REQUEST FOR PROPOSALS (RFP)

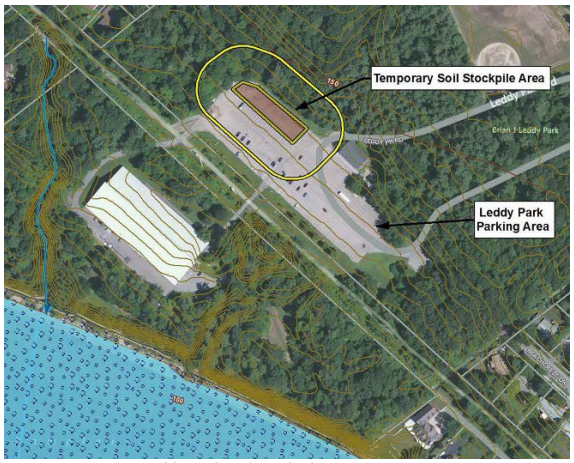
Date: **November 2, 2015**
To: **Open Invitation for Soil Disposal Services**
From: **Burlington Parks, Recreation & Waterfront**
Re: **Leddy Park Soil Stockpile Removal**

I. GENERAL INFORMATION

Leddy Park, 1093 North Ave., Burlington, VT 05401
Burlington Parks, Recreation & Waterfront is seeking proposals from qualified soil disposal contractors to remove and dispose of a stockpile of excavated soil at Leddy Park. Questions concerning this RFP must be made via email per the schedule outlined below. Responses to all submitted questions will be posted at: http://www.burlingtonvt.gov/RFP.

Issue date:	Monday, November 2, 2015
Optional site visit:	Wednesday, November 4, 2015 from 12:30 PM (Please confirm attendance with project coordinator)
Questions due:	Thursday, November 5, 2015 by 4:00 PM
Proposals due:	Monday, November 9, 2015 by 12:00 PM

Inquiries/submissions to: **Jon Adams-Kollitz, Parks Project Coordinator**
Burlington Parks, Recreation & Waterfront
jadamskollitz@burlingtonvt.gov
(802) 540-0363



Leddy Park Soil Stockpile – Locator Map

II. PROJECT DESCRIPTION

In October/November 2014, excavated soil from the Burlington Bike Path Rehabilitation Phase 1a construction project was relocated, stockpiled and poly-encapsulated at the Leddy Park parking lot. The pile contains approximately 2500 cubic yards in four discreet piles, and all are surrounded by a rigid fence. BPRW is currently acquiring a more precise volume calculation of the pile. The soils have been thoroughly tested, as mandated by the State of VT DEC (tables attached). Presently, the City of Burlington is awaiting a jurisdictional decision from the EPA, and in turn, disposal options from either the EPA or DEC. In preparation for a timely response to these decisions, BPRW is seeking bids for the removal and proper disposal of all of the material.

Soil stockpile looking southeast

Soil stockpile looking northwest

III. SCOPE OF WORK

Please carefully read the following information that details the City's expectations in relation to the project scope of work. The selected contractor will provide the City with professional services to realize the successful implementation of all aspects of this scope. The contractor will be responsible for coordinating work with all sub-contractors. The list and order of activities outlined below may be amended and finalized with the contractor. The scope of work includes, but is not limited to, the following elements:

Preliminary Arrangements

- Submit and obtain approval of waste profile from authorized disposal facility
- Obtain approval from ~~EPA or~~ VT DEC for disposal plan
- Obtain all applicable permits for transport and disposal of this material
- Submit traffic control plan

Stockpile Loading & Cleanup

- Assuming the project will last more than one ~~work day~~workday, stockpile security fencing and poly-encapsulation to be fully restored at the end of each workday.
- HAZWOPER certification required for all on site staff
- Sequenced removal of fencing & storage at NE corner of Leddy parking lot~~ and return to (Essex Equipment)~~
- Sequenced removal and proper disposal of poly-encapsulation ~~material~~ soil
- Removal of approximately 300 sand bags and storage at NE corner of Leddy parking lot
- ~~Sequenced removal and proper disposal of sand bags~~
- BPRW shall be responsible for removing clean sand pile at north end of stock pile
- Loading of material onto transport vehicles~~Staged cleanup (broom clean) of parking lot surface as material is removed~~
- Contractor and any subcontractors shall provide written verification that all truck drivers and equipment operators are properly licensed and in good standing
- Work directly with BPRW's resident soils consultant to ensure compliance with EPA/DEC procedure/policy, ensure proper site management, including but not limited to the following:
    - Moving of material and loading of trucks in a manner that produces no visible dust (site may be subject to airborne particulate testing)
    - All of the trucks leave clean and free of any lose soil
    - No soil is tracked from the immediate vicinity of the stockpile loading area, if tracking occurs it will be immediately swept, collected and returned to the stockpile of origin. ~~no tracking soil~~
    - Secure truck or trailer tailgate latches
    - No water leaking from the loaded soil transport truck ~~box~~
    - Load covers are functional and loads are completely covered prior to departure
    - No residual soil to be left anywhere on site (to be confirmed by resident consultant). Any methods of cleanup must be fully recoverable
    - BPRW's resident soils consultant may stop work at any time due to weather conditions, improper site management, etc.

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Disposal

- All material, inclusive of poly-encapsulation, to be properly disposed of. Contractor shall provide manifests for ~~this~~all soil and any other construction debris that has come into contact with the stockpiled soils
- Retain all trucking manifests, load slips, and bills of lading, and submit to BPRW & BPRW's soils consultant (to be determined) for inclusion in closure report

IV. RFP SUBMITTAL

Reponses to this RFP must be not more than 24 pages in length (12 double-sided or 24 single-sided pages) and include the following:

1) Qualifications Detail consisting of:
    a) Cover letter including statement of understanding & approach to this project;
    b) Attachment A (provided in this RFP): Signed by a representative of lead contractor attesting that all terms, conditions and procedures outlined in this RFP are understood and have been followed;
    c) Proposed Project Team Members: A description of the team composition, areas of expertise, and role of each sub-contractor on the team. Clearly indicate the applicant's designated project manager as well as sub-contractors who will be assigned to the work and their respective expertise in such work;
    d) Specific Project Experience: Descriptions detailing completed, similar or relevant project experience that the applicant has executed. Links to similar or relevant projects are encouraged;
    e) List of References: Provide a minimum of three client references with which the applicant has provided similar design/build services within the last five years. Include the name and telephone number of the contact person and a description of the role and services provided to that contact.

2) Technical Proposal consisting of:
    a) A description of the approach to be taken toward completion of the project, an explanation of any variances to the proposed scope of work as outlined~~s~~ in the RFP, and any insights into the project gained as a result of developing the proposal;
    ~~a)~~ This description should include the proposed approach to eliminating dust, cleaning all residual soil from the asphalt parking surface, and eliminating tracking via vehicle tires.
    b) A scope of work that includes steps to be taken, including any products or deliverables;
    c) A summary of estimated labor hours by task that clearly identifies the project team members and the number of hours performed by each sub-contractor by task;
    d) A proposed scheduled that indicates project milestones and overall time for completion; expedited schedules will receive a higher ranking
    e) Any other information deemed necessary to address the requests of this RFP.

3) Cost Proposal consisting of:
    a) A composite schedule by task of direct labor hours;

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b) An itemized schedule of all expenses, including both labor and direct expenses. If the use of sub-consultants is proposed, a separate schedule of hours and expenses must be provided for each sub-consultant)

c) A maximum budget amount of inclusive of all fees and expenses.

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~~4)~~ Bid Schedule: Please complete the following bid schedule and include in your proposal. Stockpile has been estimated to be 3600 tons. A more accurate volume calculation, and weight conversion, is forthcoming and is expected to be issued as an addendum to this RFP during the week of November 2, 2015.

Item	Unit	Qty	Unit Price	Total
Soil removal – trucking	Ton	3600		
Soil removal – landfill	Ton	3600		
Soil removal – tipping fee	Ton	3600		
Soil loading	Ton	3600		
Preliminary work	Lump sum			
Site cleanup/close out	Lump sum			

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Responses to this RFP must be received per the schedule outlined on Page 1 to be considered. Proposals must be submitted in both digital (PDF) and printed formats. Provide one print copy of the proposal in addition to the digital file, which may be emailed or submitted on a CD. Applicants will receive a confirmation email once their proposal is received. Please ensure that the document is easily printable in an 8.5x11 format.

Additional requirements are as follows:

- Applicants are solely responsible for ensuring that proposals arrive on time.
- Each applicant MUST provide their submittal electronically as a PDF.
- Faxed proposals WILL NOT be accepted.
- Late replies WILL NOT be considered.

Proposals and questions should be submitted to Jon Adams-Kollitz, Parks Project Coordinator, Burlington Parks, Recreation & Waterfront at jadamskollitz@burlingtonvt.gov.

Proposals may be mailed or delivered to:

Jon Adams-Kollitz, Parks Project Coordinator
Burlington Parks, Waterfront & Recreation

645 Pine Street, Suite B
Burlington, Vermont 05401

V. EVALUATION CRITERIA & SELECTION PROCESS

In compliance with the City of Burlington's Procurement Policy, BPRW will evaluate all complete proposals from qualified Contractors on the following criteria. Consultants will be scored up to a maximum of 100 points based on the following:

1. **Experience & Qualifications** relevant to key personnel and/or sub-contractors (15 pts)
2. **Project Understanding & Knowledge of Area** depth or relevant technical experience (15 pts)
3. **Ability to Meet Schedule** expedited & efficient schedules receive higher score (15 pts)
4. **Ability to Meet Budget/Value** as related to proposed and additional costs (15 pts)
5. **Depth of Skills** related to technical aspects of project (10 pts)
6. **Demonstration of Innovative Approaches** particular to technical solutions (10 pts)
7. **Level of Experience** with municipalities of similar size, structure and complexity (10 pts)
8. **Quality, Clarity & Completeness of Submittal Package** (10 pts)

VI. ANTICIPATED PROJECT SCHEDULE

The City requires that all related work, inclusive of design and construction, be completed by **December 15, 2015**. The City reserves the right to amend all dates. While this timeline may be subject to change, all participating parties will be notified.

- November 9, 2015 — Proposals due
- November 10, 2015 — Proposal review & preliminary selection
- November 16, 2015 — Board of Finance Approval
- November 16, 2015 — City Council Approval
- November 17, 2015 — Notice to Proceed
- December 15, 2015 — Project Completion

VII. TERMS & CONDITIONS

Communications

It is important that all respondents are given clear and consistent information. Therefore, all respondents are required to submit any questions related to this project or RFP process via email. Responses to all submitted questions will be posted on the Parks & Recreation website at: http://www.burlingtonvt.gov/RFP. Questions concerning this RFP must be received via email per the schedule outlined on page 1. Inquiries received after this date will not be considered or answered.

Respondents should not communicate with any City department or employee during the submission process except as described above. In addition, no communications should be initiated by a respondent to any City Official or persons involved in evaluating or considering the statement of qualifications. Communication with any parties for any purpose other than those expressly described herein may cause an individual firm, or team to be disqualified from participating.

Other terms

Costs for preparing proposals in response to this request are solely the responsibility of the respondent. The City of Burlington reserves the right to accept or reject any or all proposals, with or without cause, and to waive immaterial defects and minor irregularities in responses. All decisions related to this solicitation by the City will be final.

The City reserves the right to request clarification of information submitted and to request additional information of one or more respondents. All materials submitted in response to this RFP will become the property of the City upon delivery. This solicitation in no way obligates the City of Burlington to award a contract.

It will be necessary for responding parties to comply fully with the terms and conditions outlined in this document if they are to be considered. A letter attesting that the respondent has read, understands, and followed all procedures is a part of this RFP must be included as part of the final submittal (Attachment A).

~~The Consultant~~The Contractor, as well as any sub-consultants and/or subcontractors, shall comply with all applicable Federal, State and local laws, including but not limited to the City of Burlington Livable Wage Ordinance. Each party will be required to sign and notarize the Livable Wage Compliance Certification. See attached Livable Wage Poster for fiscal year 2015 (Attachment B).

The ~~Consultant~~ Contractor shall comply with the City's Standard Contract Provisions (Attachment C).

Equal Opportunity: the selection of consultant shall be made without regard to race, color, sex, age, religion, national origin, or political affiliation. The City of Burlington is an Equal Opportunity Employer and encourages proposals from qualified minority and woman-owned businesses.

ATTACHMENT A

Understanding of RFP Procedure, Terms and Conditions

This page to be returned with qualifications submission

I acknowledge that I have read and understand all procedures and requirements of the above reference RFP and have complied fully with the general terms and conditions outlined in the RFP.

Contractor/Team: _____

Representative's Printed Name: _____

Representative's Signature: _____

Date: _____

ATTACHMENT B
FY 2015 Livable Wage Poster

Livable Wage Ordinance

****EFFECTIVE JULY 1, 2014****

Are You Receiving A Livable Wage?

The Burlington Livable Wage Ordinance requires that if you are working on a specific City of Burlington service contract or subcontract above a certain amount your employer must pay you at least $13.94 an hour **with health insurance**.

$13.94

If you are working on a specific City of Burlington service contract or subcontract above a certain amount your employer must pay you at least $15.83 an hour **without health insurance.**

$15.83

What Are Your Rights Under the Livable Wage?

All employees who work directly on a City of Burlington service contract or a subcontract may be eligible. To find out if you are covered by the Livable Wage Ordinance you may call the Office of the Chief Administrative Officer at 802/865-7000.

Are You Eligible to Receive The Livable Wage?

Covered employees are required to be paid at least the above amounts. If you are covered and your employer reduces your pay, your employer shall be considered in violation. You are protected by law if you assert your rights under the Livable Wage Ordinance.

Why Report A Livable Wage Violation?

If your employer is required to be paying you the Livable Wage and is not, he or she may be required to pay you back wages and be subject to any other appropriate action as outlined in the Ordinance.

Employee Earned Income Tax Credit

Are you raising a family and making less than $30,000? If so, you could be eligible to receive the Earned Income Tax Credit (EITC.) You may even be eligible if your income is so low that you do not owe any taxes. The EITC can reduce your taxes or provide a cash refund. There is a federal and state EITC, so ask about both. To find out if you qualify and how to get this benefit speak to your employer's payroll clerk or call IRS at 1.800.TAX.1040.

To file a complaint Contact:
Office of the Chief Administrative Officer, 149 Church Street, Burlington, VT 05401
802-865-7019

Revised 5/14

ATTACHMENT C

Standard Contract Provisions

Wherever used, abbreviations may be used in place of a word or phrase and definitions may be used to interpret statements for the meaning of words phrases or expressions. The intent and meaning for abbreviations and definitions shall be interpreted as herein set forth:

AASHTO	American Association of State Highway and Transportation Officials
AGC	Associated General Contractors of America
AIA	American Institute of Architects
ANR	Agency of Natural Resources
ANSI	American National Standards Institute
ASCE	American Society of Civil Engineers
AWS	American Welding Society
CADD	Computer Aided Drafting and Design
CES	Consultant Engineering Services
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
EEO	Equal Employment Opportunity
EIS	Environmental Impact Statement
EDM	Electronic Data Media
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation
FHWA	Federal Highway Administration, U.S. Department of Transportation
FRA	Federal Railroad Administration
FSS	Federal Specifications and Standards (General Services Administration)
FTA	Federal Transit Administration
SIR	Self Insured Retention
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
VAOT	Vermont Agency of Transportation
VOSHA	Vermont Occupational Safety and Health Act
VSA	Vermont Statutes Annotated

1. INDEMNIFICATION

The Consultant will act in an independent capacity and not as officers or employees of the Municipality. The Consultant shall indemnify, defend and hold harmless the Municipality and its officers and employees from liability and any claims, suits, expenses, losses, judgments, and damages arising as a result of the Consultant's acts and/or omissions in the performance of this contract.

The Municipality is responsible for its own actions. The Consultant is not obligated to indemnify the Municipality or its officers, agents and employees for any liability of the Municipality, its officers, agents and employees attributable to its, or their own, negligent acts,

errors or omissions.

In the event the Municipality, its officers, agents or employees are notified of any claims asserted against it or them to which this Indemnification clause may apply, the Municipality or its officers, agents and employees shall immediately thereafter notify the Consultant in writing that a claim to which the Indemnification Agreement may apply has been filed.

2. INSURANCE

GENERAL: Prior to beginning any work the Consultant shall obtain the following insurance coverage from an insurance company registered and licensed to do business in the State of Vermont and having an A.M. Best insurance rating of at least A-, financial size category VII or greater (www.ambest.com). The certificate of insurance coverage shall be documented on forms acceptable to the Municipality. Evidence of compliance with minimum limits and coverages, evidenced by a certificate of insurance showing policies and carriers that are acceptable to the Municipality, must be received prior to the effective date of the Agreement. The insurance policies shall provide that insurance coverage cannot be canceled or revised without thirty (30) days prior notice to the Municipality. In the event that this Contract extends to greater than one year, evidence of continuing coverage must be submitted to the Municipality on an annual basis. Certified copies of any insurance policies may be required. Each policy (with the exception of workers compensation) shall name the CITY as an additional insured for the possible liabilities resulting from the Consultant's actions or omissions. It is agreed that the liability insurance furnished by the Consultant is primary and non-contributory for all the additional insured.

The Consultant is responsible to verify <u>and confirm in writing to the CITY</u> that:

(a) All subconsultants, agents or workers meet the minimum coverages and limits plus maintain current certificates of coverage for all subconsultants, agents or workers. Subconsultants and contractors must comply with the same insurance requirements as the Consultant.

(b) All coverages shall include adequate protection for activities involving hazardous materials.

(c) All work activities related to the agreement shall meet minimum coverages and limits.

No warranty is made that the coverages and limits listed herein are adequate to cover and protect the interests of the Consultant for the Consultant's operations. These are solely minimums that have been developed and must be met to protect the interests of the Municipality.

GENERAL LIABILITY AND PROPERTY DAMAGE:

(a) With respect to all operations performed by the Consultant, subconsultants, agents or workers, it is the Consultant's responsibility to insure that general liability insurance coverage provides all major divisions of coverage including, but not limited to:

1. Premises Operations
2. Independent Contractors' Protective
3. Products and Completed Operations
4. Personal Injury Liability
5. Contractual Liability
6. Broad Form Property Damage
7. Medical Expenses
8. Collapse, Underground and Explosion Hazards

(b) The policy shall be on an occurrence form with limits not less than:

1. General Aggregate	$2,000,000
2. Products-Completed/Operations Aggregate	$2,000,000
3. Personal & Advertising Injury	$1,000,000
4. Each Occurrence	$1,000,000
5. Fire Damage (Any one fire)	$ 250,000
6. Med. Expense (Any one person)	$ 5,000

WORKERS' COMPENSATION: With respect to all operations performed, the Consultant shall carry workers compensation insurance in accordance with the laws of the State of Vermont and ensure that all subcontractors and subconsultants carry the same workers' compensation insurance for all work performed by them under this contract. Minimum limits for Employer's Liability:

(a) Bodily Injury by Accident: $500,000 each accident
(b) Bodily Injury by Disease: $500,000 policy limit, $500,000 each employee

PROFESSIONAL LIABILITY INSURANCE:

(a) General. This applies only to those Contracts specifically identified as requiring Errors & Omissions (**E&O**) Insurance. The Consultant shall carry architects/engineers professional liability insurance covering errors and omissions made during their performance of contractile duties with the following minimum limits:

$2,000,000 - Annual Aggregate
$1,000,000 - Per Occurrence

(b) Deductibles. The consultant is responsible for any and all deductibles.

(c) Coverage. Prior to performing any work, the Consultant agrees to provide evidence of **E&O** insurance coverage defined under this Section. In addition, the Contractor agrees to attempt to maintain continuous professional liability coverage for the period of the agreement and whenever applicable any construction work related to this agreement, and for a period of five years following substantial completion, if such coverage is reasonably available at commercially affordable premiums.

VALUABLE PAPERS INSURANCE: The Consultant shall carry valuable papers insurance in a form and amount sufficient to ensure the restoration or replacement of any plans, drawings, field notes, or other data relating to the work, whether supplied by the Municipality or developed by the Consultant, sub consultant, worker or agent, in the event of loss, impairment or destruction of these documents. Such coverage shall remain in force until the final plans, and all related materials, have been delivered by the Consultant to, and accepted by, the Municipality.

The policy shall provide coverage on an each occurrence basis with limits not less than:

Valuable Papers	$10,000
Electronic Data Media	$10,000

AUTOMOBILE LIABILITY: The Consultant shall carry commercial automobile liability insurance covering all motor vehicles, including owned, non-owned and hired, used in connection with the agreement. Each policy shall provide coverage with a limit not less than: $1,000,000 - Combined Single Limit for each occurrence.
UMBRELLA LIABILITY:

$1,000,000 Each Event Limit
$1,000,000 General Aggregate Limit

3. COMPLIANCE WITH LAWS

GENERAL COMPLIANCE WITH LAWS: The Consultant shall comply with all applicable Federal, State and local laws, including but not limited to the Burlington Livable Wage Ordinance.

Provisions of the Agreement shall be interpreted and implemented in a manner consistent with each other and using procedures that will achieve the intent of both parties. If, for any reason, a provision in the Agreement is unenforceable or invalid, that provision shall be deemed severed from the Agreement, and the remaining provisions shall be carried out with the same force and effect as if the severed provisions had never been a part of the Agreement.

ENVIRONMENTAL REGULATIONS: Any Contract in excess of one hundred thousand dollars shall comply with all applicable standards, orders or requirements issued under Section 306 of the Clean Air Act (42 U.S.C. ɜ 1857(h)), Section 508 of the Clean Air Act (33 U.S.C. ɜ 1368), Executive Order 11738, and Environmental Protection Municipality regulation (40 CFR Part 15), that prohibit the use, under non-exempt Federal Contracts, grants or loans, of facilities included on the EPA list of Violating Facilities. The provisions require reporting of violations to the grantor, Municipality and to the USEPA Assistant Administrator for Enforcement (EN-329).

CIVIL RIGHTS and EQUAL EMPLOYMENT OPPORTUNITY: During performance of the Agreement, the Consultant will not discriminate against any employee or applicant for employment because of race, age, color, religion, sex, national origin, physical disability or veteran status.

The Consultant shall comply with the applicable provisions of Title VI of the Civil Rights Act of 1964 as amended, Executive Order 11246 as amended by Executive Order 11375 and as supplemented by the Department of Labor regulations (41 CFR Part 60). The Consultant shall also comply with the rules, regulations and relevant orders of the Secretary of Labor, Nondiscrimination regulations 49 CFR ϶ 21 through Appendix C, and Regulations under 23 CFR ϶ 710.405 (b) . Accordingly, all subcontracts shall include reference to the above. The Consultant shall comply with all the requirements of Title 21, VSA, Chapter 5, Subchapter 6 and 7, relating to fair employment practices to the extent applicable. A similar provision shall be included in any and all subcontracts.

DEBARMENT CERTIFICATION: When signing a Contract in excess of twenty five thousand dollars, the Consultant certifies under the penalty of perjury as directed by Federal laws (48 CFR 52.209-5), that, except as noted in the Agreement, the Consultant or any person associated therewith in the capacity of owner, partner, director, officer, principal investigator, project director, manager, auditor, or any position involving the administration of federal funds:

(a) is not currently under suspension, debarment, voluntarily exclusion or determination of ineligibility by any Federal agency;

(b) has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past three (3) years;

(c) does not have a proposed debarment pending; and

(d) has not been indicted, convicted, or had a civil judgement rendered against him/her by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three (3) years.

Exceptions will not necessarily result in denial of the Contract but will be considered in determining the Consultant=s responsibility. <u>The Agreement shall indicate any exception and identify to whom or to what Municipality it applies and dates of action.</u> Providing false information may result in criminal prosecution or administrative sanctions.

Exceptions shall be noted in the Contract:

LOBBYING: For any Agreement exceeding one hundred thousand dollars, the Consultant certifies by signing the Agreement, that to the best of their knowledge and belief on behalf of their signature:

(a) No Federal appropriated funds have been paid or will be paid by or to any person

influencing or attempting to influence an officer or employee of a government agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal Contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, or the extension, renewal, amendment or modification of any Federal Contract grant, loan or cooperative Agreement.

(b) They will complete and submit, in accordance with its instructions, Standard Form-LLL "Disclosure Form to Report Lobbying", if any funds, other than Federal appropriated funds, have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of a government agency or a Member of Congress in connection with the Federal Agreement, grant loan, or cooperative Agreement.

(c) They shall require that the language of this Certification be included in the award documents for all subawards at all tiers (including subcontractors, subgrants and contracts under grants, loans and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact, upon which reliance was placed when the Agreement was made or entered into. Submission of this certification is a prerequisite for making or entering into the Agreement, imposed by Section 1352, Title 31, U.S.C..

Section 1352 of Title 31, U.S.C., provides, in part, that no appropriated funds may be expended by the recipient of a Federal contract, grant, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any government agency, Member of Congress, officer or employee of Congress, or employee of a Member of Congress, in the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative Agreement.

CHILD SUPPORT PAYMENTS: By signing the Contract the Consultant certifies, as of the date of signing the Agreement, that they are (a) not under an obligation to pay child support; or (b) is under such an obligation and is in good standing with respect to that obligation; or (c) has agreed to a payment plan with the Vermont Office of Child Support Services and is in full compliance with that plan. If the Consultant is a sole proprietorship, the Consultant=s statement applies only to the proprietor. If the Consultant is a partnership, the Consultant's statement applies to all general partners with a permanent residence in Vermont. If the Consultant is a corporation, this provision does not apply.

TAX REQUIREMENTS: By signing the Agreement, the Consultant certifies, as required by law under 32 VSA, Section 3113, that under the pains and penalties of

perjury, he/she is in good standing with respect to payment, or in full compliance with a plan to pay, any and all taxes due the State of Vermont as of the date of signature on the Agreement.

ENERGY CONSERVATION: The Consultant shall recognize mandatory standards and policies relating to energy efficiency that are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act P.L. 94-165.

4. CONTRACTUAL AGREEMENTS

REGISTRATION: The Consultant agrees to maintain its registration with the Vermont Secretary of State's office as a corporation doing business in the State of Vermont at all times this contract is effective. This registration must be complete prior to contract execution.

ADMINISTRATION REQUIREMENTS: By signing the Agreement the Consultant agrees to comply with the following provisions and certifies that he/she or they are in compliance with the provisions of 49 CFR э 18.36 Procurement (i) Contract Provisions with principal reference to the following:

(a) Copeland "Anti-Kickback" Act. For any Federal-Aid Contracts or subcontracts for construction or repair, the Consultant agrees to comply with the Copeland "Anti-Kickback" Act, 18 U.S.C. э 874, as supplemented by Department of Labor Regulations, 29 CFR э 3.

(b) Davis-Bacon Act. For any Federal-Aid construction contracts in excess of $2,000, the Consultant agrees to comply with the Davis-Bacon Act 40 U.S.C. ээ 276a to a-7, as supplemented by Department of Labor Regulations, 29 CFR э 5.

(c) Work Hours. For any Federal-Aid construction contracts in excess of $ 2,000, or in excess of $ 2,500 for other contracts involving employment of mechanics or laborers, the Consultant agrees to comply with the Contract Working Hours and Safety Standards Act, 40 U.S.C. ээ 327-330,as annexed by Department of Labor Regulations, 29 CFR э 5.

(d) Proprietary Rights. The parties under the Agreement hereby mutually agree that, if patentable discoveries or inventions should result from work performed under the Agreement, all rights accruing from such discoveries or inventions shall be the sole property of the Consultant. The Consultant, however, agrees to and does hereby grant to the Municipality, the State of Vermont and the United States Government an irrevocable, nonexclusive, non-transferable, and royalty-free license to practice each invention in the manufacture, use, and disposition, according to law, of any article or material or use of method that may be developed, as a part of the work under the Agreement.

(e) Publications. All data, EDM, valuable papers and documents produced under the terms of the Agreement, shall become the property of the Municipality. The Consultant agrees to allow access to all data, EDM, valuable papers and documents at all times. The Consultant shall not copyright any material originating under the Agreement without prior written approval of the Municipality.

PERSONNEL REQUIREMENTS AND CONDITIONS: A Consultant shall employ only qualified personnel, for responsible authority to supervise the work. The Municipality shall have the right to approve or disapprove key personnel assigned to administer activities related to the Agreement.

Except with the approval of the Municipality, during the life of the Agreement, the Consultant shall not employ:

(a) Personnel on the payroll of the Municipality who are directly involved with the awarding, administration, monitoring, or performance of the Agreement or any project(s) that are the subjects of the Agreement.

(b) Any person so involved within one (1) year of termination of employment with the Municipality.

The Consultant warrants that no company or person has been employed or retained, other than a bonafide employee working solely for the Consultant, to solicit or secure this Agreement, and that no company or person has been paid or has an agreement with the Consultant to be paid, other than a bonafide employee working solely for the Consultant, any fee, commission, percentage, brokerage fee, gift, or any other consideration, contingent upon or resulting from the award or making of the Agreement. For breach or violation of this warranty, the Municipality shall have the right to annul the Agreement, without liability to the Municipality, and to regain all costs incurred by the Municipality in the performance of the Agreement.

The Municipality reserves the right to require removal of any person employed by a Consultant, from work related to the Agreement, for misconduct, incompetence, or negligence, in the opinion of the Municipality in the due and proper performance of its duties, or who neglects or refuses to comply with the requirements of the Agreement.

