT: MIDDLETOWN BROWNFIELDS

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 26 SEP

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WR2958-1	FB082401	24 AUG 1015	27 AUG	AQ
	WR2958-2	SW-1	24 AUG 1030		
	WR2958-3	SW-2	24 AUG 1130		
	WR2958-4	SW-5	24 AUG 1245		
	WR2958-5	SW-7	24 AUG 1330		
	WR2958-6	SW-9	24 AUG 1430		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
RCRA Metals, Total		6	80.00	480.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WR2958-7	SW-1	24 AUG 1030	27 AUG	AQ
	WR2958-8	SW-2	24 AUG 1130		
	WR2958-9	SW-5	24 AUG 1245		
	WR2958-10	SW-7	24 AUG 1330		
	WR2958-11	SW-9	24 AUG 1430		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
RCRA Metals, Dissolved		5	80.00	400.00

LABORATORY ORDER CONTINUED ON PAGE 2

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KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-2958

Project Manager: Andrea J. Coll
ORDER DATE: 08/27/0
PHONE: 860/289-8631
FAX: 860/298-639
DUE: 24 SE

REPORT TO: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

INVOICE: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

PHONE: 860/289-863
PO: 08.27.0

PROJECT: MIDDLETOWN BROWNFIELDS

SAMPLED BY: CLIENT DELIVERED BY: FEDEX DISPOSE: AFTER 26 SEP

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRI
3	WR2958-12	SD-1	24 AUG 1030	27 AUG	SL
	WR2958-13	SD-2	24 AUG 1130		
	WR2958-14	SD-3	24 AUG 1215		
	WR2958-15	SD-4	24 AUG 1230		
	WR2958-16	SD-5	24 AUG 1245		
	WR2958-17	SD-6	24 AUG 1310		
	WR2958-18	SD-7	24 AUG 1330		
	WR2958-19	SD-8	24 AUG 1345		
	WR2958-20	SD-9	24 AUG 1440		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Solids-Total Residue (TS)	CLP/CIP SO	9	0.00	0.00
RCRA Metals, Total		9	80.00	720.00
TCL Semivolatile Organics by USEPA 8270B	EPA 8270B	9	210.00	1890.00
PCBs only by USEPA 8082	SW8082	9	80.00	720.00
TOTALS		9	370.00	3330.00

ORDER NOTE: QC-IV
DD(WEST-XLS)
MIDDLETOWN BROWNFIELDS

INVOICE: With Report

TOTAL ORDER AMOUNT $4,210.00
This is NOT an Invoice

AJC/BKR/WEST.WMC(dw)/WMC
09-04Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any quest

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-12
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 77
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-1	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<430	ug/Kg	1.3	430	330
BIS(2-CHLOROETHYL)ETHER	<430	ug/Kg	1.3	430	330
2-CHLOROPHENOL	<430	ug/Kg	1.3	430	330
1,3-DICHLOROBENZENE	<430	ug/Kg	1.3	430	330
1,4-DICHLOROBENZENE	<430	ug/Kg	1.3	430	330
1,2-DICHLOROBENZENE	<430	ug/Kg	1.3	430	330
2-METHYLPHENOL	<430	ug/Kg	1.3	430	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<430	ug/Kg	1.3	430	330
4-METHYLPHENOL	<430	ug/Kg	1.3	430	330
N-NITROSO-DI-N-PROPYLAMINE	<430	ug/Kg	1.3	430	330
HEXACHLOROETHANE	<430	ug/Kg	1.3	430	330
NITROBENZENE	<430	ug/Kg	1.3	430	330
ISOPHORONE	<430	ug/Kg	1.3	430	330
2-NITROPHENOL	<430	ug/Kg	1.3	430	330
2,4-DIMETHYLPHENOL	<430	ug/Kg	1.3	430	330
BIS(2-CHLOROETHOXY)METHAN	<430	ug/Kg	1.3	430	330
2,4-DICHLOROPHENOL	<430	ug/Kg	1.3	430	330
1,2,4-TRICHLOROBENZENE	<430	ug/Kg	1.3	430	330
NAPHTHALENE	<430	ug/Kg	1.3	430	330
4-CHLOROANILINE	<430	ug/Kg	1.3	430	330
HEXACHLOROBUTADIENE	<430	ug/Kg	1.3	430	330
4-CHLORO-3-METHYLPHENOL	<430	ug/Kg	1.3	430	330
2-METHYLNAPHTHALENE	<430	ug/Kg	1.3	430	330
HEXACHLOROCYCLOPENTADIEN	<430	ug/Kg	1.3	430	330
2,4,6-TRICHLOROPHENOL	<430	ug/Kg	1.3	430	330
2,4,5-TRICHLOROPHENOL	<1100	ug/Kg	1.3	1100	820
2-CHLORONAPHTHALENE	<430	ug/Kg	1.3	430	330
2-NITROANILINE	<1100	ug/Kg	1.3	1100	820
DIMETHYL PHTHALATE	<430	ug/Kg	1.3	430	330
ACENAPHTHYLENE	<430	ug/Kg	1.3	430	330
2,6-DINITROTOLUENE	<430	ug/Kg	1.3	430	330
3-NITROANILINE	<1100	ug/Kg	1.3	1100	820
ACENAPHTHENE	J250	ug/Kg	1.3	430	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-12
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 77
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-1	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<1100	ug/Kg	1.3	1100	820
4-NITROPHENOL	<1100	ug/Kg	1.3	1100	820
DIBENZOFURAN	<430	ug/Kg	1.3	430	330
2,4-DINITROTOLUENE	<430	ug/Kg	1.3	430	330
DIETHYLPHTHALATE	<430	ug/Kg	1.3	430	330
4-CHLOROPHENYL-PHENYLETHE	<430	ug/Kg	1.3	430	330
FLUORENE	<430	ug/Kg	1.3	430	330
4-NITROANILINE	<1100	ug/Kg	1.3	1100	820
4,6-DINITRO-2-METHYLPHENOL	<1100	ug/Kg	1.3	1100	820
N-NITROSODIPHENYLAMINE	<430	ug/Kg	1.3	430	330
4-BROMOPHENYL-PHENYLETHER	<430	ug/Kg	1.3	430	330
HEXACHLOROBENZENE	<430	ug/Kg	1.3	430	330
PENTACHLOROPHENOL	<1100	ug/Kg	1.3	1100	820
PHENANTHRENE	1000	ug/Kg	1.3	430	330
ANTHRACENE	J280	ug/Kg	1.3	430	330
CARBAZOLE	<430	ug/Kg	1.3	430	330
DI-N-BUTYLPHTHALATE	<430	ug/Kg	1.3	430	330
FLUORANTHENE	1400	ug/Kg	1.3	430	330
PYRENE	1500	ug/Kg	1.3	430	330
BUTYLBENZYLPHTHALATE	<430	ug/Kg	1.3	430	330
3,3'-DICHLOROBENZIDINE	<430	ug/Kg	1.3	430	330
BENZO[A]ANTHRACENE	760	ug/Kg	1.3	430	330
CHRYSENE	840	ug/Kg	1.3	430	330
BIS(2-ETHYLHEXYL)PHTHALATE	J350	ug/Kg	1.3	430	330
DI-N-OCTYLPHTHALATE	<430	ug/Kg	1.3	430	330
BENZO[B]FLUORANTHENE	1000	ug/Kg	1.3	430	330
BENZO[K]FLUORANTHENE	J350	ug/Kg	1.3	430	330
BENZO[A]PYRENE	810	ug/Kg	1.3	430	330
INDENO[1,2,3-CD]PYRENE	560	ug/Kg	1.3	430	330
DIBENZ[A,H]ANTHRACENE	<430	ug/Kg	1.3	430	330
BENZO[G,H,I]PERYLENE	580	ug/Kg	1.3	430	330
2-FLUOROPHENOL	70	%	1.3		
PHENOL-D6	72	%	1.3		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-12
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 77
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-1	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	55	%	1.3		
2-FLUOROBIPHENYL	65	%	1.3		
2,4,6-TRIBROMOPHENOL	59	%	1.3		
TERPHENYL-D14	73	%	1.3		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-13
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 81
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-2	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHOXY)METHAN	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	<400	ug/Kg	1.2	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-13
SDG: WR2958
Report Date: 9/20/01
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 81
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-2	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	<400	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
- PHENANTHRENE	1100	ug/Kg	1.2	400	330
- ANTHRACENE	J260	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
- FLUORANTHENE	1800	ug/Kg	1.2	400	330
- PYRENE	1600	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
- BENZO[A]ANTHRACENE	900	ug/Kg	1.2	400	330
- CHRYSENE	1000	ug/Kg	1.2	400	330
- BIS(2-ETHYLHEXYL)PHTHALATE	540	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
- BENZO[B]FLUORANTHENE	1300	ug/Kg	1.2	400	330
- BENZO[K]FLUORANTHENE	420	ug/Kg	1.2	400	330
- BENZO[A]PYRENE	900	ug/Kg	1.2	400	330
- INDENO[1,2,3-CD]PYRENE	690	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
- BENZO[G,H,I]PERYLENE	630	ug/Kg	1.2	400	330
2-FLUOROPHENOL	56	%	1.2		
PHENOL-D6	59	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-13
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 81
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-2	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	52	%	1.2		
2-FLUOROBIPHENYL	62	%	1.2		
2,4,6-TRIBROMOPHENOL	70	%	1.2		
TERPHENYL-D14	69	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-14
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-3	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHOXY)METHAN	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	<400	ug/Kg	1.2	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-14