TRANSFERS, SUBLETTING, ETC: A Consultant shall not assign, sublet, or transfer any interest in the work, covered by an Agreement, without prior written consent of the Municipality and further, if any subconsultant participates in any work involving additional services, the estimated extent and cost of the contemplated work must receive prior written consent of the Municipality. The approval or consent to assign or sublet any portion of the work, shall in no way relieve the Consultant of responsibility for the performance of that portion of the work so transferred. The form of the subcontractor's agreement shall be as developed by the Consultant and approved by the Municipality. The Consultant shall ensure that adequate insurance coverage exists for any operations to

be performed by any subconsultant.

The services of the Consultant, to be performed under the Agreement, are personal and shall not be transferred without written authorization of the Municipality and, when applicable, approved by the State of Vermont and FHWA. Any authorized subagreements, exceeding ten thousand dollars in cost, shall contain all of the same provisions specified for and attached to the original Agreement with the Municipality.

BEGINNING AND COMPLETION OF WORK: The Consultant agrees to begin performance of services, specified in the Agreement, in accordance with the terms of the Agreement, as arranged in negotiations with the Municipality, or within ten (10) days of the date of written notice to begin work by the Municipality, and to complete the contracted services by the completion dates specified in the Agreement.

Upon completion of all services covered under the Agreement and payment of the agreed upon fee, the Agreement with its mutual obligations shall be terminated.

CONTINUING OBLIGATIONS: The Consultant agrees that if, because of death or other occurrences, it becomes impossible to effectively perform its services in compliance with the Agreement, neither the Consultant nor its surviving members shall be relieved of their obligations to complete the Agreement. However, the Municipality may terminate the Agreement if it considers a death or incapacity of any members to be a loss of such magnitude that it would affect the firm's ability to satisfactorily execute the Agreement.

OWNERSHIP OF THE WORK: The Consultant agrees that the ownership of all studies, data sheets, survey notes, subsoil information, drawings, tracings, estimates, specifications, proposals, diagrams, calculations, EDM and other material prepared or collected by the Consultants, hereafter referred to as "instruments of professional service", shall become the property of the Municipality as they are prepared and/or developed during execution of the Agreement.

The Consultant shall surrender to the Municipality upon demand or submit for inspection at any time any instruments of professional service that have been collected, undertaken or completed by the Consultant pursuant to the Agreement. Upon completion of the work, in full, these instruments of professional service will be appropriately endorsed by the Consultant and turned over to the Municipality.

Data and publication rights to any instruments of service produced under this agreement are reserved to the Municipality and shall not be copyrighted by the Consultant at any time without written approval of the Municipality. No publications or publicity of the work, in part or in total, shall be made without the agreement of the Municipality, except that Consultants may in general terms use previously developed instruments of professional service to describe its abilities for a project in promotional materials.

RECORDS RETENTION: The Consultant agrees to retain, in company files, all

books, documents, EDM, valuable papers, accounting records, and other evidence, pertaining to costs incurred for work performed under the Agreement, for a period of at least three (3) years after the final "date of acceptance" by the Municipality, unless otherwise notified by the Municipality. The Consultant further agrees that the Municipality, the State of Vermont, FHWA or other authorized representatives of the Federal Government, shall have access to all the above information for the purpose of review and audit during the Agreement period and anytime within the aforementioned retention period. Copies of all the above referenced information shall be provided to the Municipality if requested.

APPEARANCES:

(a) Hearings and Conferences. The Consultant shall provide professional services required by the Municipality and necessary for furtherance of any work covered under the Agreement. Professional services shall include appropriate representation at design conferences, public gatherings and hearings, and appearances before any legislative body, commission, board, or court, to justify, explain and defend its contractual services covered under the Agreement.

The Consultant shall perform any liaison that the Municipality deems necessary for the furtherance of the work and participate in conferences with the Municipality, at any reasonable time, concerning interpretation and evaluation of all aspects covered under the Agreement.

The Consultant further agrees to participate in meetings with the Municipality, the State of Vermont, FHWA, and any other interested or affected participant, for the purpose of review or resolution of any conflicts pertaining to the Agreement. The Consultant shall be equitably paid for such services and for any reasonable expenses incurred in relation thereto in accordance with the Contract document.

(b) Appearance as Witness. If and when required by the Municipality, a Consultant, or an appropriate representative, shall prepare and appear for any litigation concerning any relevant project or related Agreement, on behalf of the Municipality. The Consultant shall be equitably paid for such services and for any reasonable expenses incurred in relation thereto, in accordance with the Contract document.

CHANGES AND AMENDMENTS: No changes or amendments of the Agreement shall be effective unless documented in writing and signed by authorized representatives of the Municipality and the Consultant.

APPENDICES: The Municipality may attach, to these specifications, appendices containing various forms and typical sample sheets for guidance and assistance to the Consultant in the performance of the work. It is understood, however, that such forms and samples may be modified, altered, and augmented from time to time by the Municipality as occasions may require. It is the responsibility of the Consultant to ensure that they have the latest versions applicable to the Agreement.

EXTENSION OF TIME: The Consultant agrees to prosecute the work continuously and diligently and no charges or claims for damages shall be made by the Consultant for delays or hindrances, from any cause whatsoever, during the progress of any portion of services specified in the Agreement. Such delays or hindrances, if any, may be compensated for by an extension of time for such reasonable period as the Municipality may decide. Time extensions shall be granted by amendment, only for excusable delays, such as delays beyond the control of the Consultant and without the fault or negligence of the Consultant.

SETTLEMENTS OF MISUNDERSTANDINGS: In order to prevent misunderstandings and litigation, it is mutually agreed by all parties that the selectboard and/or city council shall act as referee on all questions arising under the terms of an Agreement and that the decision of this governing body in such cases shall be binding upon both parties.

Agreements subjecting costs to final audit, an administrative review regarding the audit will be sent to the Consultant. Any dispute arising from an administrative decision shall be appealed in writing within thirty (30) days of receipt.

FAILURE TO COMPLY WITH TIME SCHEDULE: It is mutually understood and agreed to, that neither party hereto shall be held responsible for delay in performing the work encompassed herein, when such delay is due to unforeseeable causes such as acts of God, or a public enemy, fire, strikes, floods, or legal acts of public authorities. In the event that any such causes for delay are of such magnitude as to prevent the complete performance of the Agreement within two (2) years of the originally scheduled completion date, either party may by written notice request to amend or terminate the Agreement.

MUNICIPALITY'S OPTION TO TERMINATE: The Agreement may be terminated in accordance with the following provisions:

(a) Breach of Contract. Administrative remedies - the Municipality reserves the right to terminate a Contract for breach of Contract agreements. Termination for breach of Contract will be without further compensation to the Consultant.

(b) Termination for Cause. The Municipality reserves the right, upon written notice to the Consultant, to terminate the Agreement, as of a date to be specified by the Municipality, if the Consultant fails to complete the designated work to the satisfaction of the
Municipality, within the time schedule agreed upon. The Consultant shall be compensated on the basis of the work performed and accepted by the Municipality at the date of final acceptance of the Agreement.

(c) Termination for Convenience. In addition to its rights and options to terminate an Agreement as provided herein, the Municipality may, at any time prior to

completion of services specified under an Agreement, terminate the Agreement by submitting written notice to a Consultant, within not less than fifteen (15) days prior to the effective date, via certified or registered mail, of its intention to do so. If the termination is for the Municipality's convenience, payment to the Consultant will be made promptly for the amount of any fees earned to the date of the notice of termination, less any payments previously made. However, if a notice of termination is given to a Consultant prior to completion of twenty (20) percent of the estimated services, as set forth in the approved Work Schedule and Progress Report, the Consultant will be reimbursed for that portion of any reasonable and necessary expenses incurred to date of the notice of termination, that are in excess of the amount earned under its approved fee to the date of said termination. Such requests for reimbursement shall be supported with factual data and shall be subject to the Municipality's approval. The Consultant shall make no claim for additional compensation against the Municipality by reason of such termination.

5. OPERATIONAL STANDARDS

RESPONSIBILITY FOR SUPERVISION: The Consultant shall assume primary responsibility for general supervision of Consultant employees and his/her or their subconsultants for all work performed under the Contract and shall be solely responsible for all procedures, methods of analysis, interpretation, conclusions and contents of work performed under the Agreement.

INDEPENDENCE: The Consultant shall act in an independent capacity and not as officers or employees of the Municipality.

WORK SCHEDULE AND PROGRESS REPORT: Prior to initiating any work, the Consultant shall prepare, and submit to the Municipality, a general work schedule showing how the consultant will complete the various phases of work in order to meet the completion date in the contract. The Municipality will use this general work schedule to monitor the consultant.

During the life of the Contract the Consultant will make monthly progress reports indicating the work achieved through the date of the report. The Consultant shall link the monthly progress reports to the general schedule submitted.

The report shall indicate any matters that have or are anticipated to adversely affect progress of the work. The Municipality may require the Consultant to prepare a revised work schedule, in the event that a specific progress achievement falls behind the scheduled progress by more than thirty (30) days.

UTILITIES: Whenever a facility or component of a private, public, or cooperatively-owned utility will be affected by any proposed construction, the Consultant will counsel with the Municipality, plus achieve any necessary contacts and discussions with the affected owners, regarding any requirement necessary for revisions of facilities or

existing installations, both above and below ground. Any such installations must be completely and accurately exhibited on any detail sheets or plans. The Consultant shall inform the Municipality, in writing, of any such contacts and the results thereof.

PUBLIC RELATIONS: Whenever it is necessary to perform work in the field, particularly with respect to reconnaissance, the Consultant will endeavor to maintain good relations with the public and any affected property owners. Personnel employed by or representing the Consultant shall conduct themselves with propriety. The Consultant agrees to inform property owners and/or tenants, in a timely manner, if there is need for entering upon private property as an agent of the Municipality, in accordance with VSA Title 19 ϶ 35 and ϶ 503, in order to accomplish the work under the Agreement. The Consultant agrees that any work will be done with minimum damage to the land and disturbance to the owner. Upon request of the Consultant, the Municipality shall furnish a letter of introduction to property owners soliciting their cooperation and explaining that the Consultant is acting as an agent of the Municipality.

INSPECTION OF WORK: The Municipality shall, at all times, have access to the Consultant's work for the purposes of inspection, accounting, and auditing, and the Consultant shall provide whatever access is considered necessary to accomplish such inspections. At any time, the Consultant shall permit the Municipality or representative for the Municipality the opportunity to inspect any plans, drawings, estimates, specifications, or other materials prepared or undertaken by the Consultant pursuant to execution of the Agreement.

Conferences, visits to a site, or an inspection of the work, may be held at the request of any involved party or by representatives of the Municipality, the State of Vermont or FHWA.

WRITTEN DELIVERABLES: Written deliverables, presented under terms of the Agreement, shall be on 8 1/2" by 11" paper, consecutively printed on both sides. Reports shall be bound and have a title page that identifies the name and number of the project and publication date. The report shall have a table of contents and each page shall be numbered successively. Draft reports shall be identified as such.

6. PROJECT DEVELOPMENT AND STANDARDS

PLANS RECORDS AND AVAILABLE DATA: The Municipality agrees to make available, at no charge, for the Consultant's use all available data related to the Agreement including any preliminary plans, maps, drawings, photographs, reports, traffic data, calculations, EDM, valuable papers, topographic survey, utility location plats, or any other pertinent public records.

DESIGN STANDARDS: Unless otherwise specifically provided for in the Agreement, or directed in writing, Consultant services, studies or designs, that include or make reference to plans, specifications, special provisions, computations, estimates, or other data necessary for construction of a designed facility, shall be in conformance with

applicable portions of the following specifications, manuals, codes or regulations, including supplements to or revisions thereof, adopted and in effect prior to award of the Agreement:

(a) VAOT=S latest edition of the Standard Specifications for Construction.
(b) VAOT=S Bridge Design Manual.
(c) All applicable AASHTO roadway, traffic, bridge, bicycle and pedestrian policies, guides and manuals.
(d) VAOT=S Manual on Survey.
(e) VAOT=S Right-of-Way Manual.
(f) The Highway Capacity Manual - Special Report 209.
(g) The ANSI/AASHTO/AWS D-1.5, Bridge Welding code.
(h) The MUTCD and Vermont Supplement requirements.
(i) The Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals
(j) Other Municipality directives and guidelines current at the time of the Agreement and as may be issued by the Municipality during the progress of the design.

In case of any conflict with the guidelines referenced, the Consultant is responsible to identify and follow any course of direction provided by the Municipality.

DEVELOPMENT OF PLANS: Unless otherwise indicated in an Agreement, the provisions of these specifications shall apply to any contract requiring preliminary engineering services in connection with highway, bridge, bicycle and pedestrian survey and design. The Consultant is responsible for the development of any and all work outlined in an Agreement.

The Municipality shall establish the termini of the project and may substantiate other conditions relative to locations established in the Agreement. When required under the Agreement, the Consultant will produce an acceptable survey and/or set of plans between such termini and follow any established provisions.

Endorsement of a recommended alignment made, by the Municipality, does not relieve the Consultant of the responsibility for making changes occasioned as a result of an alignment not conforming to standards or good engineering practices when the design is advanced. Nor is the Consultant relieved of changes developed by normal refinements.

Changes in work or Supplemental Agreements, requested or required of the Consultant by the

Municipality, involving extra work or additional services must be properly documented and approved prior to initiating action of any work.

METRICATION: All work performed under a Contract shall be designed to comply with metrication units if specified in the Request for Proposals or the Scope of Work. Guide requirements for metric conversion shall follow criteria outlined in an AASHTO

publication "Guide To Metric Conversion", copyright 1993. Copies of the Guide Requirements are available from AASHTO, 444 North Capitol St., N.W., Suite 225, Washington, DC 20001.

Unless otherwise required for special cases, the Consultant shall use the following conversions for metric units:

(a) Lengths. For lengths less than 1 kilometer use meters. For lengths less than 1 meter use millimeters. For lengths less than 1 millimeter use micrometers.

(b) Mass. For a mass less than 1 metric ton use kilograms. For a mass less than 1 kilogram use grams. For a mass less than 1 gram use milligrams.

(c) Liquid Volume. For liquid volumes less than 1 cubic meter use liters. For liquid volumes less than 1 liter use milliliters. A liter is one thousandth of a cubic meter or 1000 cubic centimeters.

(d) Solid Volume. For a solid volume less than 1 cubic meter use cubic millimeters.

(e) Area. For an area less than 1 hectare use square meters. For an area less than 1 square meter use square millimeters.

(f) Basic Engineering Conversion Factors.

1.	Mass/Unit Length	Pounds/Linear Foot to kilograms/meter (kg/m)
2.	Mass/Unit Area	Pounds/Square Foot to kilograms/square meter (kg/M5)
3.	Mass Density	Pounds/Cubic Foot to kilograms/cubic meter (kg/M;)
4.	Force	Pounds to newtons (N)
5.	Pressure	Pounds/Square Foot to Pascal (Pa = N/M5)
6.	Bending Moment	Newton - meter (N*m)

ELECTRONIC DATA MEDIA: Consultant, subconsultants, or any representatives performing work related to the Agreement, are responsible to insure that all data and information created or stored on EDM is secure and can be duplicated if the EDM mechanism is subjected to power outage or damage.

REVIEWS AND ACCEPTANCES: All preliminary and detailed designs, plans, specifications, estimates or other documents prepared by the Consultant, shall be subject to review and endorsement by the Municipality.

Approval for any inspections or sequences of progress of work shall be documented by letters, memoranda or other appropriate written means.

A frequency for formal reviews shall be set forth in the Agreement. Informal reviews, conducted by the Municipality will be performed as deemed necessary. The Consultants shall respond to all official comments regardless of their source. The Consultant shall supply the Municipality with written copies of all correspondence relating to formal and informal reviews.

No acceptance shall relieve a Consultant of their professional obligation to correct any defects or errors in their work at their own expense.

7. PAYMENT FOR SERVICES RENDERED

PAYMENT PROCEDURES: The Municipality shall pay, or cause to be paid to the Consultant or the Consultant's legal representative, progress payments, that may be monthly or as otherwise accepted by the Municipality, as determined by the percentage of work completed, as documented by a progress report of such work duly attested, for each phase of the required services covered by the Agreement. When applicable, for the type of payment specified in the Agreement, the progress report shall summarize actual costs and any earned portion of fixed fee.

All invoices and correspondence shall indicate the applicable project name, project number and the Agreement number. When relevant, the invoice shall further be broken down in detail between projects.

When applicable, for the type of payment specified in the Agreement, expenses for meals and travel shall be limited to the current approved in-state rates, as determined by the State of Vermont's labor contract, and need not be receipted. All other expenses are subject to approval by the Municipality and must be accompanied with documentation to substantiate their charges.

Invoices shall be submitted to the Municipality; one original and three (3) copies are required.

No approval given or payment made under an Agreement, shall be conclusive evidence of the performance of said Agreement, either wholly or in part thereof, and no payment shall be construed to be acceptance of defective work or improper materials.

The Municipality agrees to pay the Consultant and the Consultant agrees to accept, as full compensation, for performance of all services rendered and expenses encompassed in conformance therewith, the type of fee specified in the Contract.

(a) Indirect Cost Rates. For actual cost contracts, the Consultant is responsible for furnishing the Municipality with independently-prepared, properly supported, Indirect Cost Rates, in accordance with 48 CFR 52.216-7, for all time periods covered under the Agreement. These rates must be developed in accordance with the cost principles in 48 CFR Part 31. A Consultants overhead rate shall be based upon an actual audited overhead rate, unless otherwise specified in the

Agreement.

(b) Contract Types. Contracts shall conform with 48 CFR Part 16 - TYPES OF CONTRACTS.

PAYMENT FOR ADDITIONS OR DELETIONS: The Municipality may, upon written notice, and without invalidating the Agreement, require any changes to, additions to, or deletions from, the originally contemplated extent of the work, prior to completion of the Agreement by means of an amendment to the original contract. Any adjustments of this nature shall be executed under the appropriate fee established in the Agreement, based on the adjusted quantity of work, except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such addition or deletion.

PAYMENT FOR EXTRA WORK, ADDITIONAL SERVICES OR CHANGES: The Municipality may, upon written notice, and without invalidating the Agreement, require changes resulting from revision or abandonment of work already performed by the Consultant or changes in the scope of work.

The value of such changes, to the extent not reflected in other payments to the Consultant, shall be incorporated in an amendment and be determined by mutual agreement, by one or more of the following:

(a) Fixed Price. By a price that is not subject to any adjustment on the basis of the Contractor's expenses experienced in performing the work. The Contractor is fully responsible for all costs and resulting profit or loss.

(b) Rate Schedule. By unit prices designated in the Agreement, or by unit prices covered under any subsequent Agreements.

(c) Actual Cost. By amounts determined on the basis of actual costs incurred, as distinguished from forecasted expenditures.

No changes, for which additional fee payment is claimed, shall be made unless pursuant to a written order from the Municipality, and no claim shall be valid unless so ordered.

The Consultant agrees to maintain complete and accurate records, in a form satisfactory to the Municipality for all time devoted directly to same by Consultant employees. The Municipality reserves the right to audit the records of the Consultant related to any extra work or additional services. Any such services rendered shall be subject, in all other respects, to the terms of the Agreement. When changes are so ordered, no additional work shall be performed by the Consultant until an Agreement amendment has been fully executed, unless written notice to proceed is issued by the Municipality. Any claim for extension of time, that may be necessitated as a result of extra work or additional services and changes, shall be given consideration and evaluated insofar as it directly relates to the change.

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Vanasse Hangen Brustlin, Inc.	090395
PO Box 120	
N. Ferrisburgh, VT 05473	
Atten: Rachel Lomonaco	

PROJECT: Burlington Bike Path - Rev. 2
WORK ORDER: **1410-21517**
DATE RECEIVED: October 15, 2014
DATE REPORTED: November 10, 2014
SAMPLER: Rachel

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

001 Site: SS-A-1 Date Sampled: 10/14/14 Time: 15:00

Parameter	Result	Units	Method	Analysis Date		Lab/Tech		NELAC	Qual.
Ignitability-Solids Package									
Ignitability	Negative		EPA 1030	10/22/14		W	JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W	JSS	U	
pH	8.04	SU at 23.1C	EPA 9045D	10/27/14	14:45	W	MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW	SUB	U	SBP
Reactive Cyanide	< 5.3	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Arsenic, Total	0.95	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	J
Barium, Total	48	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	RPD
Cadmium, Total	< 0.89	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Chromium, Total	12	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Lead, Total TCLP	0.34	mg/L	EPA 6010C	10/31/14		W	RGT	A	
Lead, Total	190	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	M+
Mercury, Total	0.13	mg/Kg, dry	EPA 7471B	10/21/14		W	EER	A	
Selenium, Total	< 1.1	mg/Kg, dry	EPA 7010	10/21/14		W	CM	A	
Silver, Total	< 8.9	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	

002 Site: SS-A-2 Date Sampled: 10/14/14 Time: 15:04

Parameter	Result	Units	Method	Analysis Date		Lab/Tech		NELAC	Qual.
Ignitability-Solids Package									
Ignitability	Negative		EPA 1030	10/22/14		W	JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W	JSS	U	
pH	7.96	SU at 22.9C	EPA 9045D	10/27/14	14:50	W	MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW	SUB	U	SBP
Reactive Cyanide	< 5.6	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Arsenic, Total	4.5	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	J
Barium, Total	43	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Cadmium, Total	< 0.94	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Chromium, Total	13	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010C	10/31/14		W	RGT	A	
Lead, Total	100	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Mercury, Total	0.087	mg/Kg, dry	EPA 7471B	10/21/14		W	EER	A	
Selenium, Total	< 1.2	mg/Kg, dry	EPA 7010	10/21/14		W	CM	A	
Silver, Total	< 9.4	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	

003 Site: SS-A-3 Date Sampled: 10/14/14 Time: 15:08

Parameter	Result	Units	Method	Analysis Date		Lab/Tech		NELAC	Qual.
Ignitability-Solids Package									
Ignitability	Negative		EPA 1030	10/22/14		W	JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W	JSS	U	
pH	8.02	SU at 23.1C	EPA 9045D	10/27/14	14:51	W	MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW	SUB	U	SBP

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

003 Site: SS-A-3 Date Sampled: 10/14/14 Time: 15:08

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Reactive Cyanide	< 5.3	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Arsenic, Total	2.6	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	J
Barium, Total	46	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Cadmium, Total	< 0.80	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Chromium, Total	14	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010C	10/31/14		W RGT	A	
Lead, Total	150	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Mercury, Total	0.15	mg/Kg, dry	EPA 7471B	10/21/14		W EER	A	
Selenium, Total	< 1.0	mg/Kg, dry	EPA 7010	10/21/14		W CM	A	
Silver, Total	< 8.0	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

004 Site: SS-A-6 Date Sampled: 10/14/14 Time: 15:12

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Ignitability-Solids Package								
Ignitability	Negative		EPA 1030	10/22/14		W JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W JSS	U	
pH	7.85	SU at 23.5C	EPA 9045D	10/27/14	14:54	W MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW SUB	U	SBP
Reactive Cyanide	< 5.5	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Arsenic, Total	2.1	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	J
Barium, Total	51	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Cadmium, Total	< 0.91	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Chromium, Total	15	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010C	10/31/14		W RGT	A	
Lead, Total	160	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Mercury, Total	0.065	mg/Kg, dry	EPA 7471B	10/21/14		W EER	A	
Selenium, Total	< 1.4	mg/Kg, dry	EPA 7010	10/21/14		W CM	A	
Silver, Total	< 9.1	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

005 Site: SS-A-7 Date Sampled: 10/14/14 Time: 15:02

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Ignitability-Solids Package								
Ignitability	Negative		EPA 1030	10/22/14		W JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W JSS	U	
pH	7.61	SU at 23.5C	EPA 9045D	10/27/14	14:55	W MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW SUB	U	SBP
Reactive Cyanide	< 5.4	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Arsenic, Total	3.1	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	J
Barium, Total	60	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Cadmium, Total	< 0.93	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

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DATE RECEIVED: 10/15/2014

005 Site: SS-A-7 Date Sampled: 10/14/14 Time: 15:02

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Chromium, Total	32	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Lead, Total TCLP	4.3	mg/L	EPA 6010C	10/31/14		W RGT	A	
Lead, Total	1,500	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Mercury, Total	0.14	mg/Kg, dry	EPA 7471B	10/24/14		W EER	A	
Selenium, Total	< 1.2	mg/Kg, dry	EPA 7010	10/22/14		W CM	A	
Silver, Total	< 9.3	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

006 Site: SS-A-9 Date Sampled: 10/14/14 Time: 15:06

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Ignitability-Solids Package								
Ignitability	Negative		EPA 1030	10/22/14		W JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W JSS	U	
pH	7.88	SU at 24.0C	EPA 9045D	10/27/14	14:59	W MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW SUB	U	SBP
Reactive Cyanide	< 5.1	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Arsenic, Total	5.7	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	J
Barium, Total	40	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Cadmium, Total	< 0.78	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Chromium, Total	13	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010C	10/31/14		W RGT	A	
Lead, Total	100	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Mercury, Total	0.090	mg/Kg, dry	EPA 7471B	10/24/14		W EER	A	
Selenium, Total	< 0.97	mg/Kg, dry	EPA 7010	10/22/14		W CM	A	
Silver, Total	< 7.8	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

007 Site: SS-B-1 Date Sampled: 10/14/14 Time: 16:00

Parameter	Result	Units	Method	Analysis Date		Lab/Tech	NELAC	Qual.
Ignitability-Solids Package								
Ignitability	Negative		EPA 1030	10/22/14		W JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W JSS	U	
pH	8.14	SU at 23.6C	EPA 9045D	10/27/14	15:01	W MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW SUB	U	SBP
Reactive Cyanide	< 5.3	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW SUB	U	SBP
Arsenic, Total	0.62	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	J
Barium, Total	23	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Cadmium, Total	< 0.61	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Chromium, Total	13	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Lead, Total	35	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	
Mercury, Total	0.15	mg/Kg, dry	EPA 7471B	10/24/14		W EER	A	
Selenium, Total	< 0.76	mg/Kg, dry	EPA 7010	10/22/14		W CM	A	
Silver, Total	< 6.1	mg/Kg, dry	EPA 6010C	10/23/14		W RGT	A	

Laboratory Report

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PROJECT: Burlington Bike Path - Rev. 2
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WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

008 Site: SS-C-1 Date Sampled: 10/14/14 Time: 16:05

Parameter	Result	Units	Method	Analysis Date		Lab/Tech		NELAC	Qual.
Ignitability-Solids Package									
Ignitability	Negative		EPA 1030	10/22/14		W	JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	10/22/14		W	JSS	U	
pH	7.46	SU at 24.1C	EPA 9045D	10/27/14	15:03	W	MHM	A	
Reactivity	Negative		EPA Chap. 7.3.3	10/20/14		SW	SUB	U	SBP
Reactive Cyanide	< 5.8	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	10/20/14		SW	SUB	U	SBP
Arsenic, Total	3.3	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	J
Barium, Total	62	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Cadmium, Total	< 0.95	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Chromium, Total	16	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Lead, Total TCLP	< 0.20	mg/L	EPA 6010C	10/31/14		W	RGT	A	
Lead, Total	240	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	
Mercury, Total	0.11	mg/Kg, dry	EPA 7471B	10/24/14		W	EER	A	
Selenium, Total	< 1.2	mg/Kg, dry	EPA 7010	10/22/14		W	CM	A	
Silver, Total	< 9.5	mg/Kg, dry	EPA 6010C	10/23/14		W	RGT	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
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REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