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-3	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	<400	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
PHENANTHRENE	<400	ug/Kg	1.2	400	330
ANTHRACENE	<400	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
FLUORANTHENE	J310	ug/Kg	1.2	400	330
PYRENE	J370	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
BENZO[A]ANTHRACENE	<400	ug/Kg	1.2	400	330
CHRYSENE	J230	ug/Kg	1.2	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
BENZO[B]FLUORANTHENE	J260	ug/Kg	1.2	400	330
BENZO[K]FLUORANTHENE	<400	ug/Kg	1.2	400	330
BENZO[A]PYRENE	J240	ug/Kg	1.2	400	330
INDENO[1,2,3-CD]PYRENE	<400	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
BENZO[G,H,I]PERYLENE	<400	ug/Kg	1.2	400	330
2-FLUOROPHENOL	60	%	1.2		
PHENOL-D6	65	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-14
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-3	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	49	%	1.2		
2-FLUOROBIPHENYL	58	%	1.2		
2,4,6-TRIBROMOPHENOL	82	%	1.2		
TERPHENYL-D14	83	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-15
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-4	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHOXY)METHAN	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	<400	ug/Kg	1.2	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-15
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-4	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	<400	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
PHENANTHRENE	630	ug/Kg	1.2	400	330
ANTHRACENE	<400	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
FLUORANTHENE	1200	ug/Kg	1.2	400	330
PYRENE	1500	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
BENZO[A]ANTHRACENE	930	ug/Kg	1.2	400	330
CHRYSENE	960	ug/Kg	1.2	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
BENZO[B]FLUORANTHENE	1100	ug/Kg	1.2	400	330
BENZO[K]FLUORANTHENE	J310	ug/Kg	1.2	400	330
BENZO[A]PYRENE	880	ug/Kg	1.2	400	330
INDENO[1,2,3-CD]PYRENE	530	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
BENZO[G,H,I]PERYLENE	520	ug/Kg	1.2	400	330
2-FLUOROPHENOL	65	%	1.2		
PHENOL-D6	71	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-15
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-4	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	57	%	1.2		
2-FLUOROBIPHENYL	67	%	1.2		
2,4,6-TRIBROMOPHENOL	68	%	1.2		
TERPHENYL-D14	69	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-16
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-5	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHOXY)METHAN	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	<400	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	<400	ug/Kg	1.2	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-16
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-5	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	<400	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
PHENANTHRENE	470	ug/Kg	1.2	400	330
ANTHRACENE	<400	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
FLUORANTHENE	850	ug/Kg	1.2	400	330
PYRENE	1000	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
BENZO[A]ANTHRACENE	500	ug/Kg	1.2	400	330
CHRYSENE	540	ug/Kg	1.2	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
BENZO[B]FLUORANTHENE	700	ug/Kg	1.2	400	330
BENZO[K]FLUORANTHENE	J220	ug/Kg	1.2	400	330
BENZO[A]PYRENE	540	ug/Kg	1.2	400	330
INDENO[1,2,3-CD]PYRENE	J380	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
BENZO[G,H,I]PERYLENE	J360	ug/Kg	1.2	400	330
2-FLUOROPHENOL	55	%	1.2		
PHENOL-D6	59	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-16
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 85
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-5	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	43	%	1.2		
2-FLUOROBIPHENYL	55	%	1.2		
2,4,6-TRIBROMOPHENOL	69	%	1.2		
TERPHENYL-D14	87	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-17
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-6	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHYL)ETHER	<400	ug/Kg	1.2	400	330
2-CHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,3-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,4-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
1,2-DICHLOROBENZENE	<400	ug/Kg	1.2	400	330
2-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<400	ug/Kg	1.2	400	330
4-METHYLPHENOL	<400	ug/Kg	1.2	400	330
N-NITROSO-DI-N-PROPYLAMINE	<400	ug/Kg	1.2	400	330
HEXACHLOROETHANE	<400	ug/Kg	1.2	400	330
NITROBENZENE	<400	ug/Kg	1.2	400	330
ISOPHORONE	<400	ug/Kg	1.2	400	330
2-NITROPHENOL	<400	ug/Kg	1.2	400	330
2,4-DIMETHYLPHENOL	<400	ug/Kg	1.2	400	330
BIS(2-CHLOROETHOXY)METHAN	<400	ug/Kg	1.2	400	330
2,4-DICHLOROPHENOL	<400	ug/Kg	1.2	400	330
1,2,4-TRICHLOROBENZENE	<400	ug/Kg	1.2	400	330
NAPHTHALENE	<400	ug/Kg	1.2	400	330
4-CHLOROANILINE	<400	ug/Kg	1.2	400	330
HEXACHLOROBUTADIENE	<400	ug/Kg	1.2	400	330
4-CHLORO-3-METHYLPHENOL	<400	ug/Kg	1.2	400	330
2-METHYLNAPHTHALENE	<400	ug/Kg	1.2	400	330
HEXACHLOROCYCLOPENTADIEN	<400	ug/Kg	1.2	400	330
2,4,6-TRICHLOROPHENOL	<400	ug/Kg	1.2	400	330
2,4,5-TRICHLOROPHENOL	<980	ug/Kg	1.2	980	820
2-CHLORONAPHTHALENE	<400	ug/Kg	1.2	400	330
2-NITROANILINE	<980	ug/Kg	1.2	980	820
DIMETHYL PHTHALATE	<400	ug/Kg	1.2	400	330
ACENAPHTHYLENE	J240	ug/Kg	1.2	400	330
2,6-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
3-NITROANILINE	<980	ug/Kg	1.2	980	820
ACENAPHTHENE	J330	ug/Kg	1.2	400	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-17
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-6	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<980	ug/Kg	1.2	980	820
4-NITROPHENOL	<980	ug/Kg	1.2	980	820
DIBENZOFURAN	<400	ug/Kg	1.2	400	330
2,4-DINITROTOLUENE	<400	ug/Kg	1.2	400	330
DIETHYLPHTHALATE	<400	ug/Kg	1.2	400	330
4-CHLOROPHENYL-PHENYLETHE	<400	ug/Kg	1.2	400	330
FLUORENE	J250	ug/Kg	1.2	400	330
4-NITROANILINE	<980	ug/Kg	1.2	980	820
4,6-DINITRO-2-METHYLPHENOL	<980	ug/Kg	1.2	980	820
N-NITROSODIPHENYLAMINE	<400	ug/Kg	1.2	400	330
4-BROMOPHENYL-PHENYLETHER	<400	ug/Kg	1.2	400	330
HEXACHLOROBENZENE	<400	ug/Kg	1.2	400	330
PENTACHLOROPHENOL	<980	ug/Kg	1.2	980	820
PHENANTHRENE	1800	ug/Kg	1.2	400	330
ANTHRACENE	500	ug/Kg	1.2	400	330
CARBAZOLE	<400	ug/Kg	1.2	400	330
DI-N-BUTYLPHTHALATE	<400	ug/Kg	1.2	400	330
FLUORANTHENE	2100	ug/Kg	1.2	400	330
PYRENE	1900	ug/Kg	1.2	400	330
BUTYLBENZYLPHTHALATE	<400	ug/Kg	1.2	400	330
3,3'-DICHLOROBENZIDINE	<400	ug/Kg	1.2	400	330
BENZO[A]ANTHRACENE	1100	ug/Kg	1.2	400	330
CHRYSENE	1100	ug/Kg	1.2	400	330
BIS(2-ETHYLHEXYL)PHTHALATE	<400	ug/Kg	1.2	400	330
DI-N-OCTYLPHTHALATE	<400	ug/Kg	1.2	400	330
BENZO[B]FLUORANTHENE	1300	ug/Kg	1.2	400	330
BENZO[K]FLUORANTHENE	450	ug/Kg	1.2	400	330
BENZO[A]PYRENE	1000	ug/Kg	1.2	400	330
INDENO[1,2,3-CD]PYRENE	780	ug/Kg	1.2	400	330
DIBENZ[A,H]ANTHRACENE	<400	ug/Kg	1.2	400	330
BENZO[G,H,I]PERYLENE	570	ug/Kg	1.2	400	330
2-FLUOROPHENOL	89	%	1.2		
PHENOL-D6	94	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-17
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 80
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-6	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	59	%	1.2		
2-FLUOROBIPHENYL	67	%	1.2		
2,4,6-TRIBROMOPHENOL	70	%	1.2		
TERPHENYL-D14	67	%	1.2		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-18
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 69
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-7	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<460	ug/Kg	1.4	460	330
BIS(2-CHLOROETHYL)ETHER	<460	ug/Kg	1.4	460	330
2-CHLOROPHENOL	<460	ug/Kg	1.4	460	330
1,3-DICHLOROBENZENE	<460	ug/Kg	1.4	460	330
1,4-DICHLOROBENZENE	<460	ug/Kg	1.4	460	330
1,2-DICHLOROBENZENE	<460	ug/Kg	1.4	460	330
2-METHYLPHENOL	<460	ug/Kg	1.4	460	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<460	ug/Kg	1.4	460	330
4-METHYLPHENOL	<460	ug/Kg	1.4	460	330
N-NITROSO-DI-N-PROPYLAMINE	<460	ug/Kg	1.4	460	330
HEXACHLOROETHANE	<460	ug/Kg	1.4	460	330
NITROBENZENE	<460	ug/Kg	1.4	460	330
ISOPHORONE	<460	ug/Kg	1.4	460	330
2-NITROPHENOL	<460	ug/Kg	1.4	460	330
2,4-DIMETHYLPHENOL	<460	ug/Kg	1.4	460	330
BIS(2-CHLOROETHOXY)METHAN	<460	ug/Kg	1.4	460	330
2,4-DICHLOROPHENOL	<460	ug/Kg	1.4	460	330
1,2,4-TRICHLOROBENZENE	<460	ug/Kg	1.4	460	330
NAPHTHALENE	<460	ug/Kg	1.4	460	330
4-CHLOROANILINE	<460	ug/Kg	1.4	460	330
HEXACHLOROBUTADIENE	<460	ug/Kg	1.4	460	330
4-CHLORO-3-METHYLPHENOL	<460	ug/Kg	1.4	460	330
2-METHYLNAPHTHALENE	J320	ug/Kg	1.4	460	330
HEXACHLOROCYCLOPENTADIEN	<460	ug/Kg	1.4	460	330
2,4,6-TRICHLOROPHENOL	<460	ug/Kg	1.4	460	330
2,4,5-TRICHLOROPHENOL	<1100	ug/Kg	1.4	1100	820
2-CHLORONAPHTHALENE	<460	ug/Kg	1.4	460	330
2-NITROANILINE	<1100	ug/Kg	1.4	1100	820
DIMETHYL PHTHALATE	<460	ug/Kg	1.4	460	330
ACENAPHTHYLENE	480	ug/Kg	1.4	460	330
2,6-DINITROTOLUENE	<460	ug/Kg	1.4	460	330
3-NITROANILINE	<1100	ug/Kg	1.4	1100	820
ACENAPHTHENE	1900	ug/Kg	1.4	460	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-18
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 69
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-7	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<1100	ug/Kg	1.4	1100	820
4-NITROPHENOL	<1100	ug/Kg	1.4	1100	820
DIBENZOFURAN	<460	ug/Kg	1.4	460	330
2,4-DINITROTOLUENE	<460	ug/Kg	1.4	460	330
DIETHYLPHTHALATE	<460	ug/Kg	1.4	460	330
4-CHLOROPHENYL-PHENYLETHE	<460	ug/Kg	1.4	460	330
FLUORENE	1100	ug/Kg	1.4	460	330
4-NITROANILINE	<1100	ug/Kg	1.4	1100	820
4,6-DINITRO-2-METHYLPHENOL	<1100	ug/Kg	1.4	1100	820
N-NITROSODIPHENYLAMINE	<460	ug/Kg	1.4	460	330
4-BROMOPHENYL-PHENYLETHER	<460	ug/Kg	1.4	460	330
HEXACHLOROBENZENE	<460	ug/Kg	1.4	460	330
PENTACHLOROPHENOL	<1100	ug/Kg	1.4	1100	820
PHENANTHRENE	4200	ug/Kg	1.4	460	330
ANTHRACENE	1100	ug/Kg	1.4	460	330
CARBAZOLE	<460	ug/Kg	1.4	460	330
DI-N-BUTYLPHTHALATE	<460	ug/Kg	1.4	460	330
FLUORANTHENE	4100	ug/Kg	1.4	460	330
PYRENE	4300	ug/Kg	1.4	460	330
BUTYLBENZYLPHTHALATE	<460	ug/Kg	1.4	460	330
3,3'-DICHLOROBENZIDINE	<460	ug/Kg	1.4	460	330
BENZO[A]ANTHRACENE	1800	ug/Kg	1.4	460	330
CHRYSENE	2000	ug/Kg	1.4	460	330
BIS(2-ETHYLHEXYL)PHTHALATE	1400	ug/Kg	1.4	460	330
DI-N-OCTYLPHTHALATE	<460	ug/Kg	1.4	460	330
BENZO[B]FLUORANTHENE	2200	ug/Kg	1.4	460	330
BENZO[K]FLUORANTHENE	700	ug/Kg	1.4	460	330
BENZO[A]PYRENE	1600	ug/Kg	1.4	460	330
INDENO[1,2,3-CD]PYRENE	1100	ug/Kg	1.4	460	330
DIBENZ[A,H]ANTHRACENE	<460	ug/Kg	1.4	460	330
BENZO[G,H,I]PERYLENE	910	ug/Kg	1.4	460	330
2-FLUOROPHENOL	63	%	1.4		
PHENOL-D6	66	%	1.4		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-18
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 69