001 Site: SS-A-1 Sampled: 10/14/14 15:00 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 365	ug/Kg, dry	A	
Pyridine	< 365	ug/Kg, dry	A		Aniline	< 365	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 183	ug/Kg, dry	A		1,2-Dichlorobenzene	< 73.0	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 73.0	ug/Kg, dry	A		1,4-Dichlorobenzene	< 73.0	ug/Kg, dry	A	
Benzyl alcohol	< 730	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 365	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 365	ug/Kg, dry	A		Hexachloroethane	< 183	ug/Kg, dry	A	
Nitrobenzene	< 183	ug/Kg, dry	A		N-Nitrosopiperidine	< 365	ug/Kg, dry	N	
Isophorone	< 73.0	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 183	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 73.0	ug/Kg, dry	A		Naphthalene	< 36.5	ug/Kg, dry	A	
4-Chloroaniline	< 183	ug/Kg, dry	N		Hexachlorobutadiene	< 183	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 183	ug/Kg, dry	N		2-Methylnaphthalene	< 36.5	ug/Kg, dry	A	
1-Methylnaphthalene	< 36.5	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 730	ug/Kg, dry	A	
2-Chloronaphthalene	< 73.0	ug/Kg, dry	A		1-Chloronaphthalene	< 73.0	ug/Kg, dry	N	
2-Nitroaniline	< 730	ug/Kg, dry	N		Dimethyl phthalate	< 183	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 183	ug/Kg, dry	A		Acenaphthylene	37.6	ug/Kg, dry	A	
3-Nitroaniline	< 183	ug/Kg, dry	N		Acenaphthene	< 36.5	ug/Kg, dry	A	
Dibenzofuran	< 73.0	ug/Kg, dry	N		2,4-Dinitrotoluene	< 183	ug/Kg, dry	N	
1-Naphthylamine	< 365	ug/Kg, dry	N		2-Naphthylamine	< 365	ug/Kg, dry	N	
Fluorene	< 36.5	ug/Kg, dry	A		Diethyl phthalate	< 183	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 73.0	ug/Kg, dry	A		4-Nitroaniline	< 730	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 183	ug/Kg, dry	A		Azobenzene	< 183	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 73.0	ug/Kg, dry	A		Hexachlorobenzene	< 183	ug/Kg, dry	A	
Phenanthrene	116	ug/Kg, dry	A		Anthracene	36.9	ug/Kg, dry	A	
Carbazole	< 183	ug/Kg, dry	N		Di-n-butylphthalate	< 365	ug/Kg, dry	A	
Fluoranthene	406	ug/Kg, dry	A		Benzidine	< 365	ug/Kg, dry	A	
Pyrene	379	ug/Kg, dry	A		Butyl benzyl phthalate	< 183	ug/Kg, dry	A	
Benzo(a)anthracene	269	ug/Kg, dry	A		Chrysene	315	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 183	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 183	ug/Kg, dry	A	
Di-n-octylphthalate	< 183	ug/Kg, dry	A		Benzo(b)fluoranthene	487	ug/Kg, dry	A	
Benzo(k)fluoranthene	178	ug/Kg, dry	A		Benzo(a)pyrene	281	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	310	ug/Kg, dry	A		Dibenzo(a,h)anthracene	47.1	ug/Kg, dry	A	
Benzo(g,h,i)perylene	271	ug/Kg, dry	A		Phenol	< 183	ug/Kg, dry	A	
2-Chlorophenol	< 183	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 183	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 183	ug/Kg, dry	A		Cresols, Total	< 365	ug/Kg, dry	U	
2-Nitrophenol	< 365	ug/Kg, dry	A		2,4-Dimethylphenol	< 183	ug/Kg, dry	A	
2,4-Dichlorophenol	< 183	ug/Kg, dry	A		2,6-Dichlorophenol	< 183	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 365	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 365	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 365	ug/Kg, dry	A		2,4-Dinitrophenol	< 730	ug/Kg, dry	A	
4-Nitrophenol	< 365	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 730	ug/Kg, dry	A	
Pentachlorophenol	< 365	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	437	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	66	%	U		B/N Surr.2 2-Fluorobiphenyl	77	%	U	
B/N Surr.3 Terphenyl-d14	92	%	U		Acid Surr.1 2-Fluorophenol	48	%	U	
Acid Surr.2 Phenol-d8	55	%	U		Acid Surr.3 Tribromophenol	94	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

001 Site: SS-A-1 Sampled: 10/14/14 15:00 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 90.9	ug/Kg, dry	A	
Aroclor 1221	< 90.9	ug/Kg, dry	A		Aroclor 1232	< 90.9	ug/Kg, dry	A	
Aroclor 1242	< 90.9	ug/Kg, dry	A		Aroclor 1248	< 90.9	ug/Kg, dry	A	
Aroclor 1254	< 90.9	ug/Kg, dry	A		Aroclor 1260	608	ug/Kg, dry	A	
Surrogate-TCMX	106	%	A		Surrogate-DCB	126	%	A	

Laboratory Report

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TEST METHOD: EPA 8015D

001 Site: SS-A-1 Sampled: 10/14/14 15:00 Test Date: 10/16/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 3.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	29.4	mg/Kg, dry	A		C28-C40 TPH	29.5	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	59.0	mg/Kg, dry	U		Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

001 Site: SS-A-1 Sampled: 10/14/14 15:00 Test Date: 10/16/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 3.83	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 3.83	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

001 Site: SS-A-1 Sampled: 10/14/14 15:00 Test Date: 10/20/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 95.0	ug/Kg, Dry	N	
Chloromethane	< 57.0	ug/Kg, Dry	A		Vinyl chloride	< 38.0	ug/Kg, Dry	A	
Bromomethane	< 95.0	ug/Kg, Dry	A		Chloroethane	< 95.0	ug/Kg, Dry	A	
Trichlorofluoromethane	< 38.0	ug/Kg, Dry	N		Diethyl ether	< 95.0	ug/Kg, Dry	N	
1,1-Dichloroethene	< 19.0	ug/Kg, Dry	A		Acetone	< 190	ug/Kg, Dry	N	
Carbon disulfide	< 95.0	ug/Kg, Dry	N		Methylene chloride	< 95.0	ug/Kg, Dry	A	
t-Butanol	< 380	ug/Kg, Dry	N	QA-	Methyl-t-butyl ether (MTBE)	< 38.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 19.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 38.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 19.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 38.0	ug/Kg, Dry	U	
2-Butanone	< 190	ug/Kg, Dry	A	QA-	2,2-Dichloropropane	< 38.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 19.0	ug/Kg, Dry	N		Bromochloromethane	< 38.0	ug/Kg, Dry	N	
Chloroform	< 19.0	ug/Kg, Dry	A		Tetrahydrofuran	< 190	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 19.0	ug/Kg, Dry	A		Carbon tetrachloride	< 19.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 19.0	ug/Kg, Dry	N		Benzene	< 19.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 38.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 19.0	ug/Kg, Dry	A	
Trichloroethene	22.8	ug/Kg, Dry	A		1,2-Dichloropropane	< 38.0	ug/Kg, Dry	A	
Dibromomethane	< 38.0	ug/Kg, Dry	N		Bromodichloromethane	< 19.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 38.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 190	ug/Kg, Dry	N	
Toluene	< 19.0	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 38.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 19.0	ug/Kg, Dry	A		Tetrachloroethene	< 19.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 19.0	ug/Kg, Dry	N		2-Hexanone	< 190	ug/Kg, Dry	N	
Dibromochloromethane	< 38.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 19.0	ug/Kg, Dry	N	
Chlorobenzene	< 19.0	ug/Kg, Dry	A		Ethylbenzene	< 19.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 38.0	ug/Kg, Dry	N		Xylenes, Total	< 38.0	ug/Kg, Dry	A	
Styrene	< 19.0	ug/Kg, Dry	N		Bromoform	< 38.0	ug/Kg, Dry	A	
Isopropylbenzene	< 19.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 38.0	ug/Kg, Dry	A	
Bromobenzene	< 19.0	ug/Kg, Dry	N		n-Propylbenzene	< 19.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 38.0	ug/Kg, Dry	N		2-Chlorotoluene	< 19.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 19.0	ug/Kg, Dry	A		4-Chlorotoluene	< 19.0	ug/Kg, Dry	N	
t-Butylbenzene	< 19.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	20.9	ug/Kg, Dry	A	
s-Butylbenzene	< 19.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 19.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 19.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 19.0	ug/Kg, Dry	A	
n-Butylbenzene	< 38.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 19.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 38.0	ug/Kg, Dry	N	QA-	1,2,4-Trichlorobenzene	< 38.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 38.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 19.0	ug/Kg, Dry	N	
Naphthalene	< 38.0	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 38.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	87	%	U		Surr. 2 (Toluene d8)	94	%	U	
Surr. 3 (4-Bromofluorobenzene)	130	%	U		Unidentified Peaks	1		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

002 Site: SS-A-2 Sampled: 10/14/14 15:04 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 381	ug/Kg, dry	A	
Pyridine	< 381	ug/Kg, dry	A		Aniline	< 381	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 191	ug/Kg, dry	A		1,2-Dichlorobenzene	< 76.2	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 76.2	ug/Kg, dry	A		1,4-Dichlorobenzene	< 76.2	ug/Kg, dry	A	
Benzyl alcohol	< 762	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 381	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 381	ug/Kg, dry	A		Hexachloroethane	< 191	ug/Kg, dry	A	
Nitrobenzene	< 191	ug/Kg, dry	A		N-Nitrosopiperidine	< 381	ug/Kg, dry	N	
Isophorone	< 76.2	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 191	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 76.2	ug/Kg, dry	A		Naphthalene	51.1	ug/Kg, dry	A	
4-Chloroaniline	< 191	ug/Kg, dry	N		Hexachlorobutadiene	< 191	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 191	ug/Kg, dry	N		2-Methylnaphthalene	64.4	ug/Kg, dry	A	
1-Methylnaphthalene	53.7	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 762	ug/Kg, dry	A	
2-Chloronaphthalene	< 76.2	ug/Kg, dry	A		1-Chloronaphthalene	< 76.2	ug/Kg, dry	N	
2-Nitroaniline	< 762	ug/Kg, dry	N		Dimethyl phthalate	< 191	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 191	ug/Kg, dry	A		Acenaphthylene	120	ug/Kg, dry	A	
3-Nitroaniline	< 191	ug/Kg, dry	N		Acenaphthene	< 38.1	ug/Kg, dry	A	
Dibenzofuran	< 76.2	ug/Kg, dry	N		2,4-Dinitrotoluene	< 191	ug/Kg, dry	N	
1-Naphthylamine	< 381	ug/Kg, dry	N		2-Naphthylamine	< 381	ug/Kg, dry	N	
Fluorene	43.8	ug/Kg, dry	A		Diethyl phthalate	< 191	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 76.2	ug/Kg, dry	A		4-Nitroaniline	< 762	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 191	ug/Kg, dry	A		Azobenzene	< 191	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 76.2	ug/Kg, dry	A		Hexachlorobenzene	< 191	ug/Kg, dry	A	
Phenanthrene	627	ug/Kg, dry	A		Anthracene	195	ug/Kg, dry	A	
Carbazole	< 191	ug/Kg, dry	N		Di-n-butylphthalate	< 381	ug/Kg, dry	A	
Fluoranthene	1,260	ug/Kg, dry	A		Benzidine	< 381	ug/Kg, dry	A	
Pyrene	1,120	ug/Kg, dry	A		Butyl benzyl phthalate	< 191	ug/Kg, dry	A	
Benzo(a)anthracene	711	ug/Kg, dry	A		Chrysene	775	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 191	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 191	ug/Kg, dry	A	
Di-n-octylphthalate	< 191	ug/Kg, dry	A		Benzo(b)fluoranthene	1,170	ug/Kg, dry	A	
Benzo(k)fluoranthene	389	ug/Kg, dry	A		Benzo(a)pyrene	781	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	706	ug/Kg, dry	A		Dibenzo(a,h)anthracene	125	ug/Kg, dry	A	
Benzo(g,h,i)perylene	556	ug/Kg, dry	A		Phenol	< 191	ug/Kg, dry	A	
2-Chlorophenol	< 191	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 191	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 191	ug/Kg, dry	A		Cresols, Total	< 381	ug/Kg, dry	U	
2-Nitrophenol	< 381	ug/Kg, dry	A		2,4-Dimethylphenol	< 191	ug/Kg, dry	A	
2,4-Dichlorophenol	< 191	ug/Kg, dry	A		2,6-Dichlorophenol	< 191	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 381	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 381	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 381	ug/Kg, dry	A		2,4-Dinitrophenol	< 762	ug/Kg, dry	A	
4-Nitrophenol	< 381	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 762	ug/Kg, dry	A	
Pentachlorophenol	< 381	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	1,170	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	67	%	U		B/N Surr.2 2-Fluorobiphenyl	79	%	U	
B/N Surr.3 Terphenyl-d14	95	%	U		Acid Surr.1 2-Fluorophenol	50	%	U	
Acid Surr.2 Phenol-d8	58	%	U		Acid Surr.3 Tribromophenol	95	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

002 Site: SS-A-2 Sampled: 10/14/14 15:04 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.59	ug/Kg, dry	A	
Aroclor 1221	< 9.59	ug/Kg, dry	A		Aroclor 1232	< 9.59	ug/Kg, dry	A	
Aroclor 1242	< 9.59	ug/Kg, dry	A		Aroclor 1248	< 9.59	ug/Kg, dry	A	
Aroclor 1254	< 9.59	ug/Kg, dry	A		Aroclor 1260	19.7	ug/Kg, dry	A	
Surrogate-TCMX	84	%	A		Surrogate-DCB	83	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

002 Site: SS-A-2 Sampled: 10/14/14 15:04 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 3.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	35.6	mg/Kg, dry	A		C28-C40 TPH	36.0	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	71.6	mg/Kg, dry	U		Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

002 Site: SS-A-2 Sampled: 10/14/14 15:04 Test Date: 10/15/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 5.55	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 5.55	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

002 Site: SS-A-2 Sampled: 10/14/14 15:04 Test Date: 10/20/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 140	ug/Kg, Dry	N	
Chloromethane	< 84.0	ug/Kg, Dry	A		Vinyl chloride	< 56.0	ug/Kg, Dry	A	
Bromomethane	< 140	ug/Kg, Dry	A		Chloroethane	< 140	ug/Kg, Dry	A	
Trichlorofluoromethane	< 56.0	ug/Kg, Dry	N		Diethyl ether	< 140	ug/Kg, Dry	N	
1,1-Dichloroethene	< 28.0	ug/Kg, Dry	A		Acetone	< 280	ug/Kg, Dry	N	
Carbon disulfide	< 140	ug/Kg, Dry	N		Methylene chloride	< 140	ug/Kg, Dry	A	
t-Butanol	< 560	ug/Kg, Dry	N	QA-	Methyl-t-butyl ether (MTBE)	< 56.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 28.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 56.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 28.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 56.0	ug/Kg, Dry	U	
2-Butanone	< 280	ug/Kg, Dry	A	QA-	2,2-Dichloropropane	< 56.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 28.0	ug/Kg, Dry	N		Bromochloromethane	< 56.0	ug/Kg, Dry	N	
Chloroform	< 28.0	ug/Kg, Dry	A		Tetrahydrofuran	< 280	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 28.0	ug/Kg, Dry	A		Carbon tetrachloride	< 28.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 28.0	ug/Kg, Dry	N		Benzene	< 28.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 56.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 28.0	ug/Kg, Dry	A	
Trichloroethene	< 28.0	ug/Kg, Dry	A		1,2-Dichloropropane	< 56.0	ug/Kg, Dry	A	
Dibromomethane	< 56.0	ug/Kg, Dry	N		Bromodichloromethane	< 28.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 56.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 280	ug/Kg, Dry	N	
Toluene	29.1	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 56.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 28.0	ug/Kg, Dry	A		Tetrachloroethene	< 28.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 28.0	ug/Kg, Dry	N		2-Hexanone	< 280	ug/Kg, Dry	N	
Dibromochloromethane	< 56.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 28.0	ug/Kg, Dry	N	
Chlorobenzene	< 28.0	ug/Kg, Dry	A		Ethylbenzene	< 28.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 56.0	ug/Kg, Dry	N		Xylenes, Total	< 56.0	ug/Kg, Dry	A	
Styrene	< 28.0	ug/Kg, Dry	N		Bromoform	< 56.0	ug/Kg, Dry	A	
Isopropylbenzene	< 28.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 56.0	ug/Kg, Dry	A	
Bromobenzene	< 28.0	ug/Kg, Dry	N		n-Propylbenzene	< 28.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 56.0	ug/Kg, Dry	N		2-Chlorotoluene	< 28.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 28.0	ug/Kg, Dry	A		4-Chlorotoluene	< 28.0	ug/Kg, Dry	N	
t-Butylbenzene	< 28.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	< 28.0	ug/Kg, Dry	A	
s-Butylbenzene	< 28.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 28.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 28.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 28.0	ug/Kg, Dry	A	
n-Butylbenzene	< 56.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 28.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 56.0	ug/Kg, Dry	N	QA-	1,2,4-Trichlorobenzene	< 56.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 56.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 28.0	ug/Kg, Dry	N	
Naphthalene	< 56.0	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 56.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	85	%	U		Surr. 2 (Toluene d8)	94	%	U	
Surr. 3 (4-Bromofluorobenzene)	128	%	U		Unidentified Peaks	1		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

003 Site: SS-A-3 Sampled: 10/14/14 15:08 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 375	ug/Kg, dry	A	
Pyridine	< 375	ug/Kg, dry	A		Aniline	< 375	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 188	ug/Kg, dry	A		1,2-Dichlorobenzene	< 75.0	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 75.0	ug/Kg, dry	A		1,4-Dichlorobenzene	< 75.0	ug/Kg, dry	A	
Benzyl alcohol	< 750	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 375	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 375	ug/Kg, dry	A		Hexachloroethane	< 188	ug/Kg, dry	A	
Nitrobenzene	< 188	ug/Kg, dry	A		N-Nitrosopiperidine	< 375	ug/Kg, dry	N	
Isophorone	< 75.0	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 188	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 75.0	ug/Kg, dry	A		Naphthalene	224	ug/Kg, dry	A	
4-Chloroaniline	< 188	ug/Kg, dry	N		Hexachlorobutadiene	< 188	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 188	ug/Kg, dry	N		2-Methylnaphthalene	136	ug/Kg, dry	A	
1-Methylnaphthalene	111	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 750	ug/Kg, dry	A	
2-Chloronaphthalene	< 75.0	ug/Kg, dry	A		1-Chloronaphthalene	< 75.0	ug/Kg, dry	N	
2-Nitroaniline	< 750	ug/Kg, dry	N		Dimethyl phthalate	< 188	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 188	ug/Kg, dry	A		Acenaphthylene	106	ug/Kg, dry	A	
3-Nitroaniline	< 188	ug/Kg, dry	N		Acenaphthene	182	ug/Kg, dry	A	
Dibenzofuran	229	ug/Kg, dry	N		2,4-Dinitrotoluene	< 188	ug/Kg, dry	N	
1-Naphthylamine	< 375	ug/Kg, dry	N		2-Naphthylamine	< 375	ug/Kg, dry	N	
Fluorene	317	ug/Kg, dry	A		Diethyl phthalate	< 188	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 75.0	ug/Kg, dry	A		4-Nitroaniline	< 750	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 188	ug/Kg, dry	A		Azobenzene	< 188	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 75.0	ug/Kg, dry	A		Hexachlorobenzene	< 188	ug/Kg, dry	A	
Phenanthrene	2,210	ug/Kg, dry	A		Anthracene	1,010	ug/Kg, dry	A	
Carbazole	266	ug/Kg, dry	N		Di-n-butylphthalate	< 375	ug/Kg, dry	A	
Fluoranthene	2,570	ug/Kg, dry	A		Benzidine	< 375	ug/Kg, dry	A	
Pyrene	2,040	ug/Kg, dry	A		Butyl benzyl phthalate	< 188	ug/Kg, dry	A	
Benzo(a)anthracene	1,210	ug/Kg, dry	A		Chrysene	1,250	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 188	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 188	ug/Kg, dry	A	
Di-n-octylphthalate	< 188	ug/Kg, dry	A		Benzo(b)fluoranthene	1,510	ug/Kg, dry	A	
Benzo(k)fluoranthene	581	ug/Kg, dry	A		Benzo(a)pyrene	1,180	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	982	ug/Kg, dry	A		Dibenzo(a,h)anthracene	175	ug/Kg, dry	A	
Benzo(g,h,i)perylene	769	ug/Kg, dry	A		Phenol	< 188	ug/Kg, dry	A	
2-Chlorophenol	< 188	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 188	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 188	ug/Kg, dry	A		Cresols, Total	< 375	ug/Kg, dry	U	
2-Nitrophenol	< 375	ug/Kg, dry	A		2,4-Dimethylphenol	< 188	ug/Kg, dry	A	
2,4-Dichlorophenol	< 188	ug/Kg, dry	A		2,6-Dichlorophenol	< 188	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 375	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 375	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 375	ug/Kg, dry	A		2,4-Dinitrophenol	< 750	ug/Kg, dry	A	
4-Nitrophenol	< 375	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 750	ug/Kg, dry	A	
Pentachlorophenol	< 375	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	1,730	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	64	%	U		B/N Surr.2 2-Fluorobiphenyl	77	%	U	
B/N Surr.3 Terphenyl-d14	100	%	U		Acid Surr.1 2-Fluorophenol	47	%	U	
Acid Surr.2 Phenol-d8	56	%	U		Acid Surr.3 Tribromophenol	96	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

003 Site: SS-A-3 Sampled: 10/14/14 15:08 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.33	ug/Kg, dry	A	
Aroclor 1221	< 9.33	ug/Kg, dry	A		Aroclor 1232	< 9.33	ug/Kg, dry	A	
Aroclor 1242	< 9.33	ug/Kg, dry	A		Aroclor 1248	< 9.33	ug/Kg, dry	A	
Aroclor 1254	< 9.33	ug/Kg, dry	A		Aroclor 1260	88.0	ug/Kg, dry	A	
Surrogate-TCMX	82	%	A		Surrogate-DCB	85	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

003 Site: SS-A-3 Sampled: 10/14/14 15:08 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 6.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	33.7	mg/Kg, dry	A		C28-C40 TPH	52.3	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	86.0	mg/Kg, dry	U	M-	Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

003 Site: SS-A-3 Sampled: 10/14/14 15:08 Test Date: 10/15/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 3.97	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 3.97	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

003 Site: SS-A-3 Sampled: 10/14/14 15:08 Test Date: 10/20/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 100	ug/Kg, Dry	N	
Chloromethane	< 60.0	ug/Kg, Dry	A		Vinyl chloride	< 40.0	ug/Kg, Dry	A	
Bromomethane	< 100	ug/Kg, Dry	A		Chloroethane	< 100	ug/Kg, Dry	A	
Trichlorofluoromethane	< 40.0	ug/Kg, Dry	N		Diethyl ether	< 100	ug/Kg, Dry	N	
1,1-Dichloroethene	< 20.0	ug/Kg, Dry	A		Acetone	< 200	ug/Kg, Dry	N	
Carbon disulfide	< 100	ug/Kg, Dry	N		Methylene chloride	< 100	ug/Kg, Dry	A	
t-Butanol	< 400	ug/Kg, Dry	N	QA-	Methyl-t-butyl ether (MTBE)	< 40.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 20.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 40.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 20.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 40.0	ug/Kg, Dry	U	
2-Butanone	< 200	ug/Kg, Dry	A	QA-	2,2-Dichloropropane	< 40.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 20.0	ug/Kg, Dry	N		Bromochloromethane	< 40.0	ug/Kg, Dry	N	
Chloroform	< 20.0	ug/Kg, Dry	A		Tetrahydrofuran	< 200	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 20.0	ug/Kg, Dry	A		Carbon tetrachloride	< 20.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 20.0	ug/Kg, Dry	N		Benzene	< 20.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 40.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 20.0	ug/Kg, Dry	A	
Trichloroethene	< 20.0	ug/Kg, Dry	A		1,2-Dichloropropane	< 40.0	ug/Kg, Dry	A	
Dibromomethane	< 40.0	ug/Kg, Dry	N		Bromodichloromethane	< 20.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 40.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 200	ug/Kg, Dry	N	
Toluene	< 20.0	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 40.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 20.0	ug/Kg, Dry	A		Tetrachloroethene	< 20.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 20.0	ug/Kg, Dry	N		2-Hexanone	< 200	ug/Kg, Dry	N	
Dibromochloromethane	< 40.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 20.0	ug/Kg, Dry	N	
Chlorobenzene	< 20.0	ug/Kg, Dry	A		Ethylbenzene	< 20.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 40.0	ug/Kg, Dry	N		Xylenes, Total	< 40.0	ug/Kg, Dry	A	
Styrene	< 20.0	ug/Kg, Dry	N		Bromoform	< 40.0	ug/Kg, Dry	A	
Isopropylbenzene	< 20.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 40.0	ug/Kg, Dry	A	
Bromobenzene	< 20.0	ug/Kg, Dry	N		n-Propylbenzene	< 20.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 40.0	ug/Kg, Dry	N		2-Chlorotoluene	< 20.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 20.0	ug/Kg, Dry	A		4-Chlorotoluene	< 20.0	ug/Kg, Dry	N	
t-Butylbenzene	< 20.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	< 20.0	ug/Kg, Dry	A	
s-Butylbenzene	< 20.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 20.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 20.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 20.0	ug/Kg, Dry	A	
n-Butylbenzene	< 40.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 20.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 40.0	ug/Kg, Dry	N	QA-	1,2,4-Trichlorobenzene	< 40.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 40.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 20.0	ug/Kg, Dry	N	
Naphthalene	< 40.0	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 40.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	85	%	U		Surr. 2 (Toluene d8)	94	%	U	
Surr. 3 (4-Bromofluorobenzene)	129	%	U		Unidentified Peaks	1		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

004 Site: SS-A-6 Sampled: 10/14/14 15:12 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 368	ug/Kg, dry	A	
Pyridine	< 368	ug/Kg, dry	A		Aniline	< 368	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 184	ug/Kg, dry	A		1,2-Dichlorobenzene	< 73.6	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 73.6	ug/Kg, dry	A		1,4-Dichlorobenzene	< 73.6	ug/Kg, dry	A	
Benzyl alcohol	< 736	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 368	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 368	ug/Kg, dry	A		Hexachloroethane	< 184	ug/Kg, dry	A	
Nitrobenzene	< 184	ug/Kg, dry	A		N-Nitrosopiperidine	< 368	ug/Kg, dry	N	
Isophorone	< 73.6	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 184	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 73.6	ug/Kg, dry	A		Naphthalene	94.6	ug/Kg, dry	A	
4-Chloroaniline	< 184	ug/Kg, dry	N		Hexachlorobutadiene	< 184	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 184	ug/Kg, dry	N		2-Methylnaphthalene	101	ug/Kg, dry	A	
1-Methylnaphthalene	112	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 736	ug/Kg, dry	A	
2-Chloronaphthalene	< 73.6	ug/Kg, dry	A		1-Chloronaphthalene	< 73.6	ug/Kg, dry	N	
2-Nitroaniline	< 736	ug/Kg, dry	N		Dimethyl phthalate	< 184	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 184	ug/Kg, dry	A		Acenaphthylene	250	ug/Kg, dry	A	
3-Nitroaniline	< 184	ug/Kg, dry	N		Acenaphthene	< 36.8	ug/Kg, dry	A	
Dibenzofuran	< 73.6	ug/Kg, dry	N		2,4-Dinitrotoluene	< 184	ug/Kg, dry	N	
1-Naphthylamine	< 368	ug/Kg, dry	N		2-Naphthylamine	< 368	ug/Kg, dry	N	
Fluorene	< 36.8	ug/Kg, dry	A		Diethyl phthalate	< 184	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 73.6	ug/Kg, dry	A		4-Nitroaniline	< 736	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 184	ug/Kg, dry	A		Azobenzene	< 184	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 73.6	ug/Kg, dry	A		Hexachlorobenzene	< 184	ug/Kg, dry	A	
Phenanthrene	339	ug/Kg, dry	A		Anthracene	176	ug/Kg, dry	A	
Carbazole	< 184	ug/Kg, dry	N		Di-n-butylphthalate	< 368	ug/Kg, dry	A	
Fluoranthene	960	ug/Kg, dry	A		Benzidine	< 368	ug/Kg, dry	A	
Pyrene	940	ug/Kg, dry	A		Butyl benzyl phthalate	< 184	ug/Kg, dry	A	
Benzo(a)anthracene	713	ug/Kg, dry	A		Chrysene	966	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 184	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 184	ug/Kg, dry	A	
Di-n-octylphthalate	< 184	ug/Kg, dry	A		Benzo(b)fluoranthene	1,480	ug/Kg, dry	A	
Benzo(k)fluoranthene	528	ug/Kg, dry	A		Benzo(a)pyrene	790	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	877	ug/Kg, dry	A		Dibenzo(a,h)anthracene	171	ug/Kg, dry	A	
Benzo(g,h,i)perylene	669	ug/Kg, dry	A		Phenol	< 184	ug/Kg, dry	A	
2-Chlorophenol	< 184	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 184	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 184	ug/Kg, dry	A		Cresols, Total	< 368	ug/Kg, dry	U	
2-Nitrophenol	< 368	ug/Kg, dry	A		2,4-Dimethylphenol	< 184	ug/Kg, dry	A	
2,4-Dichlorophenol	< 184	ug/Kg, dry	A		2,6-Dichlorophenol	< 184	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 368	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 368	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 368	ug/Kg, dry	A		2,4-Dinitrophenol	< 736	ug/Kg, dry	A	
4-Nitrophenol	< 368	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 736	ug/Kg, dry	A	
Pentachlorophenol	< 368	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	1,270	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	70	%	U		B/N Surr.2 2-Fluorobiphenyl	79	%	U	
B/N Surr.3 Terphenyl-d14	100	%	U		Acid Surr.1 2-Fluorophenol	51	%	U	
Acid Surr.2 Phenol-d8	59	%	U		Acid Surr.3 Tribromophenol	96	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

004 Site: SS-A-6 Sampled: 10/14/14 15:12 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.19	ug/Kg, dry	A	
Aroclor 1221	< 9.19	ug/Kg, dry	A		Aroclor 1232	< 9.19	ug/Kg, dry	A	
Aroclor 1242	< 9.19	ug/Kg, dry	A		Aroclor 1248	< 9.19	ug/Kg, dry	A	
Aroclor 1254	< 9.19	ug/Kg, dry	A		Aroclor 1260	51.9	ug/Kg, dry	A	
Surrogate-TCMX	79	%	A		Surrogate-DCB	81	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

004 Site: SS-A-6 Sampled: 10/14/14 15:12 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 15.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	75.6	mg/Kg, dry	A		C28-C40 TPH	69.1	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	145	mg/Kg, dry	U		Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

004 Site: SS-A-6 Sampled: 10/14/14 15:12 Test Date: 10/23/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 4.31	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 4.31	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