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-7	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	59	%	1.4		
2-FLUOROBIPHENYL	63	%	1.4		
2,4,6-TRIBROMOPHENOL	72	%	1.4		
TERPHENYL-D14	78	%	1.4		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-19
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 65
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-8	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<500	ug/Kg	1.5	500	330
BIS(2-CHLOROETHYL)ETHER	<500	ug/Kg	1.5	500	330
2-CHLOROPHENOL	<500	ug/Kg	1.5	500	330
1,3-DICHLOROBENZENE	<500	ug/Kg	1.5	500	330
1,4-DICHLOROBENZENE	<500	ug/Kg	1.5	500	330
1,2-DICHLOROBENZENE	<500	ug/Kg	1.5	500	330
2-METHYLPHENOL	<500	ug/Kg	1.5	500	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<500	ug/Kg	1.5	500	330
4-METHYLPHENOL	<500	ug/Kg	1.5	500	330
N-NITROSO-DI-N-PROPYLAMINE	<500	ug/Kg	1.5	500	330
HEXACHLOROETHANE	<500	ug/Kg	1.5	500	330
NITROBENZENE	<500	ug/Kg	1.5	500	330
ISOPHORONE	<500	ug/Kg	1.5	500	330
2-NITROPHENOL	<500	ug/Kg	1.5	500	330
2,4-DIMETHYLPHENOL	<500	ug/Kg	1.5	500	330
BIS(2-CHLOROETHOXY)METHAN	<500	ug/Kg	1.5	500	330
2,4-DICHLOROPHENOL	<500	ug/Kg	1.5	500	330
1,2,4-TRICHLOROBENZENE	<500	ug/Kg	1.5	500	330
NAPHTHALENE	<500	ug/Kg	1.5	500	330
4-CHLOROANILINE	<500	ug/Kg	1.5	500	330
HEXACHLOROBUTADIENE	<500	ug/Kg	1.5	500	330
4-CHLORO-3-METHYLPHENOL	<500	ug/Kg	1.5	500	330
2-METHYLNAPHTHALENE	<500	ug/Kg	1.5	500	330
HEXACHLOROCYCLOPENTADIEN	<500	ug/Kg	1.5	500	330
2,4,6-TRICHLOROPHENOL	<500	ug/Kg	1.5	500	330
2,4,5-TRICHLOROPHENOL	<1200	ug/Kg	1.5	1200	820
2-CHLORONAPHTHALENE	<500	ug/Kg	1.5	500	330
2-NITROANILINE	<1200	ug/Kg	1.5	1200	820
DIMETHYL PHTHALATE	<500	ug/Kg	1.5	500	330
ACENAPHTHYLENE	<500	ug/Kg	1.5	500	330
2,6-DINITROTOLUENE	<500	ug/Kg	1.5	500	330
3-NITROANILINE	<1200	ug/Kg	1.5	1200	820
ACENAPHTHENE	<500	ug/Kg	1.5	500	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-19
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 65
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-8	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<1200	ug/Kg	1.5	1200	820
4-NITROPHENOL	<1200	ug/Kg	1.5	1200	820
DIBENZOFURAN	<500	ug/Kg	1.5	500	330
2,4-DINITROTOLUENE	<500	ug/Kg	1.5	500	330
DIETHYLPHTHALATE	<500	ug/Kg	1.5	500	330
4-CHLOROPHENYL-PHENYLETHE	<500	ug/Kg	1.5	500	330
FLUORENE	<500	ug/Kg	1.5	500	330
4-NITROANILINE	<1200	ug/Kg	1.5	1200	820
4,6-DINITRO-2-METHYLPHENOL	<1200	ug/Kg	1.5	1200	820
N-NITROSODIPHENYLAMINE	<500	ug/Kg	1.5	500	330
4-BROMOPHENYL-PHENYLETHER	<500	ug/Kg	1.5	500	330
HEXACHLOROBENZENE	<500	ug/Kg	1.5	500	330
PENTACHLOROPHENOL	<1200	ug/Kg	1.5	1200	820
PHENANTHRENE	J340	ug/Kg	1.5	500	330
ANTHRACENE	<500	ug/Kg	1.5	500	330
CARBAZOLE	<500	ug/Kg	1.5	500	330
DI-N-BUTYLPHTHALATE	<500	ug/Kg	1.5	500	330
FLUORANTHENE	720	ug/Kg	1.5	500	330
PYRENE	560	ug/Kg	1.5	500	330
BUTYLBENZYLPHTHALATE	<500	ug/Kg	1.5	500	330
3,3'-DICHLOROBENZIDINE	<500	ug/Kg	1.5	500	330
BENZO[A]ANTHRACENE	J340	ug/Kg	1.5	500	330
CHRYSENE	J400	ug/Kg	1.5	500	330
BIS(2-ETHYLHEXYL)PHTHALATE	<500	ug/Kg	1.5	500	330
DI-N-OCTYLPHTHALATE	<500	ug/Kg	1.5	500	330
BENZO[B]FLUORANTHENE	J440	ug/Kg	1.5	500	330
BENZO[K]FLUORANTHENE	<500	ug/Kg	1.5	500	330
BENZO[A]PYRENE	J330	ug/Kg	1.5	500	330
INDENO[1,2,3-CD]PYRENE	<500	ug/Kg	1.5	500	330
DIBENZ[A,H]ANTHRACENE	<500	ug/Kg	1.5	500	330
BENZO[G,H,I]PERYLENE	<500	ug/Kg	1.5	500	330
2-FLUOROPHENOL	50	%	1.5		
PHENOL-D6	54	%	1.5		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-19
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 65
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-8	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	40	%	1.5		
2-FLUOROBIPHENYL	53	%	1.5		
2,4,6-TRIBROMOPHENOL	66	%	1.5		
TERPHENYL-D14	64	%	1.5		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-20
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 61
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-9	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
PHENOL	<530	ug/Kg	1.6	530	330
BIS(2-CHLOROETHYL)ETHER	<530	ug/Kg	1.6	530	330
2-CHLOROPHENOL	<530	ug/Kg	1.6	530	330
1,3-DICHLOROBENZENE	<530	ug/Kg	1.6	530	330
1,4-DICHLOROBENZENE	<530	ug/Kg	1.6	530	330
1,2-DICHLOROBENZENE	<530	ug/Kg	1.6	530	330
2-METHYLPHENOL	<530	ug/Kg	1.6	530	330
2,2'-OXYBIS(1-CHLOROPROPANE)	<530	ug/Kg	1.6	530	330
4-METHYLPHENOL	<530	ug/Kg	1.6	530	330
N-NITROSO-DI-N-PROPYLAMINE	<530	ug/Kg	1.6	530	330
HEXACHLOROETHANE	<530	ug/Kg	1.6	530	330
NITROBENZENE	<530	ug/Kg	1.6	530	330
ISOPHORONE	<530	ug/Kg	1.6	530	330
2-NITROPHENOL	<530	ug/Kg	1.6	530	330
2,4-DIMETHYLPHENOL	<530	ug/Kg	1.6	530	330
BIS(2-CHLOROETHOXY)METHAN	<530	ug/Kg	1.6	530	330
2,4-DICHLOROPHENOL	<530	ug/Kg	1.6	530	330
1,2,4-TRICHLOROBENZENE	<530	ug/Kg	1.6	530	330
NAPHTHALENE	<530	ug/Kg	1.6	530	330
4-CHLOROANILINE	<530	ug/Kg	1.6	530	330
HEXACHLOROBUTADIENE	<530	ug/Kg	1.6	530	330
4-CHLORO-3-METHYLPHENOL	<530	ug/Kg	1.6	530	330
2-METHYLNAPHTHALENE	<530	ug/Kg	1.6	530	330
HEXACHLOROCYCLOPENTADIEN	<530	ug/Kg	1.6	530	330
2,4,6-TRICHLOROPHENOL	<530	ug/Kg	1.6	530	330
2,4,5-TRICHLOROPHENOL	<1300	ug/Kg	1.6	1300	820
2-CHLORONAPHTHALENE	<530	ug/Kg	1.6	530	330
2-NITROANILINE	<1300	ug/Kg	1.6	1300	820
DIMETHYL PHTHALATE	<530	ug/Kg	1.6	530	330
ACENAPHTHYLENE	J330	ug/Kg	1.6	530	330
2,6-DINITROTOLUENE	<530	ug/Kg	1.6	530	330
3-NITROANILINE	<1300	ug/Kg	1.6	1300	820
ACENAPHTHENE	<530	ug/Kg	1.6	530	330