004 Site: SS-A-6 Sampled: 10/14/14 15:12 Test Date: 10/20/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 110	ug/Kg, Dry	N	
Chloromethane	< 66.0	ug/Kg, Dry	A		Vinyl chloride	< 44.0	ug/Kg, Dry	A	
Bromomethane	< 110	ug/Kg, Dry	A		Chloroethane	< 110	ug/Kg, Dry	A	
Trichlorofluoromethane	< 44.0	ug/Kg, Dry	N		Diethyl ether	< 110	ug/Kg, Dry	N	
1,1-Dichloroethene	< 22.0	ug/Kg, Dry	A		Acetone	< 220	ug/Kg, Dry	N	
Carbon disulfide	< 110	ug/Kg, Dry	N		Methylene chloride	< 110	ug/Kg, Dry	A	
t-Butanol	< 440	ug/Kg, Dry	N	QA-	Methyl-t-butyl ether (MTBE)	< 44.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 22.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 44.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 22.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 44.0	ug/Kg, Dry	U	
2-Butanone	< 220	ug/Kg, Dry	A	QA-	2,2-Dichloropropane	< 44.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 22.0	ug/Kg, Dry	N		Bromochloromethane	< 44.0	ug/Kg, Dry	N	
Chloroform	< 22.0	ug/Kg, Dry	A		Tetrahydrofuran	< 220	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 22.0	ug/Kg, Dry	A		Carbon tetrachloride	< 22.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 22.0	ug/Kg, Dry	N		Benzene	< 22.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 44.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 22.0	ug/Kg, Dry	A	
Trichloroethene	< 22.0	ug/Kg, Dry	A		1,2-Dichloropropane	< 44.0	ug/Kg, Dry	A	
Dibromomethane	< 44.0	ug/Kg, Dry	N		Bromodichloromethane	< 22.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 44.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 220	ug/Kg, Dry	N	
Toluene	47.0	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 44.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 22.0	ug/Kg, Dry	A		Tetrachloroethene	< 22.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 22.0	ug/Kg, Dry	N		2-Hexanone	< 220	ug/Kg, Dry	N	
Dibromochloromethane	< 44.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 22.0	ug/Kg, Dry	N	
Chlorobenzene	< 22.0	ug/Kg, Dry	A		Ethylbenzene	< 22.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 44.0	ug/Kg, Dry	N		Xylenes, Total	139	ug/Kg, Dry	A	
Styrene	< 22.0	ug/Kg, Dry	N		Bromoform	< 44.0	ug/Kg, Dry	A	
Isopropylbenzene	< 22.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 44.0	ug/Kg, Dry	A	
Bromobenzene	< 22.0	ug/Kg, Dry	N		n-Propylbenzene	22.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 44.0	ug/Kg, Dry	N		2-Chlorotoluene	< 22.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	27.2	ug/Kg, Dry	A		4-Chlorotoluene	< 22.0	ug/Kg, Dry	N	
t-Butylbenzene	< 22.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	69.2	ug/Kg, Dry	A	
s-Butylbenzene	< 22.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 22.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 22.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 22.0	ug/Kg, Dry	A	
n-Butylbenzene	< 44.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 22.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 44.0	ug/Kg, Dry	N	QA-	1,2,4-Trichlorobenzene	< 44.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 44.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 22.0	ug/Kg, Dry	N	
Naphthalene	106	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 44.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	88	%	U		Surr. 2 (Toluene d8)	93	%	U	
Surr. 3 (4-Bromofluorobenzene)	129	%	U		Unidentified Peaks	4		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

005 Site: SS-A-7 Sampled: 10/14/14 15:02 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 355	ug/Kg, dry	A	
Pyridine	< 355	ug/Kg, dry	A		Aniline	< 355	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 178	ug/Kg, dry	A		1,2-Dichlorobenzene	< 71.0	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 71.0	ug/Kg, dry	A		1,4-Dichlorobenzene	< 71.0	ug/Kg, dry	A	
Benzyl alcohol	< 710	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 355	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 355	ug/Kg, dry	A		Hexachloroethane	< 178	ug/Kg, dry	A	
Nitrobenzene	< 178	ug/Kg, dry	A		N-Nitrosopiperidine	< 355	ug/Kg, dry	N	
Isophorone	< 71.0	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 178	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 71.0	ug/Kg, dry	A		Naphthalene	< 35.5	ug/Kg, dry	A	
4-Chloroaniline	< 178	ug/Kg, dry	N		Hexachlorobutadiene	< 178	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 178	ug/Kg, dry	N		2-Methylnaphthalene	< 35.5	ug/Kg, dry	A	
1-Methylnaphthalene	< 35.5	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 710	ug/Kg, dry	A	
2-Chloronaphthalene	< 71.0	ug/Kg, dry	A		1-Chloronaphthalene	< 71.0	ug/Kg, dry	N	
2-Nitroaniline	< 710	ug/Kg, dry	N		Dimethyl phthalate	< 178	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 178	ug/Kg, dry	A		Acenaphthylene	57.9	ug/Kg, dry	A	
3-Nitroaniline	< 178	ug/Kg, dry	N		Acenaphthene	< 35.5	ug/Kg, dry	A	
Dibenzofuran	< 71.0	ug/Kg, dry	N		2,4-Dinitrotoluene	< 178	ug/Kg, dry	N	
1-Naphthylamine	< 355	ug/Kg, dry	N		2-Naphthylamine	< 355	ug/Kg, dry	N	
Fluorene	< 35.5	ug/Kg, dry	A		Diethyl phthalate	< 178	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 71.0	ug/Kg, dry	A		4-Nitroaniline	< 710	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 178	ug/Kg, dry	A		Azobenzene	< 178	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 71.0	ug/Kg, dry	A		Hexachlorobenzene	< 178	ug/Kg, dry	A	
Phenanthrene	172	ug/Kg, dry	A		Anthracene	70.6	ug/Kg, dry	A	
Carbazole	< 178	ug/Kg, dry	N		Di-n-butylphthalate	< 355	ug/Kg, dry	A	
Fluoranthene	418	ug/Kg, dry	A		Benzidine	< 355	ug/Kg, dry	A	
Pyrene	391	ug/Kg, dry	A		Butyl benzyl phthalate	< 178	ug/Kg, dry	A	
Benzo(a)anthracene	239	ug/Kg, dry	A		Chrysene	306	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 178	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 178	ug/Kg, dry	A	
Di-n-octylphthalate	< 178	ug/Kg, dry	A		Benzo(b)fluoranthene	450	ug/Kg, dry	A	
Benzo(k)fluoranthene	153	ug/Kg, dry	A		Benzo(a)pyrene	288	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	294	ug/Kg, dry	A		Dibenzo(a,h)anthracene	55.4	ug/Kg, dry	A	
Benzo(g,h,i)perylene	250	ug/Kg, dry	A		Phenol	< 178	ug/Kg, dry	A	
2-Chlorophenol	< 178	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 178	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 178	ug/Kg, dry	A		Cresols, Total	< 355	ug/Kg, dry	U	
2-Nitrophenol	< 355	ug/Kg, dry	A		2,4-Dimethylphenol	< 178	ug/Kg, dry	A	
2,4-Dichlorophenol	< 178	ug/Kg, dry	A		2,6-Dichlorophenol	< 178	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 355	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 355	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 355	ug/Kg, dry	A		2,4-Dinitrophenol	< 710	ug/Kg, dry	A	
4-Nitrophenol	< 355	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 710	ug/Kg, dry	A	
Pentachlorophenol	< 355	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	443	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	63	%	U		B/N Surr.2 2-Fluorobiphenyl	73	%	U	
B/N Surr.3 Terphenyl-d14	97	%	U		Acid Surr.1 2-Fluorophenol	51	%	U	
Acid Surr.2 Phenol-d8	56	%	U		Acid Surr.3 Tribromophenol	94	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

005 Site: SS-A-7 Sampled: 10/14/14 15:02 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 43.6	ug/Kg, dry	A	
Aroclor 1221	< 43.6	ug/Kg, dry	A		Aroclor 1232	< 43.6	ug/Kg, dry	A	
Aroclor 1242	< 43.6	ug/Kg, dry	A		Aroclor 1248	< 43.6	ug/Kg, dry	A	
Aroclor 1254	< 43.6	ug/Kg, dry	A		Aroclor 1260	423	ug/Kg, dry	A	
Surrogate-TCMX	101	%	A		Surrogate-DCB	120	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

005 Site: SS-A-7 Sampled: 10/14/14 15:02 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 15.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	48.8	mg/Kg, dry	A		C28-C40 TPH	49.6	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	98.5	mg/Kg, dry	U		Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

005 Site: SS-A-7 Sampled: 10/14/14 15:02 Test Date: 10/15/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 4.03	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 4.03	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

005 Site: SS-A-7 Sampled: 10/14/14 15:02 Test Date: 10/20/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 100	ug/Kg, Dry	N	
Chloromethane	< 60.0	ug/Kg, Dry	A		Vinyl chloride	< 40.0	ug/Kg, Dry	A	
Bromomethane	< 100	ug/Kg, Dry	A		Chloroethane	< 100	ug/Kg, Dry	A	
Trichlorofluoromethane	< 40.0	ug/Kg, Dry	N		Diethyl ether	< 100	ug/Kg, Dry	N	
1,1-Dichloroethene	< 20.0	ug/Kg, Dry	A		Acetone	< 200	ug/Kg, Dry	N	
Carbon disulfide	< 100	ug/Kg, Dry	N		Methylene chloride	< 100	ug/Kg, Dry	A	
t-Butanol	< 400	ug/Kg, Dry	N	QA-	Methyl-t-butyl ether (MTBE)	< 40.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 20.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 40.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 20.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 40.0	ug/Kg, Dry	U	
2-Butanone	< 200	ug/Kg, Dry	A	QA-	2,2-Dichloropropane	< 40.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 20.0	ug/Kg, Dry	N		Bromochloromethane	< 40.0	ug/Kg, Dry	N	
Chloroform	< 20.0	ug/Kg, Dry	A		Tetrahydrofuran	< 200	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 20.0	ug/Kg, Dry	A		Carbon tetrachloride	< 20.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 20.0	ug/Kg, Dry	N		Benzene	< 20.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 40.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 20.0	ug/Kg, Dry	A	
Trichloroethene	< 20.0	ug/Kg, Dry	A		1,2-Dichloropropane	< 40.0	ug/Kg, Dry	A	
Dibromomethane	< 40.0	ug/Kg, Dry	N		Bromodichloromethane	< 20.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 40.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 200	ug/Kg, Dry	N	
Toluene	< 20.0	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 40.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 20.0	ug/Kg, Dry	A		Tetrachloroethene	< 20.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 20.0	ug/Kg, Dry	N		2-Hexanone	< 200	ug/Kg, Dry	N	
Dibromochloromethane	< 40.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 20.0	ug/Kg, Dry	N	
Chlorobenzene	< 20.0	ug/Kg, Dry	A		Ethylbenzene	< 20.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 40.0	ug/Kg, Dry	N		Xylenes, Total	< 40.0	ug/Kg, Dry	A	
Styrene	< 20.0	ug/Kg, Dry	N		Bromoform	< 40.0	ug/Kg, Dry	A	
Isopropylbenzene	< 20.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 40.0	ug/Kg, Dry	A	
Bromobenzene	< 20.0	ug/Kg, Dry	N		n-Propylbenzene	< 20.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 40.0	ug/Kg, Dry	N		2-Chlorotoluene	< 20.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 20.0	ug/Kg, Dry	A		4-Chlorotoluene	< 20.0	ug/Kg, Dry	N	
t-Butylbenzene	< 20.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	< 20.0	ug/Kg, Dry	A	
s-Butylbenzene	< 20.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 20.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 20.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 20.0	ug/Kg, Dry	A	
n-Butylbenzene	< 40.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 20.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 40.0	ug/Kg, Dry	N	QA-	1,2,4-Trichlorobenzene	< 40.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 40.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 20.0	ug/Kg, Dry	N	
Naphthalene	< 40.0	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 40.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	86	%	U		Surr. 2 (Toluene d8)	94	%	U	
Surr. 3 (4-Bromofluorobenzene)	128	%	U		Unidentified Peaks	1		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

006 Site: SS-A-9 Sampled: 10/14/14 15:06 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 385	ug/Kg, dry	A	
Pyridine	< 385	ug/Kg, dry	A		Aniline	< 385	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 193	ug/Kg, dry	A		1,2-Dichlorobenzene	< 77.0	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 77.0	ug/Kg, dry	A		1,4-Dichlorobenzene	< 77.0	ug/Kg, dry	A	
Benzyl alcohol	< 770	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 385	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 385	ug/Kg, dry	A		Hexachloroethane	< 193	ug/Kg, dry	A	
Nitrobenzene	< 193	ug/Kg, dry	A		N-Nitrosopiperidine	< 385	ug/Kg, dry	N	
Isophorone	< 77.0	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 193	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 77.0	ug/Kg, dry	A		Naphthalene	45.4	ug/Kg, dry	A	
4-Chloroaniline	< 193	ug/Kg, dry	N		Hexachlorobutadiene	< 193	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 193	ug/Kg, dry	N		2-Methylnaphthalene	55.8	ug/Kg, dry	A	
1-Methylnaphthalene	47.4	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 770	ug/Kg, dry	A	
2-Chloronaphthalene	< 77.0	ug/Kg, dry	A		1-Chloronaphthalene	< 77.0	ug/Kg, dry	N	
2-Nitroaniline	< 770	ug/Kg, dry	N		Dimethyl phthalate	< 193	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 193	ug/Kg, dry	A		Acenaphthylene	104	ug/Kg, dry	A	
3-Nitroaniline	< 193	ug/Kg, dry	N		Acenaphthene	< 38.5	ug/Kg, dry	A	
Dibenzofuran	< 77.0	ug/Kg, dry	N		2,4-Dinitrotoluene	< 193	ug/Kg, dry	N	
1-Naphthylamine	< 385	ug/Kg, dry	N		2-Naphthylamine	< 385	ug/Kg, dry	N	
Fluorene	< 38.5	ug/Kg, dry	A		Diethyl phthalate	< 193	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 77.0	ug/Kg, dry	A		4-Nitroaniline	< 770	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 193	ug/Kg, dry	A		Azobenzene	< 193	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 77.0	ug/Kg, dry	A		Hexachlorobenzene	< 193	ug/Kg, dry	A	
Phenanthrene	258	ug/Kg, dry	A		Anthracene	124	ug/Kg, dry	A	
Carbazole	< 193	ug/Kg, dry	N		Di-n-butylphthalate	< 385	ug/Kg, dry	A	
Fluoranthene	783	ug/Kg, dry	A		Benzidine	< 385	ug/Kg, dry	A	
Pyrene	761	ug/Kg, dry	A		Butyl benzyl phthalate	< 193	ug/Kg, dry	A	
Benzo(a)anthracene	470	ug/Kg, dry	A		Chrysene	625	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 193	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 193	ug/Kg, dry	A	
Di-n-octylphthalate	< 193	ug/Kg, dry	A		Benzo(b)fluoranthene	947	ug/Kg, dry	A	
Benzo(k)fluoranthene	340	ug/Kg, dry	A		Benzo(a)pyrene	571	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	563	ug/Kg, dry	A		Dibenzo(a,h)anthracene	106	ug/Kg, dry	A	
Benzo(g,h,i)perylene	446	ug/Kg, dry	A		Phenol	< 193	ug/Kg, dry	A	
2-Chlorophenol	< 193	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 193	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 193	ug/Kg, dry	A		Cresols, Total	< 385	ug/Kg, dry	U	
2-Nitrophenol	< 385	ug/Kg, dry	A		2,4-Dimethylphenol	< 193	ug/Kg, dry	A	
2,4-Dichlorophenol	< 193	ug/Kg, dry	A		2,6-Dichlorophenol	< 193	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 385	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 385	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 385	ug/Kg, dry	A		2,4-Dinitrophenol	< 770	ug/Kg, dry	A	
4-Nitrophenol	< 385	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 770	ug/Kg, dry	A	
Pentachlorophenol	< 385	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	879	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	67	%	U		B/N Surr.2 2-Fluorobiphenyl	80	%	U	
B/N Surr.3 Terphenyl-d14	98	%	U		Acid Surr.1 2-Fluorophenol	53	%	U	
Acid Surr.2 Phenol-d8	60	%	U		Acid Surr.3 Tribromophenol	103	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

006 Site: SS-A-9 Sampled: 10/14/14 15:06 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.70	ug/Kg, dry	A	
Aroclor 1221	< 9.70	ug/Kg, dry	A		Aroclor 1232	< 9.70	ug/Kg, dry	A	
Aroclor 1242	< 9.70	ug/Kg, dry	A		Aroclor 1248	< 9.70	ug/Kg, dry	A	
Aroclor 1254	< 9.70	ug/Kg, dry	A		Aroclor 1260	< 9.70	ug/Kg, dry	A	
Surrogate-TCMX	79	%	A		Surrogate-DCB	77	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

006 Site: SS-A-9 Sampled: 10/14/14 15:06 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 15.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	41.9	mg/Kg, dry	A		C28-C40 TPH	55.3	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	97.3	mg/Kg, dry	U		Hydrocarbon Window	C14-C36		U	

TEST METHOD: EPA 8260C

006 Site: SS-A-9 Sampled: 10/14/14 15:06 Test Date: 10/15/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 4.95	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	< 4.95	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

006 Site: SS-A-9 Sampled: 10/14/14 15:06 Test Date: 10/23/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 125	ug/Kg, Dry	N	
Chloromethane	< 75.0	ug/Kg, Dry	A		Vinyl chloride	< 50.0	ug/Kg, Dry	A	M-
Bromomethane	< 125	ug/Kg, Dry	A	M-	Chloroethane	< 125	ug/Kg, Dry	A	
Trichlorofluoromethane	< 50.0	ug/Kg, Dry	N		Diethyl ether	< 125	ug/Kg, Dry	N	
1,1-Dichloroethene	< 25.0	ug/Kg, Dry	A		Acetone	< 250	ug/Kg, Dry	N	
Carbon disulfide	< 125	ug/Kg, Dry	N		Methylene chloride	< 125	ug/Kg, Dry	A	
t-Butanol	< 500	ug/Kg, Dry	N		Methyl-t-butyl ether (MTBE)	< 50.0	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 25.0	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 50.0	ug/Kg, Dry	U	
1,1-Dichloroethane	< 25.0	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 50.0	ug/Kg, Dry	U	
2-Butanone	< 250	ug/Kg, Dry	A		2,2-Dichloropropane	< 50.0	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 25.0	ug/Kg, Dry	N		Bromochloromethane	< 50.0	ug/Kg, Dry	N	
Chloroform	< 25.0	ug/Kg, Dry	A		Tetrahydrofuran	< 250	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 25.0	ug/Kg, Dry	A		Carbon tetrachloride	< 25.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 25.0	ug/Kg, Dry	N		Benzene	< 25.0	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 50.0	ug/Kg, Dry	U		1,2-Dichloroethane	< 25.0	ug/Kg, Dry	A	
Trichloroethene	< 25.0	ug/Kg, Dry	A		1,2-Dichloropropane	< 50.0	ug/Kg, Dry	A	
Dibromomethane	< 50.0	ug/Kg, Dry	N		Bromodichloromethane	< 25.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 25.0	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 250	ug/Kg, Dry	N	
Toluene	36.6	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 50.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 25.0	ug/Kg, Dry	A		Tetrachloroethene	< 25.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 25.0	ug/Kg, Dry	N		2-Hexanone	< 250	ug/Kg, Dry	N	
Dibromochloromethane	< 50.0	ug/Kg, Dry	A		1,2-Dibromoethane	< 25.0	ug/Kg, Dry	N	
Chlorobenzene	< 25.0	ug/Kg, Dry	A		Ethylbenzene	< 25.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 50.0	ug/Kg, Dry	N		Xylenes, Total	< 50.0	ug/Kg, Dry	A	
Styrene	< 25.0	ug/Kg, Dry	N		Bromoform	< 50.0	ug/Kg, Dry	A	
Isopropylbenzene	< 25.0	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 50.0	ug/Kg, Dry	A	
Bromobenzene	< 25.0	ug/Kg, Dry	N		n-Propylbenzene	< 25.0	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 50.0	ug/Kg, Dry	N		2-Chlorotoluene	< 25.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 25.0	ug/Kg, Dry	A		4-Chlorotoluene	< 25.0	ug/Kg, Dry	N	
t-Butylbenzene	< 25.0	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	< 25.0	ug/Kg, Dry	A	
s-Butylbenzene	< 25.0	ug/Kg, Dry	A		4-Isopropyltoluene	< 25.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 25.0	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 25.0	ug/Kg, Dry	A	
n-Butylbenzene	< 50.0	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 25.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 50.0	ug/Kg, Dry	N		1,2,4-Trichlorobenzene	< 50.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 50.0	ug/Kg, Dry	N		Hexachlorobutadiene	< 25.0	ug/Kg, Dry	N	
Naphthalene	95.3	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 50.0	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	107	%	U		Surr. 2 (Toluene d8)	97	%	U	
Surr. 3 (4-Bromofluorobenzene)	89	%	U		Unidentified Peaks	2		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

007 Site: SS-B-1 Sampled: 10/14/14 16:00 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 368	ug/Kg, dry	A	
Pyridine	< 368	ug/Kg, dry	A		Aniline	< 368	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 184	ug/Kg, dry	A		1,2-Dichlorobenzene	< 73.6	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 73.6	ug/Kg, dry	A		1,4-Dichlorobenzene	< 73.6	ug/Kg, dry	A	
Benzyl alcohol	< 736	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 368	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 368	ug/Kg, dry	A		Hexachloroethane	< 184	ug/Kg, dry	A	
Nitrobenzene	< 184	ug/Kg, dry	A		N-Nitrosopiperidine	< 368	ug/Kg, dry	N	
Isophorone	< 73.6	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 184	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 73.6	ug/Kg, dry	A		Naphthalene	259	ug/Kg, dry	A	
4-Chloroaniline	< 184	ug/Kg, dry	N		Hexachlorobutadiene	< 184	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 184	ug/Kg, dry	N		2-Methylnaphthalene	952	ug/Kg, dry	A	
1-Methylnaphthalene	1,910	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 736	ug/Kg, dry	A	
2-Chloronaphthalene	< 73.6	ug/Kg, dry	A		1-Chloronaphthalene	< 73.6	ug/Kg, dry	N	
2-Nitroaniline	< 736	ug/Kg, dry	N		Dimethyl phthalate	< 184	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 184	ug/Kg, dry	A		Acenaphthylene	187	ug/Kg, dry	A	
3-Nitroaniline	< 184	ug/Kg, dry	N		Acenaphthene	55.9	ug/Kg, dry	A	
Dibenzofuran	120	ug/Kg, dry	N		2,4-Dinitrotoluene	< 184	ug/Kg, dry	N	
1-Naphthylamine	< 368	ug/Kg, dry	N		2-Naphthylamine	< 368	ug/Kg, dry	N	
Fluorene	137	ug/Kg, dry	A		Diethyl phthalate	< 184	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 73.6	ug/Kg, dry	A		4-Nitroaniline	< 736	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 184	ug/Kg, dry	A		Azobenzene	< 184	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 73.6	ug/Kg, dry	A		Hexachlorobenzene	< 184	ug/Kg, dry	A	
Phenanthrene	281	ug/Kg, dry	A		Anthracene	112	ug/Kg, dry	A	
Carbazole	< 184	ug/Kg, dry	N		Di-n-butylphthalate	< 368	ug/Kg, dry	A	
Fluoranthene	637	ug/Kg, dry	A		Benzidine	< 368	ug/Kg, dry	A	
Pyrene	584	ug/Kg, dry	A		Butyl benzyl phthalate	< 184	ug/Kg, dry	A	
Benzo(a)anthracene	436	ug/Kg, dry	A		Chrysene	483	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 184	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 184	ug/Kg, dry	A	
Di-n-octylphthalate	< 184	ug/Kg, dry	A		Benzo(b)fluoranthene	729	ug/Kg, dry	A	
Benzo(k)fluoranthene	271	ug/Kg, dry	A		Benzo(a)pyrene	466	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	458	ug/Kg, dry	A		Dibenzo(a,h)anthracene	89.0	ug/Kg, dry	A	
Benzo(g,h,i)perylene	354	ug/Kg, dry	A		Phenol	< 184	ug/Kg, dry	A	
2-Chlorophenol	< 184	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 184	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 184	ug/Kg, dry	A		Cresols, Total	< 368	ug/Kg, dry	U	
2-Nitrophenol	< 368	ug/Kg, dry	A		2,4-Dimethylphenol	< 184	ug/Kg, dry	A	
2,4-Dichlorophenol	< 184	ug/Kg, dry	A		2,6-Dichlorophenol	< 184	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 368	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 368	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 368	ug/Kg, dry	A		2,4-Dinitrophenol	< 736	ug/Kg, dry	A	
4-Nitrophenol	< 368	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 736	ug/Kg, dry	A	
Pentachlorophenol	< 368	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	721	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	82	%	U		B/N Surr.2 2-Fluorobiphenyl	74	%	U	
B/N Surr.3 Terphenyl-d14	98	%	U		Acid Surr.1 2-Fluorophenol	57	%	U	
Acid Surr.2 Phenol-d8	60	%	U		Acid Surr.3 Tribromophenol	99	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

007 Site: SS-B-1 Sampled: 10/14/14 16:00 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.10	ug/Kg, dry	A	
Aroclor 1221	< 9.10	ug/Kg, dry	A		Aroclor 1232	< 9.10	ug/Kg, dry	A	
Aroclor 1242	< 9.10	ug/Kg, dry	A		Aroclor 1248	< 9.10	ug/Kg, dry	A	
Aroclor 1254	< 9.10	ug/Kg, dry	A		Aroclor 1260	11.4	ug/Kg, dry	A	
Surrogate-TCMX	90	%	A		Surrogate-DCB	93	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

007 Site: SS-B-1 Sampled: 10/14/14 16:00 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 60.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	1,220	mg/Kg, dry	A		C28-C40 TPH	74.9	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	1,290	mg/Kg, dry	U		Hydrocarbon Window	C10-C34		U	

TEST METHOD: EPA 8260C

007 Site: SS-B-1 Sampled: 10/14/14 16:00 Test Date: 10/23/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 46.3	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	298	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

007 Site: SS-B-1 Sampled: 10/14/14 16:00 Test Date: 10/23/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 1,150	ug/Kg, Dry	N	
Chloromethane	< 690	ug/Kg, Dry	A		Vinyl chloride	< 460	ug/Kg, Dry	A	
Bromomethane	< 1,150	ug/Kg, Dry	A		Chloroethane	< 1,150	ug/Kg, Dry	A	
Trichlorofluoromethane	< 460	ug/Kg, Dry	N		Diethyl ether	< 1,150	ug/Kg, Dry	N	
1,1-Dichloroethene	< 230	ug/Kg, Dry	A		Acetone	< 2,300	ug/Kg, Dry	N	
Carbon disulfide	< 1,150	ug/Kg, Dry	N		Methylene chloride	< 1,150	ug/Kg, Dry	A	
t-Butanol	< 4,600	ug/Kg, Dry	N		Methyl-t-butyl ether (MTBE)	< 460	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 230	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 460	ug/Kg, Dry	U	
1,1-Dichloroethane	< 230	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 460	ug/Kg, Dry	U	
2-Butanone	< 2,300	ug/Kg, Dry	A		2,2-Dichloropropane	< 460	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 230	ug/Kg, Dry	N		Bromochloromethane	< 460	ug/Kg, Dry	N	
Chloroform	< 230	ug/Kg, Dry	A		Tetrahydrofuran	< 2,300	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 230	ug/Kg, Dry	A		Carbon tetrachloride	< 230	ug/Kg, Dry	A	
1,1-Dichloropropene	< 230	ug/Kg, Dry	N		Benzene	< 230	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 460	ug/Kg, Dry	U		1,2-Dichloroethane	< 230	ug/Kg, Dry	A	
Trichloroethene	< 230	ug/Kg, Dry	A		1,2-Dichloropropane	< 460	ug/Kg, Dry	A	
Dibromomethane	< 460	ug/Kg, Dry	N		Bromodichloromethane	< 230	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 230	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 2,300	ug/Kg, Dry	N	
Toluene	< 230	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 460	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 230	ug/Kg, Dry	A		Tetrachloroethene	< 230	ug/Kg, Dry	A	
1,3-Dichloropropane	< 230	ug/Kg, Dry	N		2-Hexanone	< 2,300	ug/Kg, Dry	N	
Dibromochloromethane	< 460	ug/Kg, Dry	A		1,2-Dibromoethane	< 230	ug/Kg, Dry	N	
Chlorobenzene	< 230	ug/Kg, Dry	A		Ethylbenzene	< 230	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 460	ug/Kg, Dry	N		Xylenes, Total	373	ug/Kg, Dry	A	
Styrene	< 230	ug/Kg, Dry	N		Bromoform	< 460	ug/Kg, Dry	A	
Isopropylbenzene	< 230	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 460	ug/Kg, Dry	A	
Bromobenzene	< 230	ug/Kg, Dry	N		n-Propylbenzene	593	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 460	ug/Kg, Dry	N		2-Chlorotoluene	< 230	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 230	ug/Kg, Dry	A		4-Chlorotoluene	< 230	ug/Kg, Dry	N	
t-Butylbenzene	< 230	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	3,700	ug/Kg, Dry	A	
s-Butylbenzene	306	ug/Kg, Dry	A		4-Isopropyltoluene	< 230	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 230	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 230	ug/Kg, Dry	A	
n-Butylbenzene	739	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 230	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 460	ug/Kg, Dry	N		1,2,4-Trichlorobenzene	< 460	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 460	ug/Kg, Dry	N		Hexachlorobutadiene	< 230	ug/Kg, Dry	N	
Naphthalene	2,920	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 460	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	96	%	U		Surr. 2 (Toluene d8)	97	%	U	
Surr. 3 (4-Bromofluorobenzene)	100	%	U		Unidentified Peaks	>10		U	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8270D