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-20
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 61
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-9	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
2,4-DINITROPHENOL	<1300	ug/Kg	1.6	1300	820
4-NITROPHENOL	<1300	ug/Kg	1.6	1300	820
DIBENZOFURAN	<530	ug/Kg	1.6	530	330
2,4-DINITROTOLUENE	<530	ug/Kg	1.6	530	330
DIETHYLPHTHALATE	<530	ug/Kg	1.6	530	330
4-CHLOROPHENYL-PHENYLETHE	<530	ug/Kg	1.6	530	330
FLUORENE	<530	ug/Kg	1.6	530	330
4-NITROANILINE	<1300	ug/Kg	1.6	1300	820
4,6-DINITRO-2-METHYLPHENOL	<1300	ug/Kg	1.6	1300	820
N-NITROSODIPHENYLAMINE	<530	ug/Kg	1.6	530	330
4-BROMOPHENYL-PHENYLETHER	<530	ug/Kg	1.6	530	330
HEXACHLOROBENZENE	<530	ug/Kg	1.6	530	330
PENTACHLOROPHENOL	<1300	ug/Kg	1.6	1300	820
PHENANTHRENE	1500	ug/Kg	1.6	530	330
ANTHRACENE	J450	ug/Kg	1.6	530	330
CARBAZOLE	<530	ug/Kg	1.6	530	330
DI-N-BUTYLPHTHALATE	<530	ug/Kg	1.6	530	330
FLUORANTHENE	3100	ug/Kg	1.6	530	330
PYRENE	2200	ug/Kg	1.6	530	330
BUTYLBENZYLPHTHALATE	<530	ug/Kg	1.6	530	330
3,3'-DICHLOROBENZIDINE	<530	ug/Kg	1.6	530	330
BENZO[A]ANTHRACENE	1400	ug/Kg	1.6	530	330
CHRYSENE	1500	ug/Kg	1.6	530	330
BIS(2-ETHYLHEXYL)PHTHALATE	1200	ug/Kg	1.6	530	330
DI-N-OCTYLPHTHALATE	<530	ug/Kg	1.6	530	330
BENZO[B]FLUORANTHENE	2100	ug/Kg	1.6	530	330
BENZO[K]FLUORANTHENE	710	ug/Kg	1.6	530	330
BENZO[A]PYRENE	1300	ug/Kg	1.6	530	330
INDENO[1,2,3-CD]PYRENE	1000	ug/Kg	1.6	530	330
DIBENZ[A,H]ANTHRACENE	<530	ug/Kg	1.6	530	330
BENZO[G,H,I]PERYLENE	930	ug/Kg	1.6	530	330
2-FLUOROPHENOL	58	%	1.6		
PHENOL-D6	57	%	1.6		