008 Site: SS-C-1 Sampled: 10/14/14 16:05 Test Date: 10/22/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		N-Nitrosodimethylamine	< 371	ug/Kg, dry	A	
Pyridine	< 371	ug/Kg, dry	A		Aniline	< 371	ug/Kg, dry	N	
Bis(2-chloroethyl)ether	< 186	ug/Kg, dry	A		1,2-Dichlorobenzene	< 74.2	ug/Kg, dry	A	
1,3-Dichlorobenzene	< 74.2	ug/Kg, dry	A		1,4-Dichlorobenzene	< 74.2	ug/Kg, dry	A	
Benzyl alcohol	< 742	ug/Kg, dry	N		Bis(2-chloroisopropyl)ether	< 371	ug/Kg, dry	A	
N-Nitrosodi-n-propylamine	< 371	ug/Kg, dry	A		Hexachloroethane	< 186	ug/Kg, dry	A	
Nitrobenzene	< 186	ug/Kg, dry	A		N-Nitrosopiperidine	< 371	ug/Kg, dry	N	
Isophorone	< 74.2	ug/Kg, dry	A		Bis(2-chloroethoxy)methane	< 186	ug/Kg, dry	A	
1,2,4-Trichlorobenzene	< 74.2	ug/Kg, dry	A		Naphthalene	20,700	ug/Kg, dry	A	
4-Chloroaniline	< 186	ug/Kg, dry	N		Hexachlorobutadiene	< 186	ug/Kg, dry	A	
N-Nitrosodi-n-butylamine	< 186	ug/Kg, dry	N		2-Methylnaphthalene	9,240	ug/Kg, dry	A	
1-Methylnaphthalene	8,420	ug/Kg, dry	U		Hexachlorocyclopentadiene	< 742	ug/Kg, dry	A	
2-Chloronaphthalene	< 74.2	ug/Kg, dry	A		1-Chloronaphthalene	< 74.2	ug/Kg, dry	N	
2-Nitroaniline	< 742	ug/Kg, dry	N		Dimethyl phthalate	< 186	ug/Kg, dry	A	
2,6-Dinitrotoluene	< 186	ug/Kg, dry	A		Acenaphthylene	1,390	ug/Kg, dry	A	
3-Nitroaniline	< 186	ug/Kg, dry	N		Acenaphthene	16,800	ug/Kg, dry	A	
Dibenzofuran	13,000	ug/Kg, dry	N		2,4-Dinitrotoluene	< 186	ug/Kg, dry	N	
1-Naphthylamine	< 371	ug/Kg, dry	N		2-Naphthylamine	< 371	ug/Kg, dry	N	
Fluorene	19,000	ug/Kg, dry	A		Diethyl phthalate	< 186	ug/Kg, dry	A	
4-Chlorophenyl phenyl ether	< 74.2	ug/Kg, dry	A		4-Nitroaniline	< 742	ug/Kg, dry	N	
N-Nitrosodiphenylamine	< 186	ug/Kg, dry	A		Azobenzene	< 186	ug/Kg, dry	U	
4-Bromophenyl phenyl ether	< 74.2	ug/Kg, dry	A		Hexachlorobenzene	< 186	ug/Kg, dry	A	
Phenanthrene	56,300	ug/Kg, dry	A		Anthracene	16,500	ug/Kg, dry	A	
Carbazole	3,860	ug/Kg, dry	N		Di-n-butylphthalate	< 371	ug/Kg, dry	A	
Fluoranthene	38,900	ug/Kg, dry	A		Benzidine	< 371	ug/Kg, dry	A	
Pyrene	27,600	ug/Kg, dry	A		Butyl benzyl phthalate	< 186	ug/Kg, dry	A	
Benzo(a)anthracene	10,600	ug/Kg, dry	A		Chrysene	14,500	ug/Kg, dry	A	
3,3'-Dichlorobenzidine	< 186	ug/Kg, dry	A		Bis(2-ethylhexyl)phthalate	< 186	ug/Kg, dry	A	
Di-n-octylphthalate	< 186	ug/Kg, dry	A		Benzo(b)fluoranthene	12,400	ug/Kg, dry	A	
Benzo(k)fluoranthene	4,600	ug/Kg, dry	A		Benzo(a)pyrene	7,080	ug/Kg, dry	A	
Indeno(1,2,3-cd)pyrene	5,550	ug/Kg, dry	A		Dibenzo(a,h)anthracene	1,090	ug/Kg, dry	A	
Benzo(g,h,i)perylene	4,170	ug/Kg, dry	A		Phenol	< 186	ug/Kg, dry	A	
2-Chlorophenol	< 186	ug/Kg, dry	A		2-Methylphenol (o-cresol)	< 186	ug/Kg, dry	A	
3&4-Methylphenol (m&p-cresol)	< 186	ug/Kg, dry	A		Cresols, Total	< 371	ug/Kg, dry	U	
2-Nitrophenol	< 371	ug/Kg, dry	A		2,4-Dimethylphenol	< 186	ug/Kg, dry	A	
2,4-Dichlorophenol	< 186	ug/Kg, dry	A		2,6-Dichlorophenol	< 186	ug/Kg, dry	N	
4-Chloro-3-methylphenol	< 371	ug/Kg, dry	A		2,4,5-Trichlorophenol	< 371	ug/Kg, dry	A	
2,4,6-Trichlorophenol	< 371	ug/Kg, dry	A		2,4-Dinitrophenol	< 742	ug/Kg, dry	A	
4-Nitrophenol	< 371	ug/Kg, dry	A		4,6-Dinitro-2-methylphenol	< 742	ug/Kg, dry	A	
Pentachlorophenol	< 371	ug/Kg, dry	A		BaP Toxic Equiv. Quotient	11,100	ug/Kg, dry	U	
B/N Surr.1 Nitrobenzene-d5	69	%	U		B/N Surr.2 2-Fluorobiphenyl	79	%	U	
B/N Surr.3 Terphenyl-d14	103	%	U		Acid Surr.1 2-Fluorophenol	45	%	U	
Acid Surr.2 Phenol-d8	49	%	U		Acid Surr.3 Tribromophenol	103	%	U	
Unidentified Peaks	> 10		U						

TEST METHOD: EPA 8082A

008 Site: SS-C-1 Sampled: 10/14/14 16:05 Test Date: 10/23/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		Aroclor 1016	< 9.17	ug/Kg, dry	A	
Aroclor 1221	< 9.17	ug/Kg, dry	A		Aroclor 1232	< 9.17	ug/Kg, dry	A	
Aroclor 1242	< 9.17	ug/Kg, dry	A		Aroclor 1248	< 9.17	ug/Kg, dry	A	
Aroclor 1254	< 9.17	ug/Kg, dry	A		Aroclor 1260	15.7	ug/Kg, dry	A	
Surrogate-TCMX	109	%	A		Surrogate-DCB	84	%	A	

Laboratory Report

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

TEST METHOD: EPA 8015D

008 Site: SS-C-1 Sampled: 10/14/14 16:05 Test Date: 10/24/14 W FAA

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Ultrasonic Extraction	Completed		A		C7-C10 TPH	< 60.0	mg/Kg, dry	U	
C10-C28 TPH-DRO	374	mg/Kg, dry	A		C28-C40 TPH	274	mg/Kg, dry	U	
Tot. Petroleum Hydrocarbons	648	mg/Kg, dry	U		Hydrocarbon Window	C12-C36		U	

TEST METHOD: EPA 8260C

008 Site: SS-C-1 Sampled: 10/14/14 16:05 Test Date: 10/23/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		C5-C10 TPH GRO	< 20.5	mg/Kg, dry	A	
> C10 Volatile Hydrocarbons	64.8	mg/Kg, dry	U						

TEST METHOD: EPA 8260C

008 Site: SS-C-1 Sampled: 10/14/14 16:05 Test Date: 10/27/14 W SJM

Parameter	Result	Unit	Nelac	Qual	Parameter	Result	Unit	Nelac	Qual
Prep EPA 5035A High Level	Complete		A		Dichlorodifluoromethane	< 5,150	ug/Kg, Dry	N	
Chloromethane	< 3,090	ug/Kg, Dry	A		Vinyl chloride	< 2,060	ug/Kg, Dry	A	
Bromomethane	< 5,150	ug/Kg, Dry	A	QA-	Chloroethane	< 5,150	ug/Kg, Dry	A	
Trichlorofluoromethane	< 2,060	ug/Kg, Dry	N		Diethyl ether	< 5,150	ug/Kg, Dry	N	
1,1-Dichloroethene	< 1,030	ug/Kg, Dry	A		Acetone	< 10,300	ug/Kg, Dry	N	
Carbon disulfide	< 5,150	ug/Kg, Dry	N		Methylene chloride	< 5,150	ug/Kg, Dry	A	
t-Butanol	< 20,600	ug/Kg, Dry	N		Methyl-t-butyl ether (MTBE)	< 2,060	ug/Kg, Dry	A	
trans-1,2-Dichloroethene	< 1,030	ug/Kg, Dry	A		Di-isopropyl ether (DIPE)	< 2,060	ug/Kg, Dry	U	
1,1-Dichloroethane	< 1,030	ug/Kg, Dry	A		Ethyl-t-butyl ether (ETBE)	< 2,060	ug/Kg, Dry	U	
2-Butanone	< 10,300	ug/Kg, Dry	A		2,2-Dichloropropane	< 2,060	ug/Kg, Dry	N	
cis-1,2-Dichloroethene	< 1,030	ug/Kg, Dry	N		Bromochloromethane	< 2,060	ug/Kg, Dry	N	
Chloroform	< 1,030	ug/Kg, Dry	A		Tetrahydrofuran	< 10,300	ug/Kg, Dry	U	
1,1,1-Trichloroethane	< 1,030	ug/Kg, Dry	A		Carbon tetrachloride	< 1,030	ug/Kg, Dry	A	
1,1-Dichloropropene	< 1,030	ug/Kg, Dry	N		Benzene	< 1,030	ug/Kg, Dry	A	
t-Amylmethyl ether (TAME)	< 2,060	ug/Kg, Dry	U		1,2-Dichloroethane	< 1,030	ug/Kg, Dry	A	
Trichloroethene	< 1,030	ug/Kg, Dry	A		1,2-Dichloropropane	< 2,060	ug/Kg, Dry	A	
Dibromomethane	< 2,060	ug/Kg, Dry	N		Bromodichloromethane	< 1,030	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 1,030	ug/Kg, Dry	A		4-Methyl-2-pentanone (MIBK)	< 10,300	ug/Kg, Dry	N	
Toluene	< 1,030	ug/Kg, Dry	A		trans-1,3-Dichloropropene	< 2,060	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 1,030	ug/Kg, Dry	A		Tetrachloroethene	< 1,030	ug/Kg, Dry	A	
1,3-Dichloropropane	< 1,030	ug/Kg, Dry	N		2-Hexanone	< 10,300	ug/Kg, Dry	N	
Dibromochloromethane	< 2,060	ug/Kg, Dry	A		1,2-Dibromoethane	< 1,030	ug/Kg, Dry	N	
Chlorobenzene	< 1,030	ug/Kg, Dry	A		Ethylbenzene	< 1,030	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 2,060	ug/Kg, Dry	N		Xylenes, Total	< 2,060	ug/Kg, Dry	A	
Styrene	< 1,030	ug/Kg, Dry	N		Bromoform	< 2,060	ug/Kg, Dry	A	
Isopropylbenzene	< 1,030	ug/Kg, Dry	A		1,1,2,2-Tetrachloroethane	< 2,060	ug/Kg, Dry	A	
Bromobenzene	< 1,030	ug/Kg, Dry	N		n-Propylbenzene	< 1,030	ug/Kg, Dry	A	
1,2,3-Trichloropropane	< 2,060	ug/Kg, Dry	N		2-Chlorotoluene	< 1,030	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 1,030	ug/Kg, Dry	A		4-Chlorotoluene	< 1,030	ug/Kg, Dry	N	
t-Butylbenzene	< 1,030	ug/Kg, Dry	A		1,2,4-Trimethylbenzene	< 1,030	ug/Kg, Dry	A	
s-Butylbenzene	< 1,030	ug/Kg, Dry	A		4-Isopropyltoluene	< 1,030	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 1,030	ug/Kg, Dry	A		1,4-Dichlorobenzene	< 1,030	ug/Kg, Dry	A	
n-Butylbenzene	< 2,060	ug/Kg, Dry	A		1,2-Dichlorobenzene	< 1,030	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 2,060	ug/Kg, Dry	N		1,2,4-Trichlorobenzene	< 2,060	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 2,060	ug/Kg, Dry	N		Hexachlorobutadiene	< 1,030	ug/Kg, Dry	N	
Naphthalene	34,300	ug/Kg, Dry	A		1,2,3-Trichlorobenzene	< 2,060	ug/Kg, Dry	N	
Surr. 1 (Dibromofluoromethane)	97	%	U		Surr. 2 (Toluene d8)	96	%	U	
Surr. 3 (4-Bromofluorobenzene)	91	%	U		Unidentified Peaks	> 10		U	

CLIENT: Vanasse Hangen Brustlin, Inc.
PROJECT: Burlington Bike Path - Rev. 2
REPORT DATE: 11/10/2014

WORK ORDER: **1410-21517**
DATE RECEIVED: 10/15/2014

Report Summary of Qualifiers and Notes

GRO values are based on the response and calibration of Unleaded Gasoline.

DRO values are based on the response and calibration of Diesel/#2 Fuel Oil.

QA-: QA/QC associated with this analysis did not meet laboratory acceptance limits indicating the results may be biased low.

SBP: Analysis performed by subcontracted laboratory, Phoenix Environmental Laboratories, ELAP#11301. Results are presented here for your convenience. Refer to the complete subcontracted report, which has been appended to this report, for detailed information regarding this result.

RPD: The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

M+: The laboratory fortified matrix (LFM) analysis indicates a potential positive bias in the reported value.

M-: The laboratory fortified matrix (LFM) analysis indicates a potential negative bias in the reported value.

J: Reported value has a higher level of uncertainty. Parameter was detected above the Method Detection Limit but below the lowest point in the calibration. A value above the MDL has a 99% confidenmce that the concentration of the parameter in the sample is greater than zero.

Report revised to add TCLP Lead to samples -01 to -06, & -08.

Rev. 2: Report revised to provide a lower value for the Arsenic result below the calibration range at the client's request.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, October 21, 2014

Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Project ID: 1410-21517-W
Sample ID#s: BH28748 - BH28755

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:00
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28748

Project ID: 1410-21517-W
Client ID: 001 SS-A-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.3	5.3	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:04
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28749

Project ID: 1410-21517-W
Client ID: 002 SS-A-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	88		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.6	5.6	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:08
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28750

Project ID: 1410-21517-W
Client ID: 003 SS-A-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.3	5.3	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:12
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28751

Project ID: 1410-21517-W
Client ID: 004 SS-A-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.5	5.5	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:02
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28752

Project ID: 1410-21517-W
Client ID: 005 SS-A-7

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.4	5.4	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	15:06
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28753

Project ID: 1410-21517-W
Client ID: 006 SS-A-9

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.1	5.1	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	16:00
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28754

Project ID: 1410-21517-W
Client ID: 007 SS-B-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	89		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.3	5.3	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 21, 2014

FOR: Attn:Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/14/14	16:05
Location Code:	END-WIL	Received by:	LK	10/17/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH28748
Phoenix ID: BH28755

Project ID: 1410-21517-W
Client ID: 008-SS-C-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	10/17/14 18:52	I	E160.3
Reactivity Cyanide	< 5.8	5.8	mg/Kg	10/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	10/20/14 13:36	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	10/20/14 13:37	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 21, 2014

QA/QC Data

SDG I.D.: GBH28748

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 289707, QC Sample No: BH29151 (BH28748, BH28749, BH28750, BH28751, BH28752, BH28753, BH28754, BH28755)												
Reactivity Cyanide	BRL	<5.5	<5.6	NC	98.2			84.1			85 - 115	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 21, 2014

Tuesday, October 21, 2014

Criteria: None

State: VT

Sample Criteria Exceedences Report

GBH28748 - END-WIL

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

30 wk 1P

Chain of Custody

Phoenix Environmental Labo
567 East Middle Turnpike
Manchester CT 6040
Ph 860-645-8726

STATE OF ORIGIN: Vermont

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at(802) 879-4333 ext 301. Thank you.

Copy of Report To		Billing Information		Project Information
CUSTOMER:	Endyne, Inc.	BILL TO:	Endyne, Inc.	1410-21517-w
ADDRESS:	160 James Brown Drive	ADDRESS:	160 James Brown Drive	TURN AROUND TIME:
	Williston, VT 05495		Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION:	Eileen Toomey	ATTENTION:	Reporting	
E-MAIL:	etoomey@endynelabs.com	E-MAIL:	mfausel@endynelabs.com	
PHONE:	(802) 879-4333 x 300	PHONE: 802-879-4333 x 308		

Analysis Requested: **Reactivity Package**

Reactivity Package

Reactivity Package

Sample Identification					Matrix	DT TM Sampled	
1410-21517	001	SS-A-1	28748	006		10/14/14	15:00
1410-21517	002	SS-A-2	28749	006		10/14/14	15:04
1410-21517	003	SS-A-3	28750	006		10/14/14	15:08
1410-21517	004	SS-A-6	28751	006		10/14/14	15:12
1410-21517	005	SS-A-7	28752	006		10/14/14	15:02
1410-21517	006	SS-A-9	28753	006		10/14/14	15:06
1410-21517	007	SS-B-1	28754	006		10/14/14	16:00
1410-21517	008	SS-C-1	28755	006		10/14/14	16:05

Relinquished by: (Sign, Date, Time) 10/16/14 UPS

Received by: (Sign, Date, Time) 10/17/14 10:49

Mark Fausel

From: Lomonaco, Rachel [RLomonaco@VHB.com]
Sent: Tuesday, October 28, 2014 12:26
To: eepvt@aol.com; MFausel@EndyneLabs.com; Lee, Lydia
Cc: Perry, Meddie
Subject: RE: Any thoughts on the remiaining Bike Path samples?

ATT00278.htm

Ernie and Mark,

We will not need the remaining 8 samples run. However, please go ahead with the TCLP lead analysis for the samples we already have preliminary results for.

When could the Total and TCLP reports be completed by?

Thank you!
Rachel Lomonaco
Water Resources Scientist
802.497.6133
rlomonaco@vhb.com<mailto:RLomonaco@vhb.com>

www.vhb.com<http://www.vhb.com>
From: eepvt@aol.com [mailto:eepvt@aol.com]
Sent: Monday, October 27, 2014 9:25 AM
To: MFausel@EndyneLabs.com; Lomonaco, Rachel; Lee, Lydia
Cc: Perry, Meddie
Subject: Re: Any thoughts on the remiaining Bike Path samples?

All,

With the initial 8 samples for the Burlington Bike Path project, the only remaining analysis is the 8260C on samples 006 and 008. They are being reanalyzed for data quality issues and should be completed by noon today. Sample 008 had significant interference that degraded the instrument performance and affected the Matrix Spike/Matrix Spike Duplicate analysis of sample 006.

Preliminary 8260C results on sample 006: Toluene 36.6ug/Kg; Naphthalene 95.3ug/Kg; All others will be less than the reporting limit.

Preliminary 8260C results on sample 008: Toluene 207ug/Kg; Naphthalene 30,000ug/Kg; Xylenes 296; 124-Trimethylbenzene 204ug/Kg; 4-Isopropyltoluene 256ug/Kg; All others will be less than the reporting limit. This sample is being rerun at a dilution to minimize the negative impact to the instrument and bring Naphthalene into the analytical calibration range. With this dilution, I suspect Naphthalene is the only compound we will see above the reporting limit.

Results of both samples are subject to change with the reanalysis confirmation.

Please let me know if I can provide any further information that will help determine the fate of the remaining 8 samples on this project. I believe the DRO and 8270D extraction hold time as well as the 8260C hold time on the remaining samples expire Wednesday this week. The GRO analysis on the remaining 8 samples was completed last week to avoid missing the hold time.

Ernie Pierce

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

54667

Special Reporting Instructions/PO#: 57634.00

Project Name: Burlington Bike Path	Client/Contact Name: R. Lomonaco	Sampler Name: R. Lomonaco / L. Lee
State of Origin: VT X NY __ NH __ Other __	Phone #: 497-6133	Phone #: 497-6133 / 497-6114
Endyne WO # 1410-21517	Mailing Address: VHB	Billing Address: VHB

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
SS-A-1	soil		X	10/14/14 1500	2 1	8oz 4oz 40ml	none none MeOH	22,23,24,25 28,30,34,35,36	TCLP (no pesticides)	2wk
SS-A-2				1504						
SS-A-3				1508						
SS-A-6				1512						
SS-A-7				1502						
SS-A-9				1506						
SS-B-1				1600					PID = 188.2 ppm	
SS-C-1				1605						

ATTACHMENT 'D'

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
R. [illegible]	10/15/14 08:35			[illegible]	10/15/14 0835

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 1.5
Comment: Totals on All

(White - Laboratory / Yellow - Client)

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

54668

Special Reporting Instructions/PO#: 57634.00

Project Name: Burlington Bike Path	Client/Contact Name: R. Lomonaco	Sampler Name: R. Lomonaco / L. Lee
State of Origin: VT X NY __ NH __ Other __	Phone #: 497-6133	Phone #: 497-6133 / 497-6114
Endyne WO # 1410-21517	Mailing Address: VHB	Billing Address: VHB

ATTACHMENT 'D'

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
SS-A-4	Soil		X	10/14/14 1530	2 1 1	8oz 4oz 40mL	none none MeOH	22,23,24,25 28,30,34,35 36	TCLP (no pesti/herb) * hold for analysis	
SS-A-5	↓		↓	1520	↓	↓	↓	↓	↓	
SS-A-8	↓		↓	1527	↓	↓	↓	↓	↓	
SS-A-10	↓		↓	1510	↓	↓	↓	↓	↓	
SS-A-11	↓		↓	1540	↓	↓	↓	↓	↓	
SS-A-12	↓		↓	1525	↓	↓	↓	↓	↓	
SS-A-13	↓		↓	1515	↓	↓	↓	↓	↓	
SS-A-14	↓		↓	1550	↓	↓	↓	↓	↓	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	10/15/14 0835			[signature]	10/15/14 0835

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 1.5
Comment:

(White - Laboratory / Yellow - Client)

ENDYNE Inc.
Environmental Laboratories

Vanasse Hangen Brustlin, Inc.	
PO Box 120	090395
N. Ferrisburgh, VT 05473	

PROJECT: Burlington Bike Path
WORK ORDER: **1411-23633**
DATE RECEIVED: November 12, 2014
DATE REPORTED: December 01, 2014
SAMPLER: R. Lomonaco

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and “N” the Plattsburgh, NY lab under certification ELAP 11892. “Sub” indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. “A” indicates the referenced laboratory is NELAC accredited for the parameter reported. “N” indicates the laboratory is not accredited. “U” indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an “A” meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report DATE REPORTED: 12/01/2014

CLIENT: Vanasse Hangen Brustlin, Inc. WORK ORDER: **1411-23633**
PROJECT: Burlington Bike Path DATE RECEIVED 11/12/2014

001 Site: SS-D-1 Date Sampled: 11/12/14 Time: 14:00

Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
TCLP Extract-SVOA/Metals	Completed		EPA 1311	11/14/14		W RGT	A	
Ignitability-Solids Package								
Ignitability	Negative		EPA 1030	11/30/14		W JSS	N	
Flashpoint	> 220	Degrees F	EPA 1010A Modified	11/30/14		W JSS	U	
pH	7.13	SU	EPA 9045D	11/14/14	16:19	W MHM	A	AN1
Reactivity	Negative		EPA Chap. 7.3.3	11/20/14		SWSUB	U	SBP
Reactive Cyanide	< 5.9	mg/Kg, wet	EPA Chap. 7.3.3.2	11/20/14		SWSUB	U	SBP
Reactive Sulfide	< 20	mg/Kg, wet	EPA Chap. 7.3.3.2	11/20/14		SWSUB	U	SBP
Arsenic, Total TCLP	< 0.20	mg/L	EPA 6010C	11/21/14		W RGT	A	
Barium, Total TCLP	5.7	mg/L	EPA 6010C	11/21/14		W RGT	A	
Cadmium, Total TCLP	0.25	mg/L	EPA 6010C	11/21/14		W RGT	A	
Chromium, Total TCLP	< 0.05	mg/L	EPA 6010C	11/21/14		W RGT	A	
Lead, Total TCLP	2.6	mg/L	EPA 6010C	11/21/14		W RGT	A	
Mercury, Total TCLP	< 0.010	mg/L	EPA 7470	11/24/14		W EER	A	
Selenium, Total TCLP	< 0.50	mg/L	EPA 7010	11/24/14		W CM	A	
Silver, Total TCLP	< 0.20	mg/L	EPA 6010C	11/21/14		W RGT	A	
Volatile Organic Compounds								
Prep EPA 5035A High Level	Complete		EPA 5035A-H	11/26/14		W EEP	A	
Dichlorodifluoromethane	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Chloromethane	< 96.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Vinyl chloride	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Bromomethane	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Chloroethane	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Trichlorofluoromethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Diethyl ether	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
1,1-Dichloroethene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Acetone	< 320	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Carbon disulfide	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Methylene chloride	< 160	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
t-Butanol	< 640	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Methyl-t-butyl ether (MTBE)	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
trans-1,2-Dichloroethene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Di-isopropyl ether (DIPE)	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	U	
1,1-Dichloroethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Ethyl-t-butyl ether (ETBE)	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	U	
2-Butanone	< 320	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
2,2-Dichloropropane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
cis-1,2-Dichloroethene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Bromochloromethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Chloroform	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Tetrahydrofuran	< 320	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	U	
1,1,1-Trichloroethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
Carbon tetrachloride	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
1,1-Dichloropropene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	N	
Benzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	A	
t-Amylmethyl ether (TAME)	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14		W SJM	U	

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PROJECT: Burlington Bike Path DATE RECEIVED 11/12/2014

001 Site: SS-D-1 Date Sampled: 11/12/14 Time: 14:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2-Dichloroethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Trichloroethene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2-Dichloropropane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Dibromomethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Bromodichloromethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
cis-1,3-Dichloropropene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
4-Methyl-2-pentanone (MIBK)	< 320	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Toluene	45.7	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
trans-1,3-Dichloropropene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,1,2-Trichloroethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Tetrachloroethene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,3-Dichloropropane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
2-Hexanone	< 320	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Dibromochloromethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2-Dibromoethane	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Chlorobenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Ethylbenzene	34.6	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,1,1,2-Tetrachloroethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Xylenes, Total	230	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Styrene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Bromoform	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Isopropylbenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,1,2,2-Tetrachloroethane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
Bromobenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
n-Propylbenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2,3-Trichloropropane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
2-Chlorotoluene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
1,3,5-Trimethylbenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
4-Chlorotoluene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
t-Butylbenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2,4-Trimethylbenzene	57.5	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
s-Butylbenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
4-Isopropyltoluene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,3-Dichlorobenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,4-Dichlorobenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
n-Butylbenzene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2-Dichlorobenzene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2-Dibromo-3-Chloropropane	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
1,2,4-Trichlorobenzene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
1,3,5-Trichlorobenzene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Hexachlorobutadiene	< 32.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Naphthalene	85.8	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	A	
1,2,3-Trichlorobenzene	< 64.0	ug/Kg, Dry	EPA 8260C	11/25/14	W SJM	N	
Surr. 1 (Dibromofluoromethane)	90	%	EPA 8260C	11/25/14	W SJM	U	
Surr. 2 (Toluene d8)	95	%	EPA 8260C	11/25/14	W SJM	U	
Surr. 3 (4-Bromofluorobenzene)	117	%	EPA 8260C	11/25/14	W SJM	U	

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001 Site: SS-D-1 Date Sampled: 11/12/14 Time: 14:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Unidentified Peaks	>10		EPA 8260C	11/25/14	W SJM	U	
TPH-GRO Package							
Prep EPA 5035A High Level	Complete		EPA 5035A-H	11/21/14	W SJM	A	
C5-C10 TPH GRO	< 6.35	mg/Kg, dry	EPA 8260C	11/21/14	W SJM	A	
> C10 Volatile Hydrocarbons	< 6.35	mg/Kg, dry	EPA 8260C	11/21/14	W SJM	U	
TPH DRO Package							
Ultrasonic Extraction	Completed		EPA 3550B	11/14/14	W FAA	A	
C7-C10 TPH	< 60.0	mg/Kg, dry	EPA 8015D	11/15/14	W MDP	U	
C10-C28 TPH-DRO	446	mg/Kg, dry	EPA 8015D	11/15/14	W MDP	A	
C28-C40 TPH	795	mg/Kg, dry	EPA 8015D	11/15/14	W MDP	U	
Tot. Petroleum Hydrocarbons	1,240	mg/Kg, dry	EPA 8015D	11/15/14	W MDP	U	
Hydrocarbon Window	C14-C36		EPA 8015D	11/15/14	W MDP	U	
Poly-Chlorinated Biphenyls							
Ultrasonic Extraction	Completed		EPA 3550C	11/14/14	W FAA	A	
Aroclor 1016	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1221	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1232	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1242	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1248	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1254	7,250	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Aroclor 1260	< 981	ug/Kg, dry	EPA 8082A	11/17/14	W MDP	A	
Surrogate-TCMX	113	%	EPA 8082A	11/17/14	W MDP	A	
Surrogate-DCB	119	%	EPA 8082A	11/17/14	W MDP	A	
EPA 8270C Semi-VOA							
Ultrasonic Extraction	Completed		EPA 3550B	11/13/14	W FAA	A	
N-Nitrosodimethylamine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Pyridine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Aniline	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Bis(2-chloroethyl)ether	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
1,2-Dichlorobenzene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
1,3-Dichlorobenzene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
1,4-Dichlorobenzene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzyl alcohol	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Bis(2-chloroisopropyl)ether	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
N-Nitrosodi-n-propylamine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Hexachloroethane	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Nitrobenzene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
N-Nitrosopiperidine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Isophorone	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Bis(2-chloroethoxy)methane	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
1,2,4-Trichlorobenzene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Naphthalene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
4-Chloroaniline	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Hexachlorobutadiene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
N-Nitrosodi-n-butylamine	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
2-Methylnaphthalene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	

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001 Site: SS-D-1 Date Sampled: 11/12/14 Time: 14:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1-Methylnaphthalene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	U	
Hexachlorocyclopentadiene	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2-Chloronaphthalene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
1-Chloronaphthalene	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
2-Nitroaniline	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Dimethyl phthalate	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,6-Dinitrotoluene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Acenaphthylene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
3-Nitroaniline	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Acenaphthene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Dibenzofuran	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
2,4-Dinitrotoluene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
1-Naphthylamine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
2-Naphthylamine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Fluorene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Diethyl phthalate	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
4-Chlorophenyl phenyl ether	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
4-Nitroaniline	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
N-Nitrosodiphenylamine	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Azobenzene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	U	
4-Bromophenyl phenyl ether	< 783	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Hexachlorobenzene	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Phenanthrene	2,760	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Anthracene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Carbazole	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
Di-n-butylphthalate	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Fluoranthene	2,630	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzidine	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Pyrene	2,950	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Butyl benzyl phthalate	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzo(a)anthracene	1,260	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Chrysene	1,530	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
3,3'-Dichlorobenzidine	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Di-n-octylphthalate	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzo(b)fluoranthene	2,310	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzo(k)fluoranthene	943	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzo(a)pyrene	1,590	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Indeno(1,2,3-cd)pyrene	1,260	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Dibenzo(a,h)anthracene	< 391	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Benzo(g,h,i)perylene	1,490	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Phenol	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2-Chlorophenol	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2-Methylphenol (o-cresol)	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
3&4-Methylphenol (m&p-cresol)	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Cresols, Total	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	U	

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001 Site: SS-D-1 Date Sampled: 11/12/14 Time: 14:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
2-Nitrophenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,4-Dimethylphenol	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,4-Dichlorophenol	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,6-Dichlorophenol	< 1,960	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	N	
4-Chloro-3-methylphenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,4,5-Trichlorophenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,4,6-Trichlorophenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
2,4-Dinitrophenol	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
4-Nitrophenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
4,6-Dinitro-2-methylphenol	< 7,830	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
Pentachlorophenol	< 3,910	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	A	
BaP Toxic Equiv. Quotient	2,330	ug/Kg, dry	EPA 8270D	11/24/14	W EEP	U	
B/N Surr.1 Nitrobenzene-d5	70	%	EPA 8270D	11/24/14	W EEP	U	
B/N Surr.2 2-Fluorobiphenyl	88	%	EPA 8270D	11/24/14	W EEP	U	
B/N Surr.3 Terphenyl-d14	102	%	EPA 8270D	11/24/14	W EEP	U	
Acid Surr.1 2-Fluorophenol	46	%	EPA 8270D	11/24/14	W EEP	U	
Acid Surr.2 Phenol-d8	54	%	EPA 8270D	11/24/14	W EEP	U	
Acid Surr.3 Tribromophenol	52	%	EPA 8270D	11/24/14	W EEP	U	
Unidentified Peaks	> 10		EPA 8270D	11/24/14	W EEP	U	

Report Summary of Qualifiers and Notes

Samples received in this project required pH. The EPA hold time for this analysis is 15 minutes and should be performed at the time of collection. Analysis was performed as soon as possible upon arrival at the laboratory.

AN1: Sample pH measured at room temperature. Actual temperature not recorded.

DRO values are based on the response and calibration of Diesel/#2 Fuel Oil.

GRO values are based on the response and calibration of Unleaded Gasoline.

SBP: Analysis performed by subcontracted laboratory, Phoenix Environmental Laboratories, ELAP#11301. Results are presented here for your convenience. Refer to the complete subcontracted report, which has been appended to this report, for detailed information regarding this result.

PHOENIX
Environmental Laboratories, Inc.

Friday, November 21, 2014

Attn: Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Project ID: 1411-23633-W
Sample ID#s: BH42303

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2014

FOR: Attn: Ms. Eileen Toomey
Endyne, Inc.
160 James Brown Dr.
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		11/12/14	14:00
Location Code:	END-WIL	Received by:	LB	11/18/14	10:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBH42303
Phoenix ID: BH42303

Project ID: 1411-23633-W
Client ID: 001 SS-D-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	79		%	11/18/14 20:26	I	SW846
Reactivity Cyanide	< 5.9	5.9	mg/Kg	11/20/14 00:00	O/EG	SW 846-7.3
Reactivity Sulfide	< 20	20	mg/Kg	11/20/14 13:03	EG	SW846-7.3
Reactivity	Negative		Pos/Neg	11/20/14 13:03	EG	SW 846-7.3

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide and Reactive Sulfide. This method is no longer listed in the current version of SW-846.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 21, 2014
Reviewed and Released by: Deb Lawrie, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 21, 2014

QA/QC Data

SDG I.D.: GBH42303

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 292892, QC Sample No: BH42337 (BH42303)													
Reactivity Cyanide	BRL	<5.3	<5.4	NC	98.6			56.5			85 - 115	30	m

m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
November 21, 2014

Friday, November 21, 2014

Criteria: None

State: VT

Sample Criteria Exceedences Report

GBH42303 - END-WIL

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Chain of Custody

1 of 1

Phoenix Environmental Labo
567 East Middle Turnpike
Manchester CT 6040
Ph 860-645-8726

STATE OF ORIGIN: Vermont

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at(802) 879-4333 ext 301. Thank you.

Copy of Report To		Billing Information		Project Information
CUSTOMER:	Endyne, Inc.	BILL TO:	Endyne, Inc.	1411-23633-W
ADDRESS:	160 James Brown Drive	ADDRESS:	160 James Brown Drive	TURN AROUND TIME:
	Williston, VT 05495		Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION:	Eileen Toomey	ATTENTION:	Reporting	
E-MAIL:	etoomey@endynelabs.com	E-MAIL:	mfausel@endynelabs.com	
PHONE:	(802) 879-4333 x 300	PHONE:	802-879-4333 x 308	

Analysis Requested: **Reactivity Package**

Reactivity Package

Reactivity Package

Sample Identification			Matrix	DT TM Sampled
				42303
1411-23633 001	SS-D-1	007	Soil	11/12/14 14:00

Relinquished by: (Sign, Date, Time) Ellen Toomey 11/17/14 @1700 UPS

Received by: (Sign, Date, Time) Monica J Pelle 11/18/14 10:49

ENDYNE, INC.

160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

№ 63188

Special Reporting Instructions/PO#: 57634.00

Project Name: Burlington Bike Path	Client/Contact Name: R. Lomonaco	Sampler Name: R. Lomonaco
State of Origin: VT ✓ NY __ NH __ Other __	Phone #: 497-6133	Phone #: 497-6133
Endyne WO # 1411-231633	Mailing Address: VHB	Billing Address: VHB

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
SS-D-1	Soil		X	11/12/14@1400	2	8oz	none	22, 23, 24	TCLP on RCRA metals only	2wk
					1	4oz	none	25, 28, 30		
					1	40mL	MeOH	34, 35, 36	32 et Rx	

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[illegible]	11/12/14 @ 1650			Eileen Lomay	11/12/14@1650

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	~~30~~	~~Total RCRA8~~
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 4.2
Comment:

(White - Laboratory / Yellow - Client)

Page 1 of 1

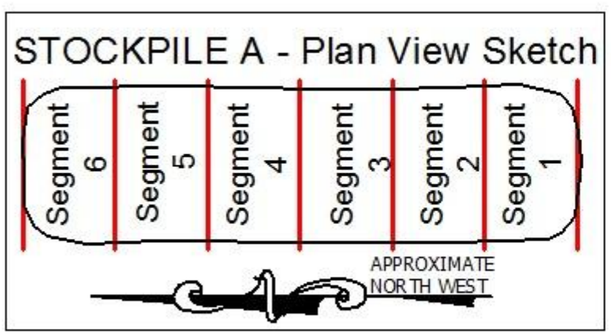
ATTACHMENT 'D'

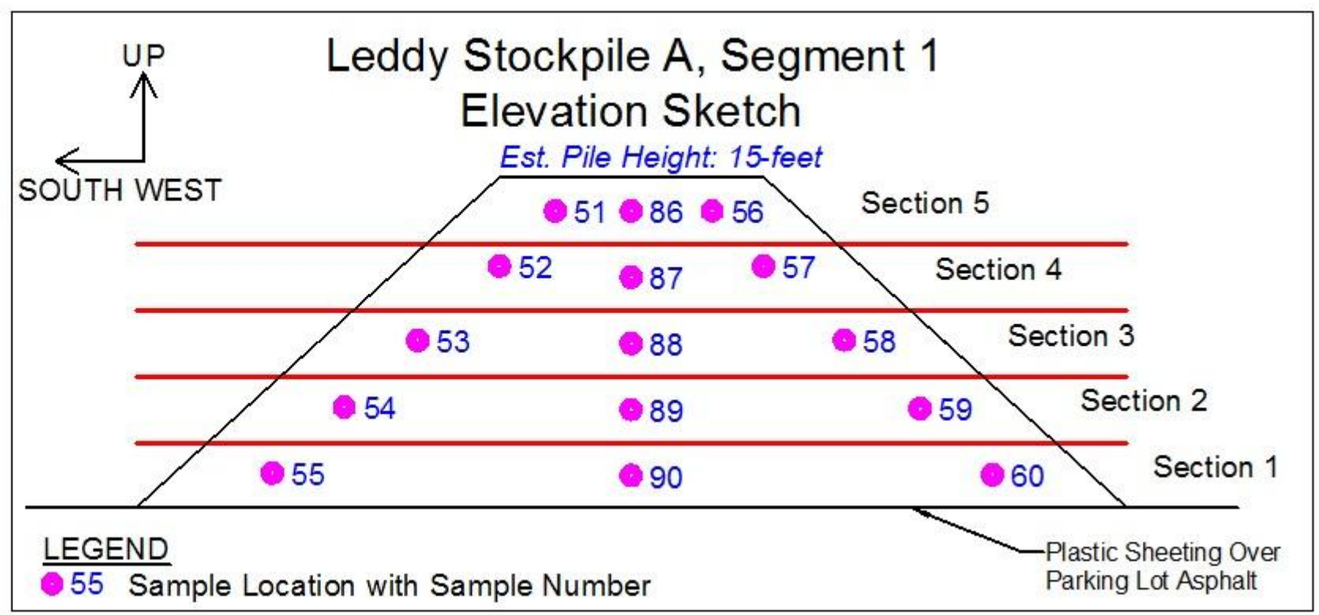
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 1)									
				Sample ID (ft-aps):	SP-A-52 (10.5)	SP-A-54 (4.5)	SP-A-56 (13.5)	SP-A-58 (7.5)	SP-A-60 (1.5)	SP-A-86 (13.5)	SP-A-88 (7.5)	SP-A-90 (1.5)	SP-A-DUP-05	
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	
	Screening Level												Parent:	
Analyte	Ind	Res	SSL	Units									SP-A-90 (1.5)	*RPD*
PAHs														
2-Methylnaphthalene	3000	240	---	mg/kg	0.28	0.2	0.14	0.096	0.097	0.21	0.2	0.085	0.034	*86%*
Acenaphthene	45000	3600	---	mg/kg	0.021	0.01	0.012	0.02	0.014	0.017	0.036	0.024	0.014	*53%*
Acenaphthylene	---	---	---	mg/kg	0.36	0.23	0.17	0.18	0.12	0.31	0.28	0.1	0.082	*20%*
Anthracene	230000	18000	---	mg/kg	0.37	0.23	0.19	0.23	0.13	0.3	0.31	0.14	0.099	*34%*
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.82**	**0.44**	**0.37**	**0.58**	**0.3**	**0.79**	**0.66**	**0.54**	**0.29**	*60%*
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.82**	**0.46**	**0.39**	**0.6**	**0.34**	**0.78**	**0.69**	**0.63**	**0.3**	*71%*
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.5**	**0.84**	**0.76**	**0.87**	**0.47**	**1.3**	**1.2**	**0.81**	**0.42**	*63%*
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.43	0.28	0.21	0.3	0.21	0.46	0.37	0.43	0.17	*87%*
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.55	0.28	0.23	0.31	0.18	0.45	0.4	0.3	0.15	*67%*
Chrysene	290	16	---	mg/kg	1.1	0.52	0.47	0.61	0.32	0.93	0.79	0.56	0.29	*64%*
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.16**	**0.1**	**0.076**	**0.098**	**0.059**	**0.16**	**0.13**	**0.11**	**0.052**	*72%*
Fluoranthene	30000	2400	---	mg/kg	1.4	0.61	0.62	1.1	0.53	1.2	1.1	0.87	0.52	*50%*
Fluorene	30000	2400	---	mg/kg	0.04	0.025	0.024	0.038	0.023	0.036	0.051	0.032	0.021	*42%*
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.55**	**0.34**	**0.26**	**0.36**	**0.23**	**0.56**	**0.46**	**0.46**	**0.2**	*79%*
Naphthalene	17	3.8	1.53	mg/kg	0.24	0.16	0.12	0.085	0.069	0.18	0.19	0.074	0.035	*72%*
Phenanthrene	---	---	---	mg/kg	0.48	0.27	0.28	0.44	0.22	0.45	0.58	0.4	0.23	*54%*
Pyrene	23000	1800	---	mg/kg	1.1	0.5	0.46	0.81	0.43	1	0.9	0.71	0.41	*54%*
Metals														
Lead	800	400	---	mg/kg	250	140	190	220	**530**	160	170	370	280	*28%*



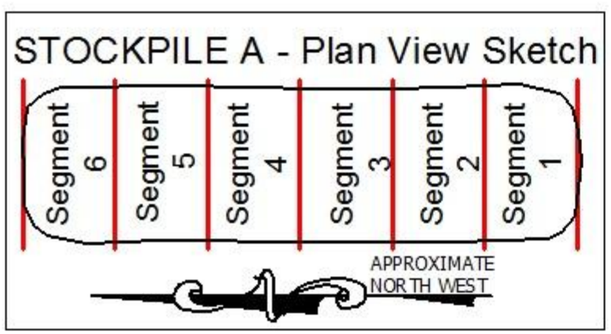


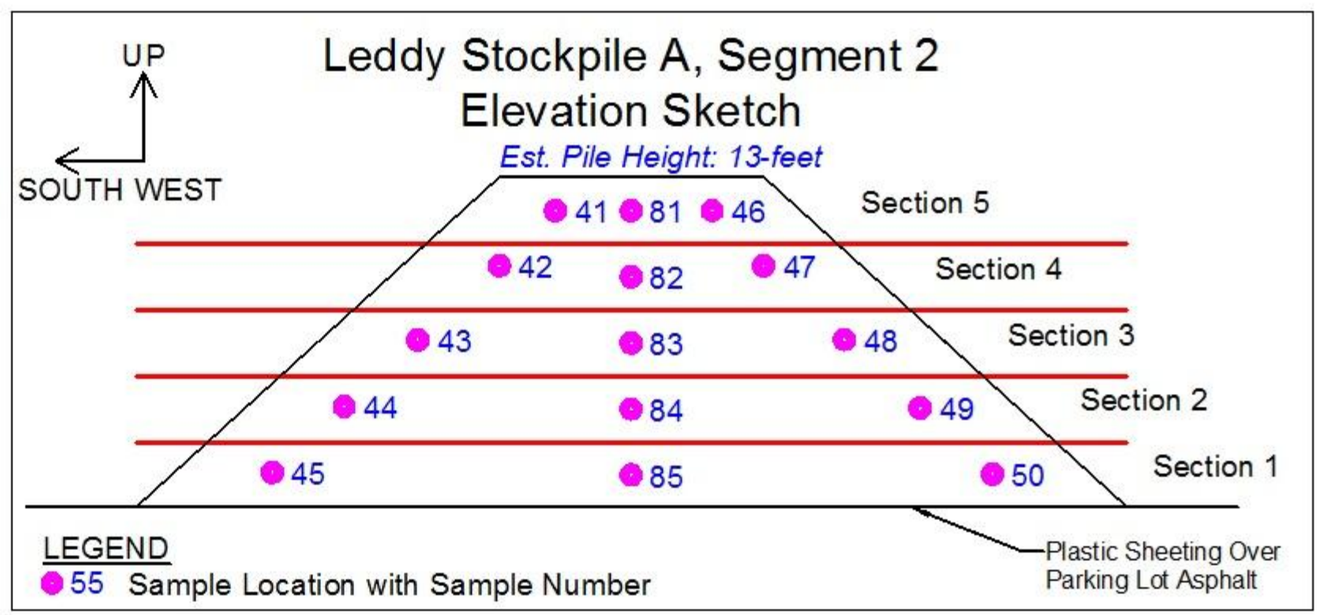
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 2)								
				Sample ID (ft-aps):	SP-A-42 (8.75)	SP-A-44 (3.75)	SP-A-DUP-03		SP-A-46 (11.25)	SP-A-48 (6.25)	SP-A-50 (1.25)	SP-A-82 (10.5)	SP-A-84 (4.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015
	Screening Level						Parent:						
Analyte	Ind	Res	SSL	Units			SP-A-44 (3.75)	*RPD*					
PAHs													
2-Methylnaphthalene	3000	240	---	mg/kg	0.16	0.2	0.19	*5%*	0.21	0.063	0.093	0.34	0.067
Acenaphthene	45000	3600	---	mg/kg	0.012	0.014	0.017	*19%*	0.018	< 0.009	0.021	0.049	0.03
Acenaphthylene	---	---	---	mg/kg	0.2	0.27	0.27	*0%*	0.37	0.096	0.21	0.42	0.13
Anthracene	230000	18000	---	mg/kg	0.18	0.26	0.3	*14%*	0.37	0.098	0.28	0.48	0.17
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.42**	**0.54**	**0.58**	*7%*	**0.82**	**0.22**	**0.49**	**1.2**	**0.39**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.48**	**0.56**	**0.62**	*10%*	**0.92**	**0.26**	**0.43**	**1.2**	**0.41**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**0.8**	**1**	**1.1**	*10%*	**1.7**	**0.47**	**0.58**	**2.1**	**0.6**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.31	0.34	0.33	*3%*	0.54	0.15	0.19	0.64	0.25
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.29	0.36	0.37	*3%*	0.63	0.15	0.19	0.75	0.19
Chrysene	290	16	---	mg/kg	0.53	0.67	0.68	*1%*	1.1	0.29	0.48	1.3	0.41
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.11**	**0.13**	**0.11**	*17%*	**0.21**	**0.053**	**0.062**	**0.26**	**0.074**
Fluoranthene	30000	2400	---	mg/kg	0.64	0.82	0.91	*10%*	1.2	0.36	1	1.7	0.72
Fluorene	30000	2400	---	mg/kg	0.024	0.029	0.034	*16%*	0.04	0.013	0.076	0.07	0.045
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.38**	**0.44**	**0.41**	*7%*	**0.71**	**0.19**	**0.24**	**0.88**	**0.28**
Naphthalene	17	3.8	1.53	mg/kg	0.13	0.17	0.17	*0%*	0.19	0.061	0.07	0.38	0.091
Phenanthrene	---	---	---	mg/kg	0.28	0.31	0.37	*18%*	0.39	0.13	0.73	0.85	0.42
Pyrene	23000	1800	---	mg/kg	0.56	0.66	0.69	*4%*	0.96	0.29	0.82	1.4	0.56
Metals													
Lead	800	400	---	mg/kg	230	210	240	*13%*	120	170	210	190	380



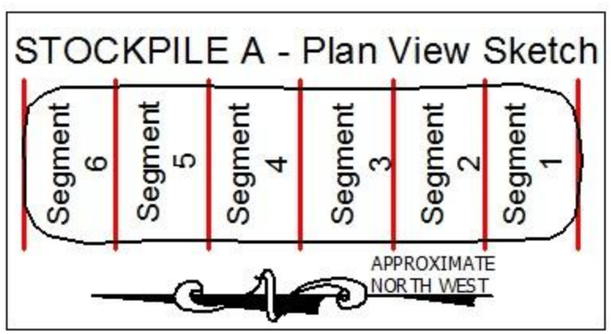


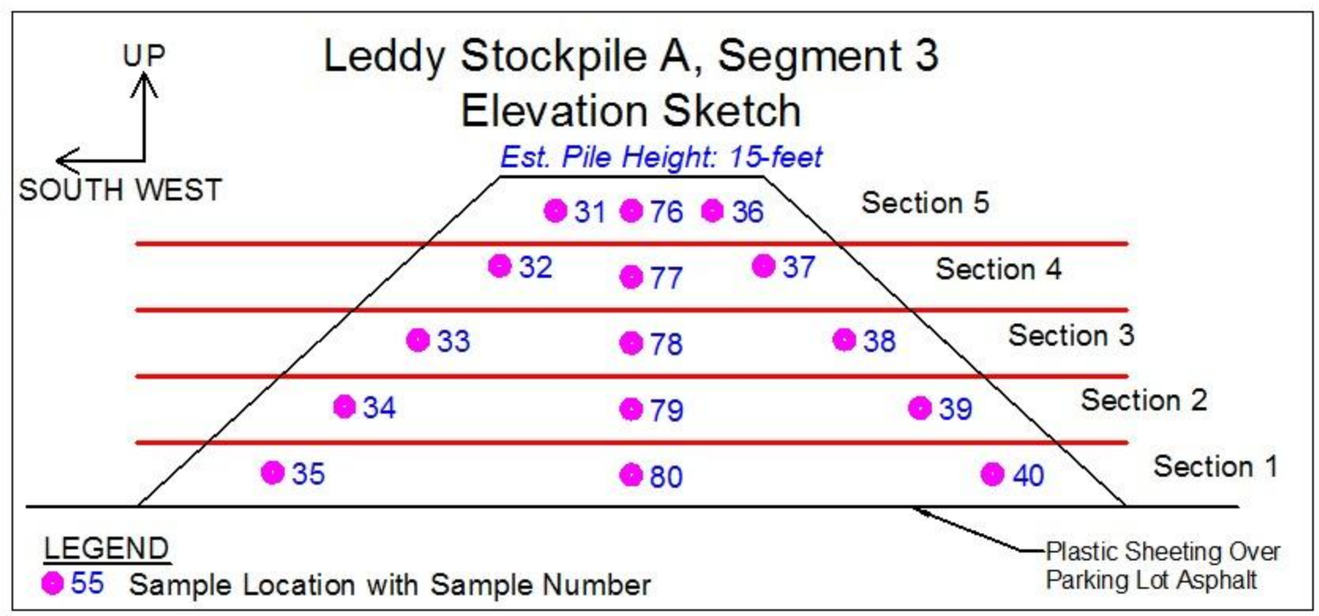
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 3)							
				Sample ID (ft-aps):	SP-A-32 (10.5)	SP-A-34 (4.5)	SP-A-36 (13.5)	SP-A-38 (7.5)	SP-A-40 (1.5)	SP-A-76 (13.5)	SP-A-78 (7.5)	SP-A-80 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level											
Analyte	Ind	Res	SSL	Units								
PAHs												
2-Methylnaphthalene	3000	240	---	mg/kg	0.23	0.097	0.22	0.24	0.28	0.21	0.23	0.16
Acenaphthene	45000	3600	---	mg/kg	0.029	0.01	0.047	0.028	0.035	0.017	0.019	0.033
Acenaphthylene	---	---	---	mg/kg	0.47	0.23	1.1	1.1	0.8	0.27	0.34	0.25
Anthracene	230000	18000	---	mg/kg	0.52	0.19	0.85	0.72	0.75	0.26	0.33	0.26
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.92**	**0.58**	**2.8**	**3**	**1.7**	**0.67**	**0.76**	**0.84**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.94**	**0.57**	**2.9**	**3.2**	**1.7**	**0.77**	**0.75**	**0.9**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.6**	**0.98**	**4.4**	**4.4**	**2.7**	**1.4**	**1.3**	**1.3**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.44	0.5	1.7	1.8	0.89	0.53	0.41	0.65
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.56	0.33	1.4	**1.6**	1	0.48	0.45	0.48
Chrysene	290	16	---	mg/kg	1	0.68	3.2	3.3	1.9	0.88	0.87	0.96
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.16**	**0.14**	**0.66**	**0.76**	**0.37**	**0.19**	**0.16**	**0.2**
Fluoranthene	30000	2400	---	mg/kg	1.3	0.94	3.4	2.5	2.3	0.97	1.1	1.5
Fluorene	30000	2400	---	mg/kg	0.058	0.026	0.091	0.084	0.071	0.036	0.035	0.053
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.56**	**0.55**	**2.3**	**2.5**	**1.2**	**0.65**	**0.53**	**0.73**
Naphthalene	17	3.8	1.53	mg/kg	0.2	0.081	0.28	0.24	0.28	0.21	0.21	0.15
Phenanthrene	---	---	---	mg/kg	0.47	0.34	1	0.64	0.71	0.4	0.42	0.67
Pyrene	23000	1800	---	mg/kg	1	0.8	3.4	2.5	2.1	0.87	0.96	1.3
Metals												
Lead	800	400	---	mg/kg	**700**	200	130	230	120	140	**910**	140



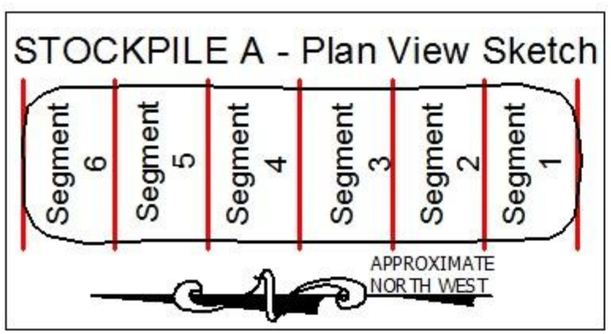


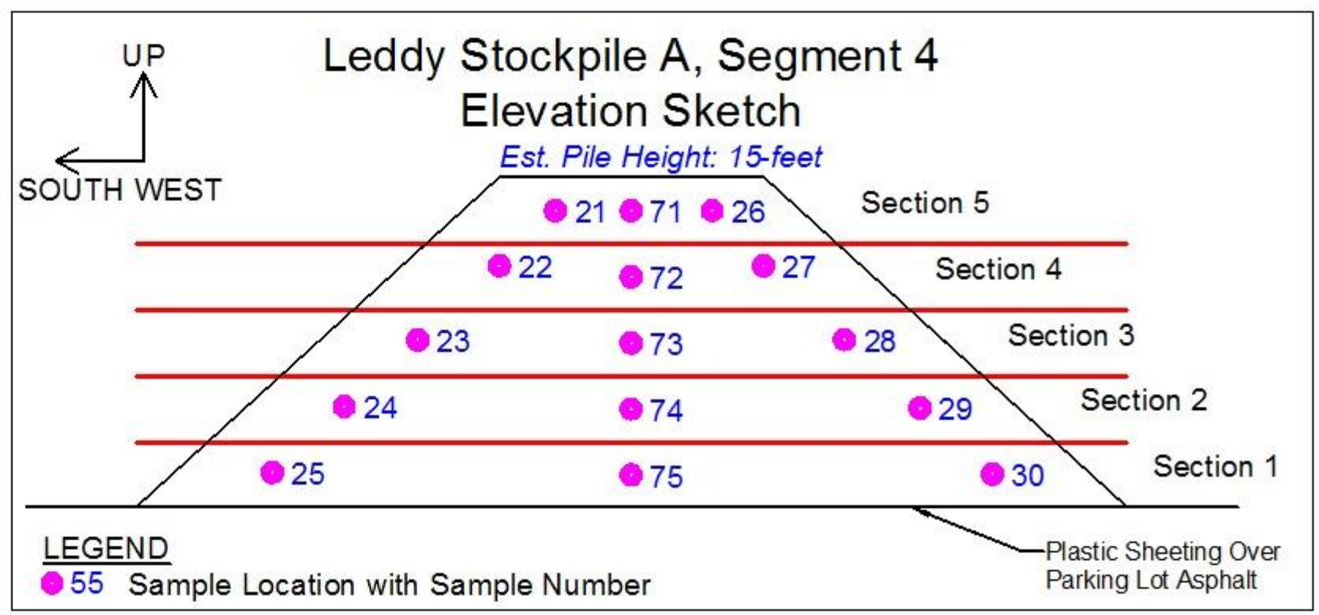
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 4)						
				Sample ID (ft-aps):	SP-A-22 (10.5)	SP-A-24 (4.5)	SP-A-26 (13.5)	SP-A-28 (7.5)	SP-A-30 (1.5)	SP-A-72 (10.5)	SP-A-74 (4.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015
	Screening Level										
Analyte	Ind	Res	SSL	Units							
PAHs											
2-Methylnaphthalene	3000	240	---	mg/kg	0.24	0.24	0.27	0.25	0.21	0.34	0.11
Acenaphthene	45000	3600	---	mg/kg	0.02	0.019	0.021	0.031	0.019	0.025	0.019
Acenaphthylene	---	---	---	mg/kg	0.58	0.55	0.42	0.7	0.34	0.64	0.18
Anthracene	230000	18000	---	mg/kg	0.57	0.54	0.44	0.85	0.35	0.6	0.17
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.94**	**1.4**	**0.77**	**2.8**	**0.79**	**1.3**	**0.49**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.98**	**1.3**	**0.78**	**2.2**	**0.77**	**1.2**	**0.56**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.8**	**2.1**	**1.5**	**4.4**	**1.3**	**2.2**	**0.86**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.48	0.57	0.37	0.86	0.41	0.76	0.37
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.6	0.78	0.5	**1.6**	0.47	0.75	0.3
Chrysene	290	16	---	mg/kg	1.1	1.5	0.94	3.6	0.85	1.5	0.64
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.19**	**0.23**	**0.15**	**0.41**	**0.15**	**0.31**	**0.12**
Fluoranthene	30000	2400	---	mg/kg	1.3	1.9	1.1	3.8	1.1	1.7	0.95
Fluorene	30000	2400	---	mg/kg	0.05	0.048	0.044	0.067	0.036	0.056	0.03
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.64**	**0.75**	**0.49**	**1.2**	**0.51**	**0.96**	**0.45**
Naphthalene	17	3.8	1.53	mg/kg	0.23	0.21	0.23	0.3	0.19	0.31	0.099
Phenanthrene	---	---	---	mg/kg	0.42	0.47	0.39	0.82	0.35	0.56	0.48
Pyrene	23000	1800	---	mg/kg	1	1.5	0.86	2.9	0.93	1.5	0.8
Metals											
Lead	800	400	---	mg/kg	100	150	170	110	150	140	180