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Proj. ID:

Lab Number: WR2958-20
SDG: WR2958
Report Date: 9/20/01
PO No. : 08.27.01
Project: MIDDLETOWN BROWNFIELD
% Solids: 61
Method: EPA 8270B
Date Analyzed: 9/12/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
SD-9	SL	8/24/01	8/27/01	8/28/2001	SEL	SW3550	JG

Compound	Result	Units	DF	Sample PQL	Method PQL
NITROBENZENE-D5	44	%	1.6		
2-FLUOROBIPHENYL	58	%	1.6		
2,4,6-TRIBROMOPHENOL	72	%	1.6		
TERPHENYL-D14	65	%	1.6		

Report Notes: J

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-12
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 77 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-1	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 22	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1221		< 22	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1232		< 22	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1242		< 22	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1248		< 22	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1254	C	57	ug/Kg	1.3	22	17	09/28/2001	LRS
PCB-1260	C	25	ug/Kg	1.3	22	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		81	%	1.3			09/28/2001	LRS
Decachlorobiphenyl		87	%	1.3			09/28/2001	LRS

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimiliar columns.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-13
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 81 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-2	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1221		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1232		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1242		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1248		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1254	C	69	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1260		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		90	%	1.2			09/28/2001	LRS
Decachlorobiphenyl		90	%	1.2			09/28/2001	LRS

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimilar columns.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-14
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 85 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-3	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1221		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1232		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1242		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1248		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1254		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1260		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		88	%	1.2			09/28/2001	LRS
Decachlorobiphenyl		85	%	1.2			09/28/2001	LRS

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-15
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 80 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-4	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1221		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1232		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1242		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1248		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1254		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1260		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		87	%	1.2			09/28/2001	LRS
Decachlorobiphenyl		88	%	1.2			09/28/2001	LRS

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-16
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 85 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-5	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1221		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1232		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1242		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1248		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1254		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
PCB-1260		< 20	ug/Kg	1.2	20	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		83	%	1.2			09/28/2001	LRS
Decachlorobiphenyl		83	%	1.2			09/28/2001	LRS

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-17
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 80 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-6	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1221		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1232		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1242		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1248		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1254		< 21	ug/Kg	1.2	21	17	09/28/2001	LRS
PCB-1260	C	100	ug/Kg	1.2	21	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		90	%	1.2			09/28/2001	LRS
Decachlorobiphenyl		85	%	1.2			09/28/2001	LRS

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimiliar columns.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-18
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 69 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-7	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 25	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1221		< 25	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1232		< 25	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1242		< 25	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1248	C	120	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1254	C	180	ug/Kg	1.4	25	17	09/28/2001	LRS
PCB-1260	C	83	ug/Kg	1.4	25	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		81	%	1.4			09/28/2001	LRS
Decachlorobiphenyl		87	%	1.4			09/28/2001	LRS

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimiliar columns.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-19
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 65 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-8	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1221		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1232		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1242		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1248		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1254		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
PCB-1260		< 26	ug/Kg	1.5	26	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		90	%	1.5			09/28/2001	LRS
Decachlorobiphenyl		84	%	1.5			09/28/2001	LRS

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing
Windsor, CT 06095

Lab Sample ID: WR2958-20
SDG: WR2958
Report Date: 10/01/2001
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
Percent Solids: 61 %
Analytical Method: SW846 8082

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
SD-9	Solid	08/24/2001	08/27/2001	08/28/2001	SEL	SW846 3550

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
PCB-1016		< 28	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1221		< 28	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1232		< 28	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1242		< 28	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1248		< 28	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1254	C	110	ug/Kg	1.6	28	17	09/28/2001	LRS
PCB-1260	C	87	ug/Kg	1.6	28	17	09/28/2001	LRS
2,4,5,6-Tetrachloro-meta-xylene		88	%	1.6			09/28/2001	LRS
Decachlorobiphenyl		83	%	1.6			09/28/2001	LRS

Report Notes:

'C' flag denotes that the identification of the analyte was confirmed by analysis on dissimiliar columns.

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: FB082401
Matrix: WATER
SDG Name: WR2958
Percent Solids: 0.00
Lab Sample ID: WR2958-001

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	0.29	B		P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SW-1
Matrix: WATER
SDG Name: WR2958
Percent Solids: 0.00
Lab Sample ID: WR2958-002

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	30.6			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.93	B		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SW-2
Matrix: WATER
SDG Name: WR2958
Percent Solids: 0.00
Lab Sample ID: WR2958-003

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	38.4			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	1.4	B		P	1
7439-92-1	LEAD	7.2			P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SW-5**

Matrix: WATER **SDG Name: WR2958**

Percent Solids: 0.00 **Lab Sample ID: WR2958-004**

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	56.2			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	1.1	B		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A Clarity.Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SW-7**

Matrix: WATER **SDG Name: WR2958**

Percent Solids: 0.00 **Lab Sample ID: WR2958-005**

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	61.3			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SW-9
Matrix: WATER
SDG Name: WR2958
Percent Solids: 0.00
Lab Sample ID: WR2958-006

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	52.8			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	3.2	B		P	1
7439-92-1	LEAD	34.0			P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.2	B		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Matrix: WATER
Percent Solids: 0.00

Client Field ID: SW-1
SDG Name: WR2958
Lab Sample ID: WR2958-007

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	36.4			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	1.0	B		P	1
7439-92-1	LEAD	4.7	B		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.3	B		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SW-2**

Matrix: WATER **SDG Name: WR2958**

Percent Solids: 0.00 **Lab Sample ID: WR2958-008**

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	30.9			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SW-5
Matrix: WATER
SDG Name: WR2958
Percent Solids: 0.00
Lab Sample ID: WR2958-009

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	51.2			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	B		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A
Clarity Before: N/A
Color After: N/A
Clarity After: N/A
Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SW-7**

Matrix: WATER **SDG Name: WR2958**

Percent Solids: 0.00 **Lab Sample ID: WR2958-010**

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	59.3			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.57	U		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SW-9**

Matrix: WATER **SDG Name: WR2958**

Percent Solids: 0.00 **Lab Sample ID: WR2958-011**

Concentration Units (ug/L or mg/Kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.53	U		P	1
7440-39-3	BARIUM	29.0			P	1
7440-43-9	CADMIUM	0.24	U		P	1
7440-47-3	CHROMIUM	0.70	B		P	1
7439-92-1	LEAD	1.48	U		P	1
7439-97-6	MERCURY	0.03	U		CV	1
7782-49-2	SELENIUM	3.04	U		P	1
7440-22-4	SILVER	1.03	U		P	1

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-1**

Matrix: SOIL **SDG Name: WR2958**

Percent Solids: 77.3 **Lab Sample ID: WR2958-012**

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.2			P	1
7440-39-3	BARIUM	56.2			P	1
7440-43-9	CADMIUM	0.41	B		P	1
7440-47-3	CHROMIUM	13.6			P	1
7439-92-1	LEAD	236			P	1
7439-97-6	MERCURY	0.11			CV	1
7782-49-2	SELENIUM	0.34	U		P	1
7440-22-4	SILVER	0.72	B		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-2**