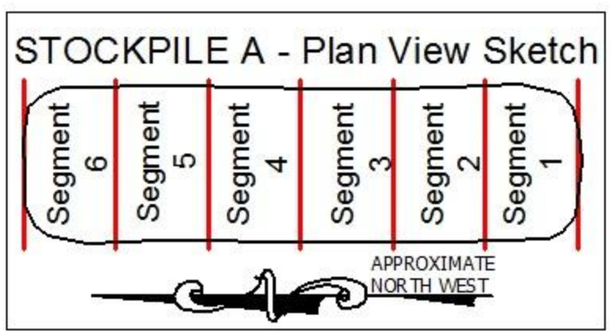


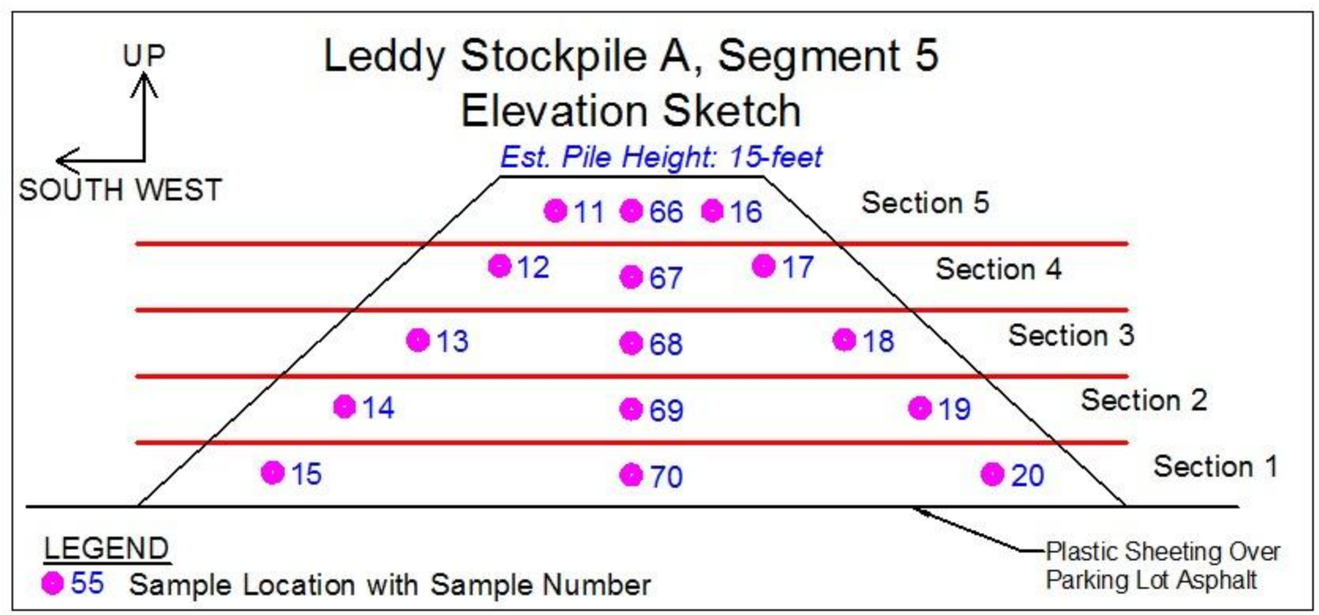
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 5)							
				Sample ID (ft-aps):	SP-A-12 (10.5)	SP-A-14 (4.5)	SP-A-16 (13.5)	SP-A-18 (7.5)	SP-A-20 (1.5)	SP-A-66 (13.5)	SP-A-68 (7.5)	SP-A-70 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level											
Analyte	Ind	Res	SSL	Units								
PAHs												
2-Methylnaphthalene	3000	240	---	mg/kg	0.31	0.2	0.28	0.26	0.28	0.29	0.19	0.21
Acenaphthene	45000	3600	---	mg/kg	0.02	0.018	0.019	0.027	0.039	0.017	0.02	0.058
Acenaphthylene	---	---	---	mg/kg	0.34	0.23	0.31	0.31	0.43	0.24	0.3	0.4
Anthracene	230000	18000	---	mg/kg	0.38	0.24	0.29	0.33	0.53	0.21	0.26	0.51
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.71**	**0.5**	**0.67**	**0.72**	**1.1**	**0.52**	**0.68**	**1.2**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.89**	**0.53**	**0.73**	**0.74**	**1.1**	**0.57**	**0.82**	**1.2**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.7**	**0.87**	**1.4**	**1.3**	**1.9**	**1.1**	**1.6**	**1.7**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.7	0.34	0.6	0.53	0.57	0.52	0.7	0.73
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.57	0.3	0.48	0.46	0.7	0.34	0.5	0.64
Chrysene	290	16	---	mg/kg	0.99	0.6	0.84	0.87	1.3	0.73	1.1	1.4
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.24**	**0.12**	**0.2**	**0.18**	**0.22**	**0.18**	**0.23**	**0.26**
Fluoranthene	30000	2400	---	mg/kg	0.92	0.78	0.95	1.2	1.9	0.82	1.4	2.6
Fluorene	30000	2400	---	mg/kg	0.042	0.032	0.038	0.046	0.11	0.035	0.037	0.083
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.86**	**0.42**	**0.7**	**0.65**	**0.78**	**0.61**	**0.83**	**0.9**
Naphthalene	17	3.8	1.53	mg/kg	0.27	0.17	0.25	0.24	0.3	0.25	0.19	0.23
Phenanthrene	---	---	---	mg/kg	0.41	0.35	0.44	0.55	1.2	0.49	0.59	1.5
Pyrene	23000	1800	---	mg/kg	0.82	0.65	0.84	0.94	1.4	0.68	1.1	2.1
Metals												
Lead	800	400	---	mg/kg	370	220	200	170	220	160	160	210



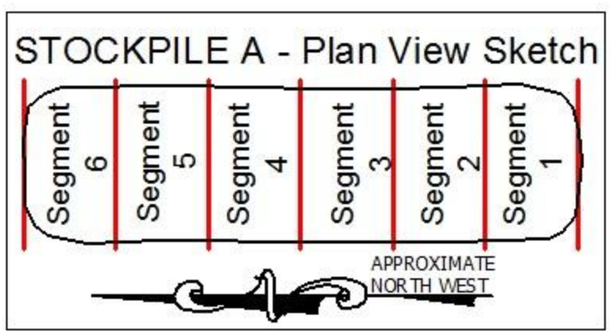


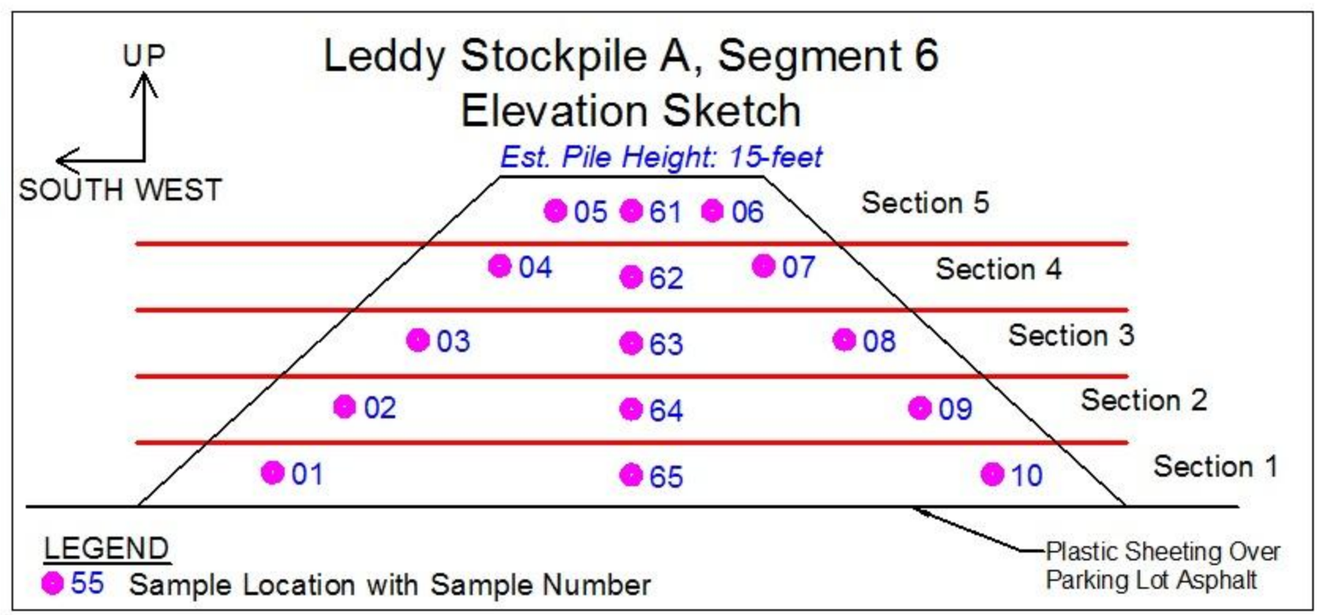
ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 6)								
				Sample ID (ft-aps):	SP-A-02 (4.5)	SP-A-04 (10.5)	SP-A-06 (13.5)	SP-A-08 (7.5)	SP-A-DUP-01		SP-A-10 (1.5)	SP-A-62 (10.5)	SP-A-64 (4.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/16/2015	9/16/2015
	Screening Level								Parent:				
Analyte	Ind	Res	SSL	Units					SP-A-08 (7.5)	*RPD*			
PAHs													
2-Methylnaphthalene	3000	240	---	mg/kg	0.17	0.15	0.24	0.2	0.21	*5%*	0.19	0.2	0.17
Acenaphthene	45000	3600	---	mg/kg	0.035	0.015	0.018	0.011	0.012	*9%*	0.016	0.02	0.02
Acenaphthylene	---	---	---	mg/kg	0.29	0.23	0.35	0.3	0.38	*24%*	0.33	0.28	0.099
Anthracene	230000	18000	---	mg/kg	0.3	0.21	0.32	0.28	0.38	*30%*	0.34	0.26	0.13
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.72**	**0.46**	**0.64**	**0.53**	**0.68**	*25%*	**0.68**	**0.68**	**0.52**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.77**	**0.51**	**0.62**	**0.49**	**0.62**	*23%*	**0.61**	**0.63**	**0.6**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.4**	**0.88**	**1.2**	**0.88**	**1.2**	*31%*	**1**	**1.2**	**0.88**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.61	0.46	0.55	0.36	0.28	*25%*	0.41	0.57	0.53
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.47	0.28	0.38	0.28	0.43	*42%*	0.34	0.4	0.3
Chrysene	290	16	---	mg/kg	0.85	0.55	0.77	0.63	0.79	*23%*	0.77	0.86	0.66
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.19**	**0.14**	**0.19**	**0.13**	**0.12**	*8%*	**0.15**	**0.18**	**0.13**
Fluoranthene	30000	2400	---	mg/kg	1.1	0.71	0.92	0.87	1	*14%*	1.1	1.2	1.1
Fluorene	30000	2400	---	mg/kg	0.052	0.028	0.036	0.027	0.031	*14%*	0.034	0.035	0.028
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.7**	**0.53**	**0.65**	**0.43**	**0.37**	*15%*	**0.51**	**0.65**	**0.54**
Naphthalene	17	3.8	1.53	mg/kg	0.16	0.13	0.21	0.16	0.18	*12%*	0.17	0.18	0.14
Phenanthrene	---	---	---	mg/kg	0.52	0.28	0.39	0.28	0.31	*10%*	0.35	0.49	0.65
Pyrene	23000	1800	---	mg/kg	0.96	0.59	0.76	0.67	0.76	*13%*	0.86	0.94	1
Metals													
Lead	800	400	---	mg/kg	150	210	170	96	110	*14%*	100	140	190



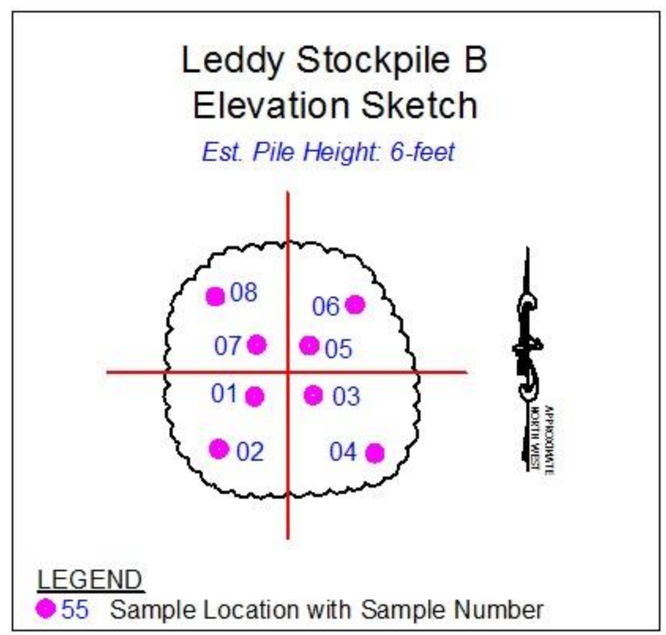


ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile B					
				Sample ID (ft-aps):	SP-B-01 (4.5)	SP-B-04 (1.5)	SP-B-DUP-01		SP-B-05 (4.5)	SP-B-08 (1.5)
				Sample Date:	9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015
	Screening Level						Parent:			
Analyte	Ind	Res	SSL	Units			SP-B-04 (1.5)	*RPD*		
PAHs										
2-Methylnaphthalene	3000	240	---	mg/kg	0.4	0.17	0.16	*6%*	0.24	0.27
Acenaphthene	45000	3600	---	mg/kg	0.012	0.016	0.011	*37%*	0.018	0.0097
Acenaphthylene	---	---	---	mg/kg	0.24	0.19	0.18	*5%*	0.15	0.16
Anthracene	230000	18000	---	mg/kg	0.26	0.31	0.2	*43%*	0.16	0.19
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.4**	**0.36**	**0.34**	*6%*	**0.21**	**0.31**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.45**	**0.4**	**0.4**	*0%*	**0.27**	**0.32**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**0.75**	**0.68**	**0.6**	*13%*	**0.5**	**0.48**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.21	0.18	0.24	*29%*	0.16	0.23
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.27	0.21	0.19	*10%*	0.15	0.17
Chrysene	290	16	---	mg/kg	0.44	0.49	0.38	*25%*	0.28	0.34
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.075**	**0.062**	**0.081**	*27%*	**0.053**	**0.076**
Fluoranthene	30000	2400	---	mg/kg	0.63	0.58	0.51	*13%*	0.32	0.5
Fluorene	30000	2400	---	mg/kg	0.033	0.033	0.026	*24%*	0.035	0.024
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.27**	**0.23**	**0.29**	*23%*	**0.19**	**0.27**
Naphthalene	17	3.8	1.53	mg/kg	0.25	0.13	0.12	*8%*	0.24	0.16
Phenanthrene	---	---	---	mg/kg	0.26	0.25	0.2	*22%*	0.2	0.18
Pyrene	23000	1800	---	mg/kg	0.48	0.43	0.44	*2%*	0.24	0.41
Metals										
Lead	800	400	---	mg/kg	71	95	97	*2%*	80	72

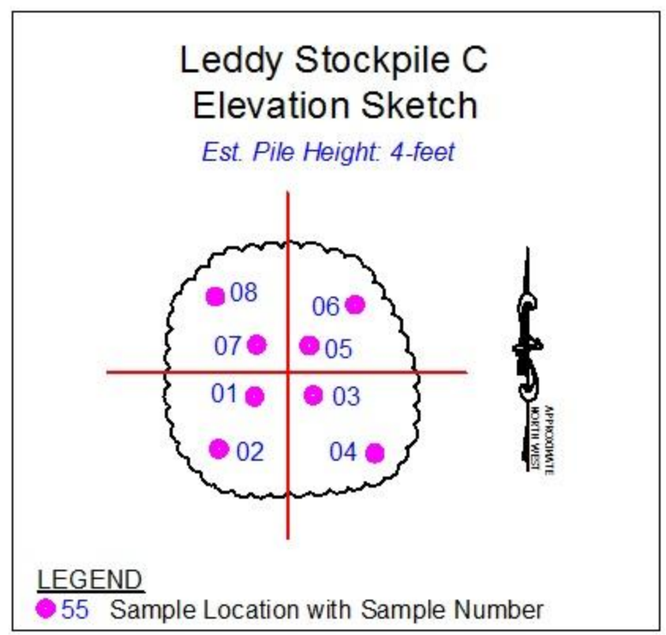


ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile C					
				Sample ID (ft-aps):	SP-C-02 (1)	SP-C-DUP-01		SP-C-03 (3)	SP-C-06 (1)	SP-C-07 (3)
				Sample Date:	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015
	Screening Level					Parent:				
Analyte	Ind	Res	SSL	Units		SP-C-02 (1)	*RPD*			
PAHs										
2-Methylnaphthalene	3000	240	---	mg/kg	0.32	0.27	*17%*	0.68	0.19	0.85
Acenaphthene	45000	3600	---	mg/kg	0.13	0.17	*27%*	0.38	0.04	0.55
Acenaphthylene	---	---	---	mg/kg	0.42	0.4	*5%*	0.84	0.28	1.1
Anthracene	230000	18000	---	mg/kg	0.59	0.66	*11%*	2.8	0.35	3.2
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**1.3**	**1.4**	*7%*	**3.4**	**0.86**	**4.6**
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**1.3**	**1.3**	*0%*	**2.4**	**0.85**	**3.4**
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**2.2**	**2**	*10%*	**4.1**	**1.4**	**5.6**
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.67	0.62	*8%*	1	0.47	1.6
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.72	0.75	*4%*	1.5	0.5	**1.9**
Chrysene	290	16	---	mg/kg	1.5	1.6	*6%*	5.1	1.1	5.1
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.24**	**0.2**	*18%*	**0.4**	**0.16**	**0.63**
Fluoranthene	30000	2400	---	mg/kg	2.1	2.9	*32%*	5.5	1.6	7.2
Fluorene	30000	2400	---	mg/kg	0.19	0.27	*35%*	0.63	0.067	1.4
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.86**	**0.75**	*14%*	**1.4**	**0.58**	**2.1**
Naphthalene	17	3.8	1.53	mg/kg	0.79	0.71	*11%*	**1.9**	0.28	**2.7**
Phenanthrene	---	---	---	mg/kg	1.1	1.7	*43%*	2.1	0.63	4.5
Pyrene	23000	1800	---	mg/kg	1.7	2.1	*21%*	4.5	1.2	6.3
Metals										
Lead	800	400	---	mg/kg	170	170	*0%*	170	180	200

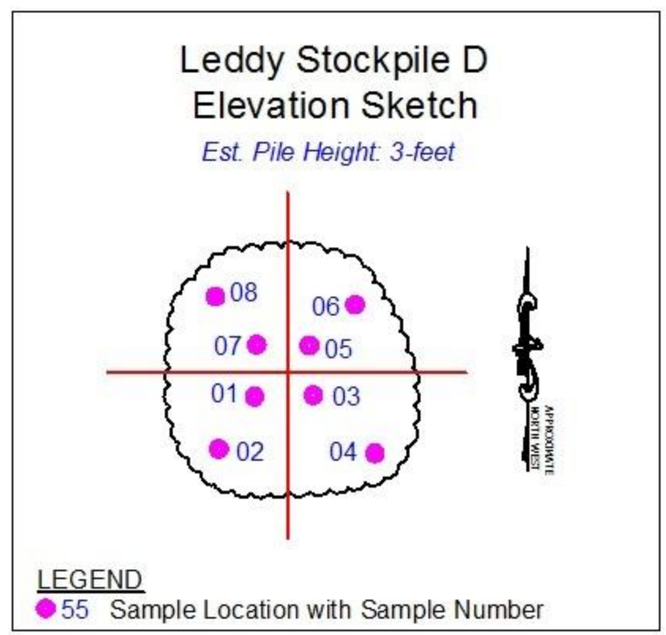


ATTACHMENT 'E'

Table 1 - Stockpile PAH and Lead Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

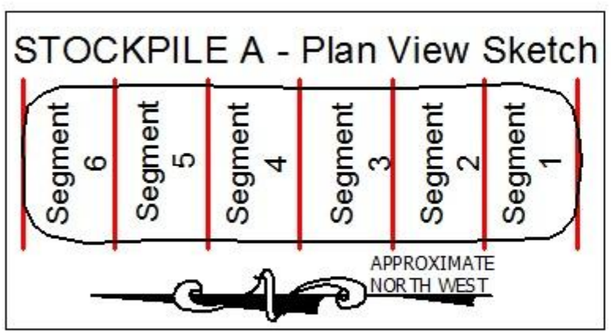
				Sample Location:	Alden Waterfront Park, Stockpile D						QC
				Sample ID (ft-aps):	SP-D-01 (1)	SP-D-04 (0.5)	SP-D-05 (1)	SP-D-08 (0.5)	SP-D-DUP-01		FB-SP-01
				Sample Date:	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015		9/15/2015
	Screening Level								Parent:		Units:
Analyte	Ind	Res	SSL	Units					SP-D-08 (0.5)	*RPD*	µg/L
PAHs											
2-Methylnaphthalene	3000	240	---	mg/kg	0.11	0.18	0.2	0.099	0.09	*10%*	< 0.1
Acenaphthene	45000	3600	---	mg/kg	0.046	0.045	0.011	0.019	0.0084	*77%*	< 0.1
Acenaphthylene	---	---	---	mg/kg	0.2	0.22	0.23	0.18	0.13	*32%*	< 0.1
Anthracene	230000	18000	---	mg/kg	0.33	0.25	0.22	0.2	0.13	*42%*	< 0.1
Benzo[a]anthracene	2.9	0.16	---	mg/kg	**0.82**	**0.56**	**0.45**	**0.46**	**0.26**	*56%*	< 0.1
Benzo[a]pyrene	0.29	0.016	0.01	mg/kg	**0.79**	**0.5**	**0.49**	**0.5**	**0.29**	*53%*	< 0.1
Benzo[b]fluoranthene	2.9	0.16	---	mg/kg	**1.1**	**0.87**	**0.77**	**0.8**	**0.5**	*46%*	< 0.1
Benzo[g,h,i]perylene	---	---	---	mg/kg	0.58	0.26	0.45	0.26	0.2	*26%*	< 0.1
Benzo[k]fluoranthene	29	1.6	---	mg/kg	0.38	0.31	0.26	0.29	0.17	*52%*	< 0.1
Chrysene	290	16	---	mg/kg	0.88	0.64	0.51	0.55	0.31	*56%*	< 0.1
Dibenz[a,h]anthracene	0.29	0.016	---	mg/kg	**0.17**	**0.087**	**0.13**	**0.084**	**0.06**	*33%*	< 0.1
Fluoranthene	30000	2400	---	mg/kg	1.6	1.1	0.67	0.92	0.43	*73%*	< 0.1
Fluorene	30000	2400	---	mg/kg	0.067	0.086	0.027	0.03	0.019	*45%*	< 0.1
Indeno[1,2,3-cd]pyrene	2.9	0.16	---	mg/kg	**0.63**	**0.31**	**0.48**	**0.32**	**0.22**	*37%*	< 0.1
Naphthalene	17	3.8	1.53	mg/kg	0.089	0.21	0.14	0.079	0.071	*11%*	< 0.1
Phenanthrene	---	---	---	mg/kg	0.85	0.61	0.22	0.35	0.15	*80%*	< 0.1
Pyrene	23000	1800	---	mg/kg	1.4	0.84	0.62	0.66	0.35	*61%*	< 0.1
Metals											
Lead	800	400	---	mg/kg	340	190	**1100**	**630**	390	*47%*	< 0.001

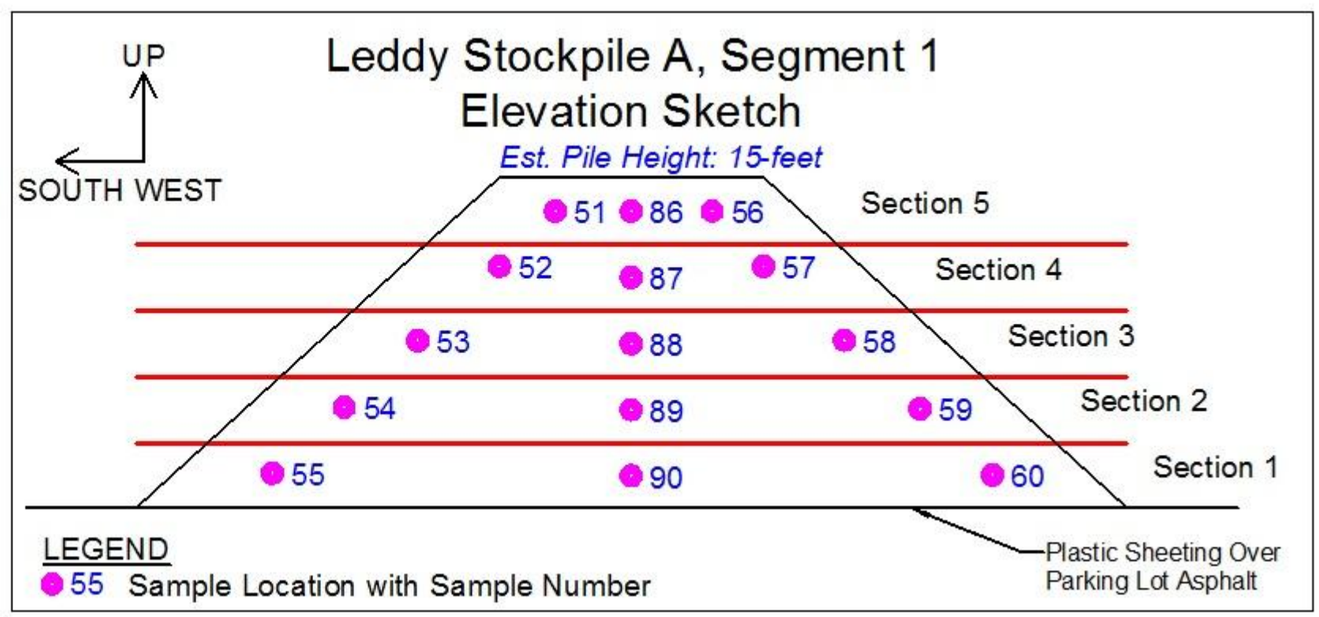


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 1)																
				Sample ID (ft-aps):	SP-A-51 (13.5)	SP-A-52 (10.5)	SP-A-53 (7.5)	SP-A-54 (4.5)	SP-A-55 (1.5)	SP-A-56 (13.5)	SP-A-57 (10.5)	SP-A-58 (7.5)	SP-A-59 (4.5)	SP-A-60 (1.5)	SP-A-86 (13.5)	SP-A-87 (10.5)	SP-A-88 (7.5)	SP-A-89 (4.5)	SP-A-90 (1.5)	SP-A-DUP-05	
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	
	Screening Level																			Parent:	
Analyte	Ind	Res	SSL	Units																SP-A-90 (1.5)	*RPD*
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1248	0.94	0.23	---	mg/kg	0.061	< 0.02	< 0.02	< 0.02	**0.43**	< 0.02	< 0.02	0.091	< 0.02	< 0.02	0.03	0.058	0.07	0.041	**0.28**	0.17	*49%*
PCB-1254	0.97	0.24	0.12	mg/kg	**0.13**	**0.3**	< 0.02	0.042	**0.21**	**0.28**	**0.53**	**0.21**	**1.2**	**2.6**	0.067	**0.14**	**0.14**	0.087	**0.86**	**0.49**	*55%*
PCB-1260	0.99	0.24	---	mg/kg	0.19	**0.91**	0.041	0.073	0.2	**0.57**	**1**	**0.3**	**1**	**1.6**	0.13	**0.27**	**0.27**	0.12	**0.98**	**0.75**	*27%*
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---