Matrix: SOIL **SDG Name: WR2958**

Percent Solids: 81.4 **Lab Sample ID: WR2958-013**

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.0			P	1
7440-39-3	BARIUM	38.1			P	1
7440-43-9	CADMIUM	0.41	B		P	1
7440-47-3	CHROMIUM	9.7			P	1
7439-92-1	LEAD	138			P	1
7439-97-6	MERCURY	0.06			CV	1
7782-49-2	SELENIUM	0.33	U		P	1
7440-22-4	SILVER	0.11	U		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-3**

Matrix: SOIL **SDG Name: WR2958**

Percent Solids: 84.7 **Lab Sample ID: WR2958-014**

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.6			P	1
7440-39-3	BARIUM	95.3			P	1
7440-43-9	CADMIUM	0.02	U		P	1
7440-47-3	CHROMIUM	21.0			P	1
7439-92-1	LEAD	21.2			P	1
7439-97-6	MERCURY	0.01	B		CV	1
7782-49-2	SELENIUM	0.30	U		P	1
7440-22-4	SILVER	0.43	B		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** SD-4

Matrix: SOIL **SDG Name:** WR2958

Percent Solids: 80.4 **Lab Sample ID:** WR2958-015

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.0			P	1
7440-39-3	BARIUM	39.0			P	1
7440-43-9	CADMIUM	0.11	B		P	1
7440-47-3	CHROMIUM	12.4			P	1
7439-92-1	LEAD	39.8			P	1
7439-97-6	MERCURY	0.02	B		CV	1
7782-49-2	SELENIUM	0.31	B		P	1
7440-22-4	SILVER	0.11	U		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-5**

Matrix: SOIL **SDG Name: WR2958**

Percent Solids: 84.9 **Lab Sample ID: WR2958-016**

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	3.6			P	1
7440-39-3	BARIUM	51.2			P	1
7440-43-9	CADMIUM	0.24	B		P	1
7440-47-3	CHROMIUM	11.1			P	1
7439-92-1	LEAD	93.4			P	1
7439-97-6	MERCURY	0.05			CV	1
7782-49-2	SELENIUM	0.31	U		P	1
7440-22-4	SILVER	25.3			P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services

Client Field ID: SD-6

Matrix: SOIL

SDG Name: WR2958

Percent Solids: 79.5

Lab Sample ID: WR2958-017

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	1.0			P	1
7440-39-3	BARIUM	19.5			P	1
7440-43-9	CADMIUM	0.12	B		P	1
7440-47-3	CHROMIUM	26.6			P	1
7439-92-1	LEAD	25.8			P	1
7439-97-6	MERCURY	0.03	B		CV	1
7782-49-2	SELENIUM	0.36	U		P	1
7440-22-4	SILVER	0.16	B		P	1

Color Before: N/A

Texture: N/A

Color After: N/A

Clarity After: N/A

Comments:

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-7**

Matrix: SOIL **SDG Name:** WR2958

Percent Solids: 69.0 **Lab Sample ID:** WR2958-018

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	1.8			P	1
7440-39-3	BARIUM	76.9			P	1
7440-43-9	CADMIUM	1.0	B		P	1
7440-47-3	CHROMIUM	15.2			P	1
7439-92-1	LEAD	88.4			P	1
7439-97-6	MERCURY	0.05			CV	1
7782-49-2	SELENIUM	0.42	U		P	1
7440-22-4	SILVER	1.6	B		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services
Client Field ID: SD-8
Matrix: SOIL
SDG Name: WR2958
Percent Solids: 65.5
Lab Sample ID: WR2958-019

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	2.0			P	1
7440-39-3	BARIUM	68.6			P	1
7440-43-9	CADMIUM	0.09	B		P	1
7440-47-3	CHROMIUM	18.6			P	1
7439-92-1	LEAD	23.4			P	1
7439-97-6	MERCURY	0.02	B		CV	1
7782-49-2	SELENIUM	0.43	U		P	1
7440-22-4	SILVER	0.14	U		P	1

Color Before: N/A
Texture: N/A
Color After: N/A
Clarity After: N/A
Comments:

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INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID: SD-9**

Matrix: SOIL **SDG Name: WR2958**

Percent Solids: 61.0 **Lab Sample ID: WR2958-020**

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF
7440-38-2	ARSENIC	3.7			P	1
7440-39-3	BARIUM	97.6			P	1
7440-43-9	CADMIUM	0.97	B		P	1
7440-47-3	CHROMIUM	15.7			P	1
7439-92-1	LEAD	321			P	1
7439-97-6	MERCURY	0.06			CV	1
7782-49-2	SELENIUM	0.43	U		P	1
7440-22-4	SILVER	0.41	B		P	1

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

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Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-12
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-1	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	77 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac Cert. No. E87604

Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-13
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-2	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	81 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-14
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-3	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	85 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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nelac Cert. No. E87604

Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-15
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-4	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	80 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-16
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-5	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	85 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-17
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-6	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	80 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-18
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-7	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	69 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-19
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-8	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	65 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

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Report of Analytical Results

Client: Sarah Trombetta
TRC Environmental
5 Waterside Crossing

Windsor, CT 06095

Lab Sample ID: WR2958-20
Report Date: 9/25/01 11:43:22 AM
PO No.: 08.27.01
Project: MIDDLETOWN BROWNFIELDS
SDG:
Solids (%)

Sample Description	Matrix	Date Sampled	Date Received
SD-9	SL	8/24/01	8/27/01

Parameter	Result	Adj. PQL	DF	PQL	Analytical Method	Analysis Date	By	Prep Method	Prep Date	By	Notes
Total Solids	61 %	0.10	1	0.10	CLP SOW 788	8/30/01	JF	CLP SOW 788	8/29/2001	JF	

Notes:

Revision: 0.00

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