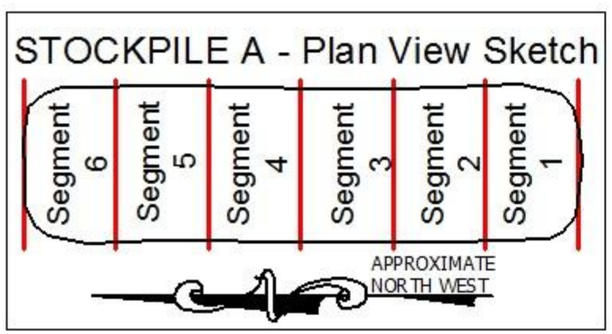


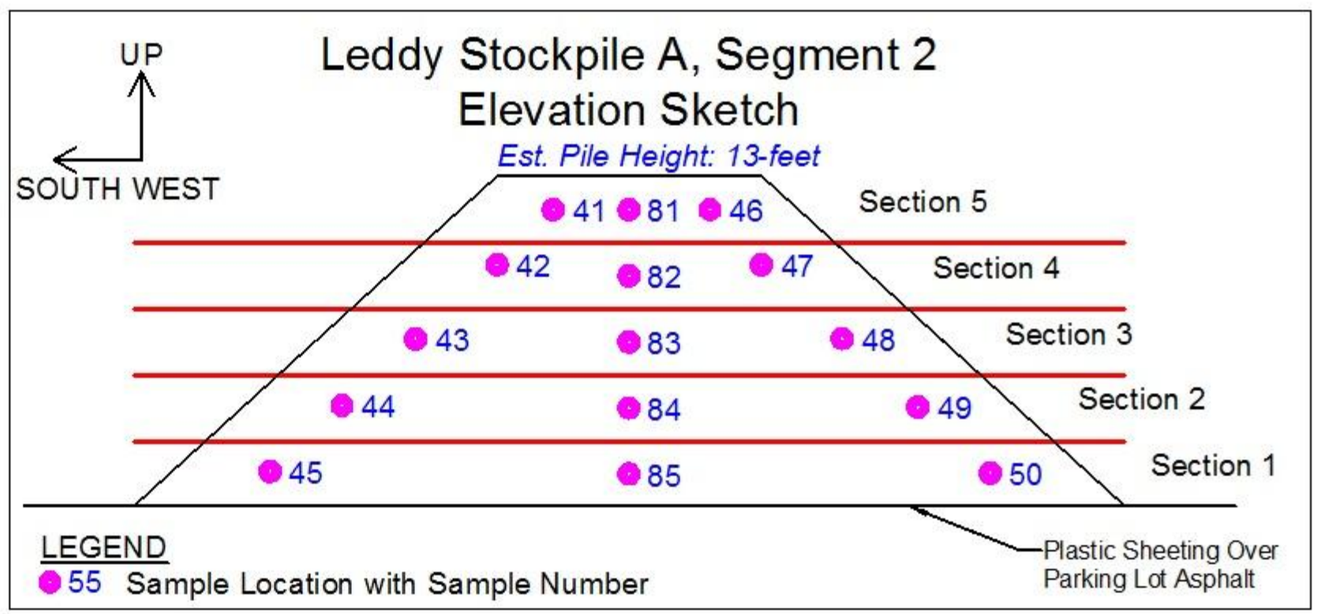


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 2)															
				Sample ID (ft-aps):	SP-A-41 (11.25)	SP-A-42 (8.75)	SP-A-43 (6.25)	SP-A-44 (3.75)	SP-A-DUP-03		SP-A-45 (1.25)	SP-A-46 (11.25)	SP-A-47 (8.75)	SP-A-48 (6.25)	SP-A-49 (3.75)	SP-A-50 (1.25)	SP-A-81 (11.25)	SP-A-82 (10.5)	SP-A-83 (7.5)	SP-A-84 (4.5)	SP-A-85(1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level								Parent:												
Analyte	Ind	Res	SSL	Units					SP-A-44 (3.75)	*RPD*											
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	0.19	---	< 0.02	< 0.02	< 0.02	0.08	< 0.02	0.087	0.091	0.038	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.13**	**0.16**	**0.13**	**0.17**	**0.35**	*69%*	0.092	< 0.02	0.036	**0.13**	0.11	**0.27**	**0.16**	0.049	0.024	**0.33**	**0.12**
PCB-1260	0.99	0.24	---	mg/kg	0.19	**0.25**	**0.24**	**0.26**	**0.33**	*24%*	0.13	< 0.02	0.05	0.15	0.23	**0.33**	**0.34**	0.052	0.029	**0.48**	0.13
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

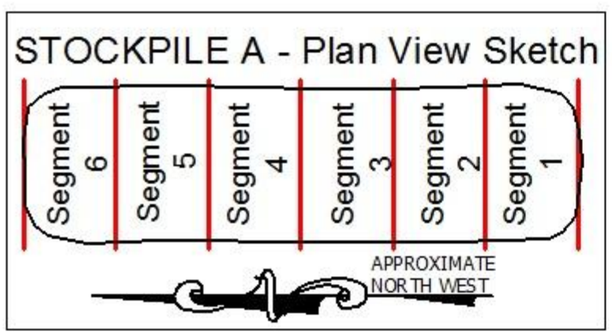


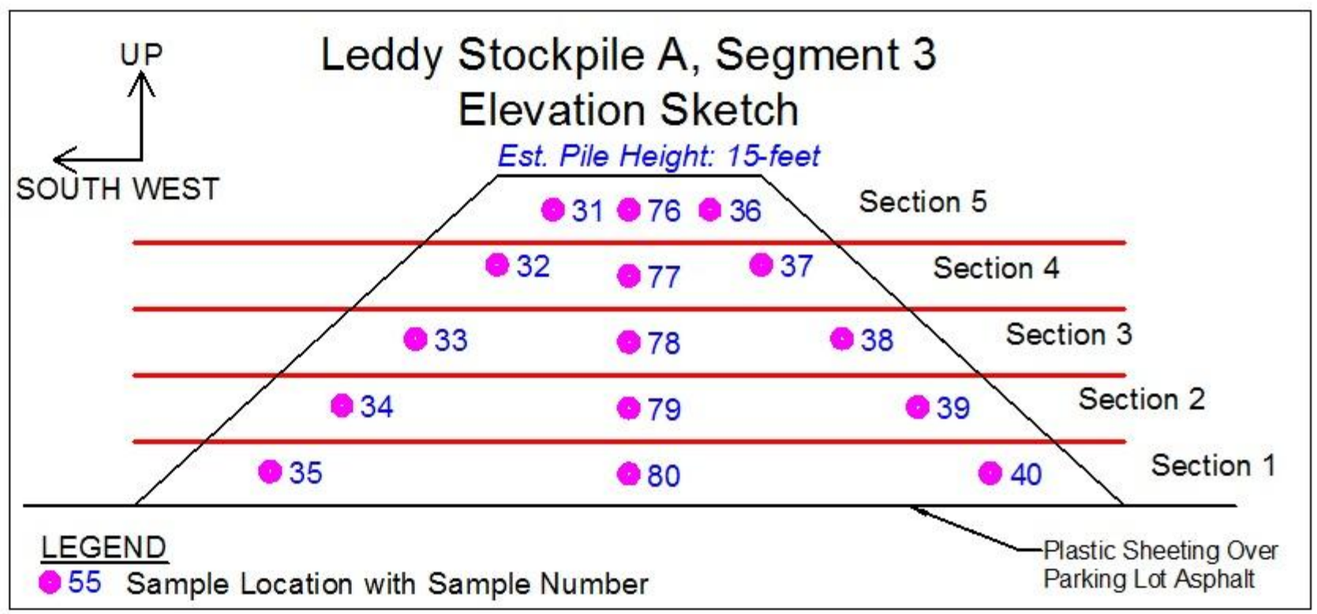


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 3)														
				Sample ID (ft-aps):	SP-A-31 (13.5)	SP-A-32 (10.5)	SP-A-33 (7.5)	SP-A-34 (4.5)	SP-A-35 (1.5)	SP-A-36 (13.5)	SP-A-37 (10.5)	SP-A-38 (7.5)	SP-A-39 (4.5)	SP-A-40 (1.5)	SP-A-76 (13.5)	SP-A-77 (10.5)	SP-A-78 (7.5)	SP-A-79 (4.5)	SP-A-80 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level																		
Analyte	Ind	Res	SSL	Units															
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	0.2	**1.3**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.069	0.047
PCB-1254	0.97	0.24	0.12	mg/kg	**0.31**	**1.6**	**0.26**	**0.29**	**0.28**	0.039	0.021	0.069	< 0.02	< 0.02	< 0.02	< 0.02	0.043	0.059	0.08
PCB-1260	0.99	0.24	---	mg/kg	**0.7**	**1.5**	**0.65**	**0.64**	**0.61**	0.074	0.028	0.091	0.047	0.061	< 0.02	< 0.02	0.057	0.069	0.077
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

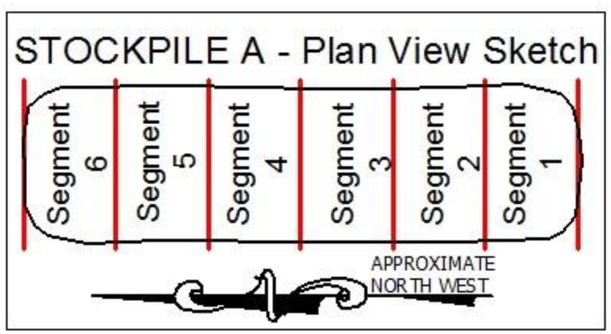


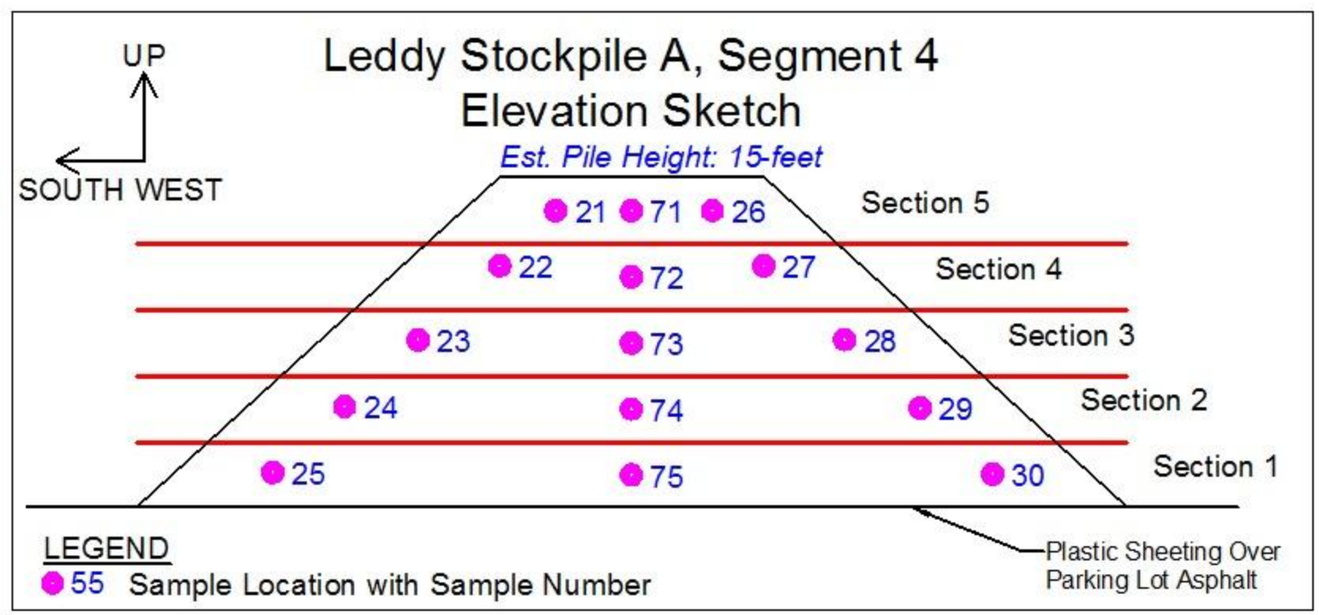


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 4)																
				Sample ID (ft-aps):	SP-A-21 (13.5)	SP-A-22 (10.5)	SP-A-23 (7.5)	SP-A-24 (4.5)	SP-A-25 (1.5)	SP-A-26 (13.5)	SP-A-27 (10.5)	SP-A-28 (7.5)	SP-A-29 (4.5)	SP-A-30 (1.5)	SP-A-DUP-02		SP-A-71 (13.5)	SP-A-72 (10.5)	SP-A-73 (7.5)	SP-A-74 (4.5)	SP-A-75 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level														Parent:						
Analyte	Ind	Res	SSL	Units											SP-A-30 (1.5)	*RPD*					
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.14	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.21**	< 0.02	0.061	0.043	0.042	0.087	< 0.02	0.027	0.03	0.087	0.045	*64%*	**0.29**	< 0.02	0.075	0.095	0.059
PCB-1260	0.99	0.24	---	mg/kg	0.23	0.043	0.078	0.069	0.063	0.13	0.044	0.047	0.053	0.081	0.079	*3%*	0.22	0.037	0.1	0.15	0.025
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

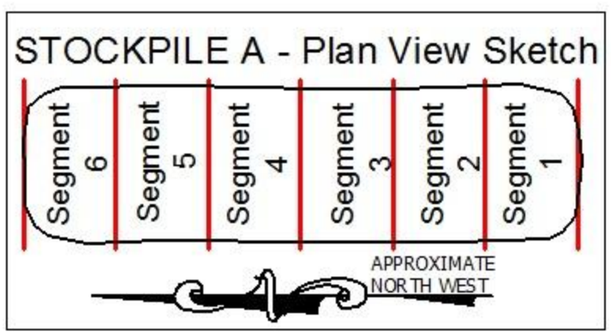


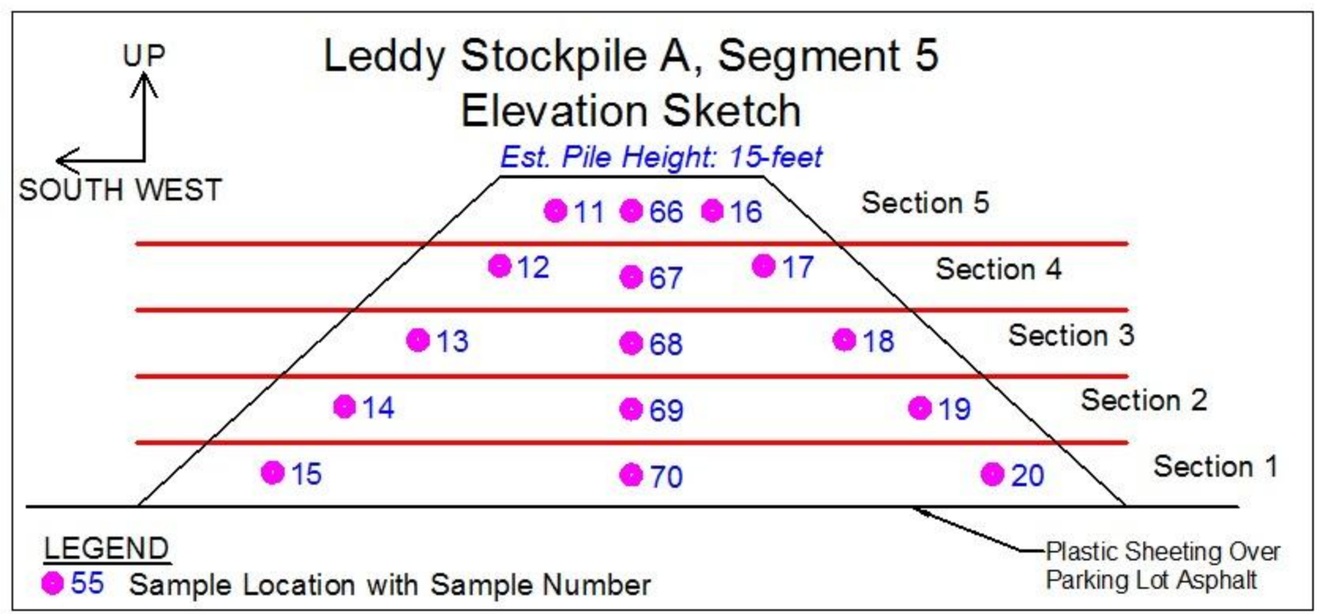


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 5)														
				Sample ID (ft-aps):	SP-A-11 (13.5)	SP-A-12 (10.5)	SP-A-13 (7.5)	SP-A-14 (4.5)	SP-A-15 (1.5)	SP-A-16 (13.5)	SP-A-17 (10.5)	SP-A-18 (7.5)	SP-A-19 (4.5)	SP-A-20 (1.5)	SP-A-66 (13.5)	SP-A-67 (10.5)	SP-A-68 (7.5)	SP-A-69 (4.5)	SP-A-70 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level																		
Analyte	Ind	Res	SSL	Units															
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	0.06	< 0.02	**0.21**	**0.24**	< 0.02	0.067	0.06	0.068	0.08	0.085	< 0.02	< 0.02	< 0.02	< 0.02	**0.2**
PCB-1260	0.99	0.24	---	mg/kg	0.085	0.062	**0.6**	**0.46**	**1.2**	0.1	0.072	0.074	0.094	0.098	0.025	0.023	0.027	0.036	0.22
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

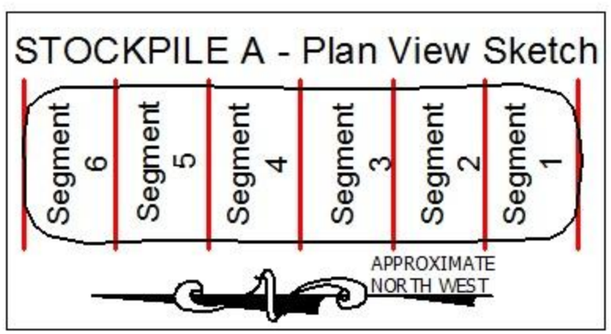


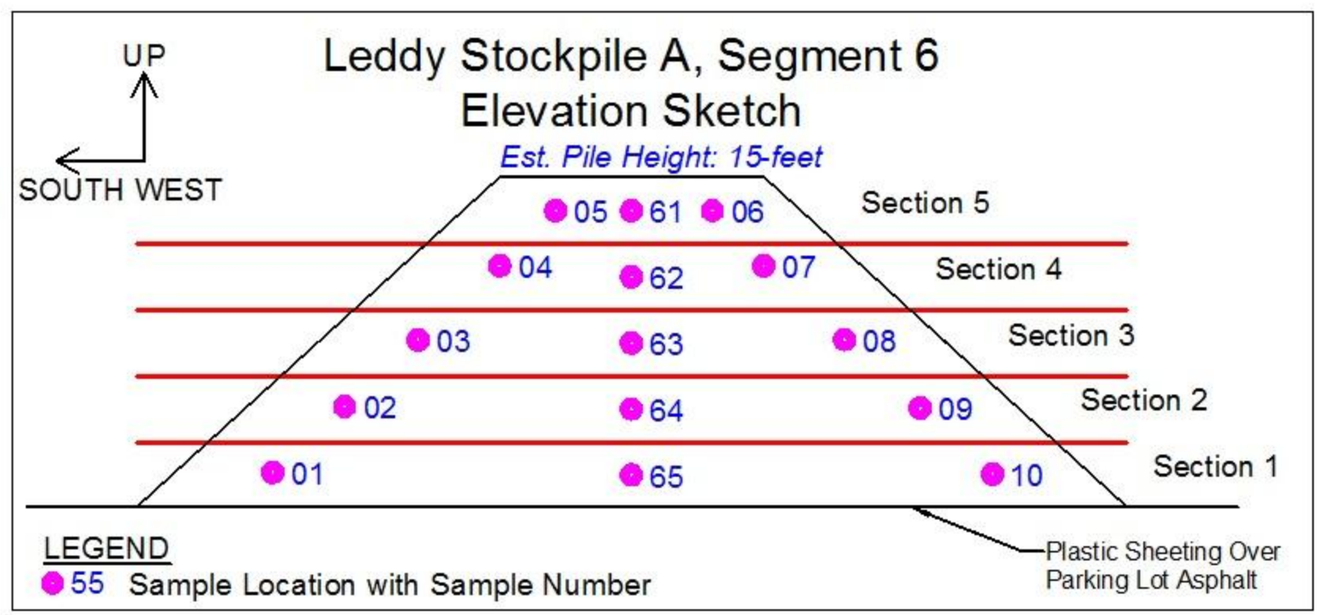


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile A (Segment 6)																		
				Sample ID (ft-aps):	SP-A-01 (1.5)	SP-A-02 (4.5)	SP-A-03 (7.5)	SP-A-04 (10.5)	SP-A-05 (13.5)	SP-A-06 (13.5)	SP-A-07 (10.5)	SP-A-08 (7.5)	SP-A-DUP-01		SP-A-09 (4.5)	SP-A-10 (1.5)	SP-A-61 (13.5)	SP-A-DUP-04		SP-A-62 (10.5)	SP-A-63 (7.5)	SP-A-64 (4.5)	SP-A-65 (1.5)
				Sample Date:	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015	9/15/2015		9/15/2015	9/15/2015	9/16/2015	9/16/2015		9/16/2015	9/16/2015	9/16/2015	9/16/2015
	Screening Level												Parent:					Parent:					
Analyte	Ind	Res	SSL	Units									SP-A-08 (7.5)	*RPD*				SP-A-61 (13.5)	*RPD*				
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	**0.16**	**0.13**	**0.13**	**0.14**	**0.12**	0.054	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	0.03	< 0.02	0.035	< 0.02
PCB-1260	0.99	0.24	---	mg/kg	**0.65**	**0.31**	**0.27**	**0.29**	0.17	0.063	0.064	0.035	0.047	*29%*	0.024	0.031	0.023	0.022	*4%*	0.037	0.033	0.044	0.026
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02



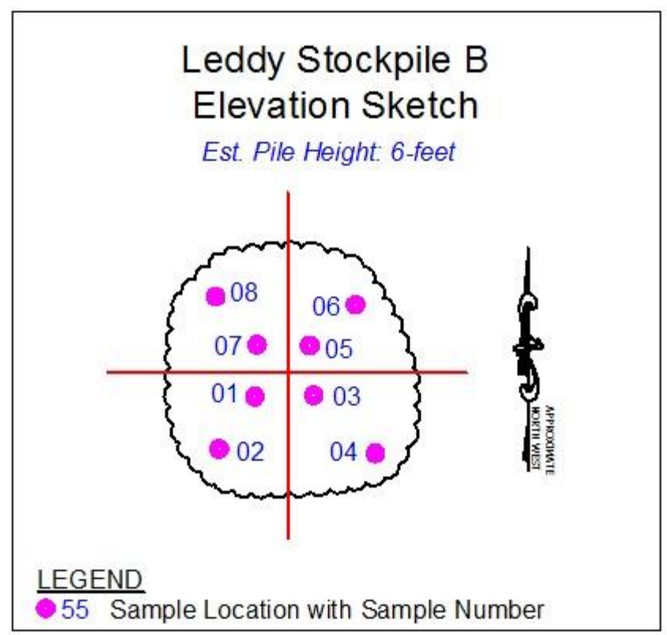


ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary

Alden Waterfront Park, Burlington, VT

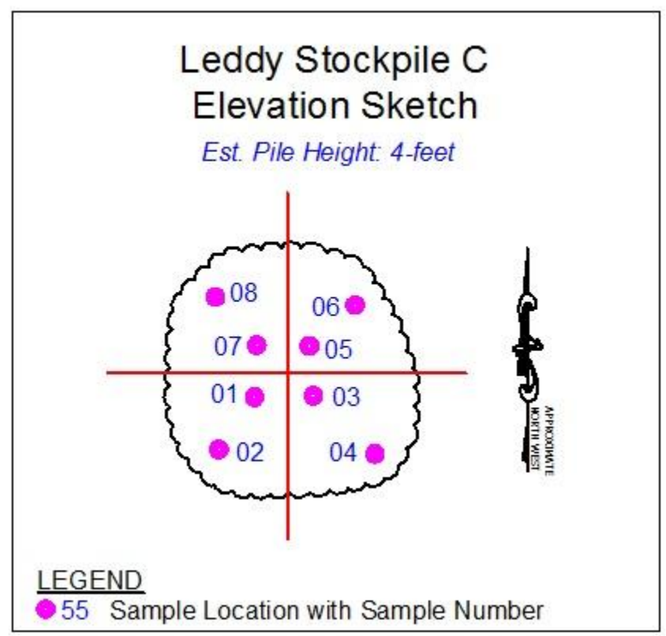
				Sample Location:	Alden Waterfront Park, Stockpile B									
				Sample ID (ft-aps):	SP-B-01 (4.5)	SP-B-02 (1.5)	SP-B-03 (4.5)	SP-B-04 (1.5)	SP-B-DUP-01		SP-B-05 (4.5)	SP-B-06 (1.5)	SP-B-07 (4.5)	SP-B-08 (1.5)
				Sample Date:	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015	9/14/2015
	Screening Level								Parent:					
Analyte	Ind	Res	SSL	Units					SP-B-04 (1.5)	*RPD*				
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1254	0.97	0.24	0.12	mg/kg	< 0.02	< 0.02	< 0.02	0.032	0.042	*27%*	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1260	0.99	0.24	---	mg/kg	< 0.02	< 0.02	< 0.02	0.052	0.063	*19%*	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02



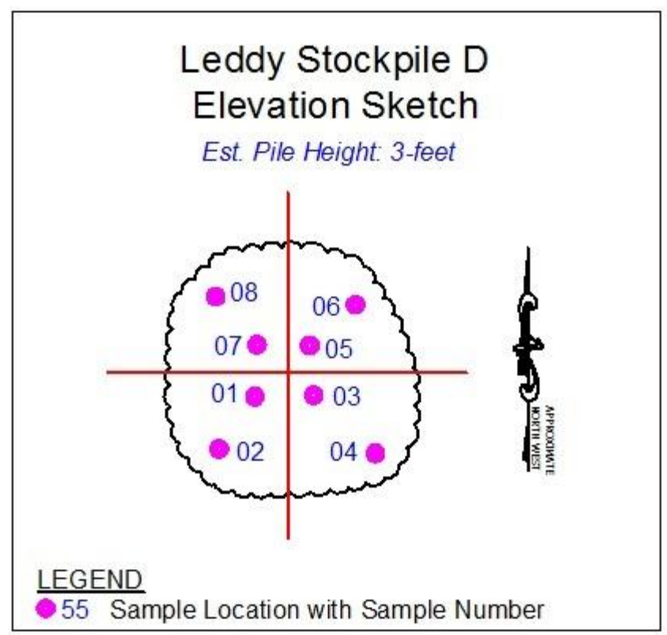
ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile C									
				Sample ID (ft-aps):	SP-C-01 (3)	SP-C-02 (1)	SP-C-DUP-01		SP-C-03 (3)	SP-C-04 (1)	SP-C-05 (3)	SP-C-06 (1)	SP-C-07 (3)	SP-C-08 (1)
				Sample Date:	9/14/2015	9/14/2015	9/14/2015		9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015
	Screening Level						Parent:							
Analyte	Ind	Res	SSL	Units			SP-C-02 (1)	*RPD*						
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	**0.23**	< 0.02	0.081
PCB-1254	0.97	0.24	0.12	mg/kg	< 0.02	0.056	0.059	*5%*	< 0.02	< 0.02	0.072	**0.12**	0.053	0.11
PCB-1260	0.99	0.24	---	mg/kg	0.037	0.086	0.087	*1%*	0.025	< 0.02	0.1	0.13	0.076	**0.25**
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	---	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02



ATTACHMENT 'E'

Table 2 - Stockpile PCB Soil Analytical Results Summary
Alden Waterfront Park, Burlington, VT

				Sample Location:	Alden Waterfront Park, Stockpile D										QC
				Sample ID (ft-aps):	SP-D-01 (1)	SP-D-02 (0.5)	SP-D-03 (1)	SP-D-04 (0.5)	SP-D-05 (1)	SP-D-06 (0.5)	SP-D-07 (1)	SP-D-08 (0.5)	SP-D-DUP-01		FB-SP-01
				Sample Date:	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015	9/14/2015		9/15/2015
	Screening Level												Parent:		Units:
Analyte	Ind	Res	SSL	Units									SP-D-08 (0.5)	*RPD*	µg/L
PCB-1016	27	4.1	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1221	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1232	0.72	0.17	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1242	0.97	0.23	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1248	0.94	0.23	---	mg/kg	< 0.02	< 0.02	**0.27**	< 0.02	< 0.02	< 0.02	0.21	0.18	< 0.02	---	< 0.2
PCB-1254	0.97	0.24	0.12	mg/kg	**0.61**	**0.2**	**0.91**	**0.19**	**1.2**	**0.66**	**0.73**	**0.73**	**2.3**	*104%*	< 0.2
PCB-1260	0.99	0.24	---	mg/kg	**0.58**	0.23	**0.64**	**0.25**	**0.75**	**1.3**	**0.64**	**0.85**	**1.1**	*26%*	< 0.2
PCB-1262	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2
PCB-1268	---	---	---	mg/kg	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	---	< 0.2