REPORT

Final Construction Engineering Report

Volume II of IV

Bern Metal/Universal Metal
Buffalo, New York

January 2003
(Revised April 2003 and May 2003)

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BLASLAND, BOUCK & LEE, INC.
engineers & scientists

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Volume II of IV
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Appendix F

Appendix F

Monitoring Well Abandonment Report (SJB Services)

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SJB SERVICES, INC.

Contract Drilling and Testing

BUFFALO OFFICE
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

September 16, 2002

Conestoga-Rovers & Associates, Inc.
460 William Pitt Way
Pittsburgh, Pennsylvania 15238
(412) 826-3733 / Fax (412) 826-3736

Attention: Pete Maltese

Reference: **Well Abandonment**
Berns Metal Site
Clinton & Bender Streets
Buffalo, New York

Dear Pete,

The following procedures where used for monitoring well abandonment at the above referenced site.

- All equipment decontaminated prior to work at each well location.
- All locations where overdrilled with 6¼-inch ID augers to depths corresponding to the bottom elevation of each well, logs attached, including the removal of PVC riser and screen and tremie cement / bentonite grout to grade.
- Material Safety Data Sheets (MSDA) for Bentonite and Portland cement are attached.

If you should have any questions, please do not hesitate to contact our office at any time.

Very truly yours,
SJB SERVICES, INC.

Joseph L. Genovese
Drilling Services Coordinator

AMERICAN COLLOID COMPANY
Industrial Chemical Division
5100 Suffield Court • Skokie, Illinois 60077
(312) 966-5720 • (312) 583-0400 • TWX 910-223-0738 • TELEX 724-413

TECHNICAL DATA

4-12-82

GENERAL PURPOSE POWDER
SPV-200

GENERAL DESCRIPTION: A low viscosity sodium bentonite exhibiting variable dry particle size.

FUNCTIONAL USE: General purpose filler in industrial products such as refractory brick.

PURITY: Hydrous silicate of alumina comprised principally of the clay mineral montmorillonite. Montmorillonite content 90% minimum. Contains small portions of feldspar, biotite, selenite, etc.

HEMICAL OMPOSITION: Typical Analysis (Moisture Free):

Silica	63.02%	as SiO_2
Alumina	21.08%	as Al_2O_3
Iron (Ferric)	3.25%	as Fe_2O_3
Iron (Ferrous)	0.35%	as FeO
Magnesium	2.67%	as MgO
Sodium & Potassium	2.57%	as Na_2O
Calcium	0.65%	as CaO
Crystal Water	5.64%	as H_2O
Trace Elements	0.72%	

CHEMICAL FORMULA: A tri-layer expanding mineral structure of approximately:
$(Al, Fe_{1.67}, Mg_{0.33})\ Si_4O_{10}\ (OH)_2\ Na{+}Ca{++}_{0.33}$

MOISTURE CONTENT: Maximum 12% as shipped.

DRY PARTICLE SIZE: Minimum 65% finer than 200 mesh (74 micron).

WET PARTICLE SIZE: Minimum 97% finer than 200 mesh (74 micron).
Minimum 95% finer than 325 mesh (44 micron).

H: 5% suspension 8.0 to 10.5.

VISCOSITY: 1 part SPV-200 to 15 parts deionized water (6.25% solids) dispersed on a high speed mixer. FANN viscosimeter 7 cps. typical. SPV-200 does not carry a minimum viscosity specification.

PACKAGING: Multiwall paper bags: 100-lb. or 50-lb. gross; or bulk.

AMERICAN COLLOID COMPANY

One North Arlington • 1500 West Shure Drive
Arlington Heights, Illinois 60004-1434 • USA
(708) 392-4600 • Telex ITT 4330321
Fax (708) 506-6199

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PRODUCT NAME: VOLCLAY GPG-30

Section III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point - Not Applicable
Vapor Pressure (mm Hg.) - Not Applicable
Vapor Density (AIR = 1) - Not Applicable
Solubility in Water - Negligible
Specific Gravity (H_2O = 1) - 2.5
Melting Point - Not Applicable
Evaporation Rate (Butyl Acetate = 1) - Not Applicable
Appearance and Odor - Pale grey to buff powder or granules, odorless

Section IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) - Not Applicable
Flammable Limits - Not Applicable LEL- - UEL- -
Extinguishing Media - Not Applicable
Special Fire Fighting Procedures - Inorganic Mineral/Non-Flammable
Unusual Fire and Explosion Hazards - Not Applicable

Section V REACTIVITY DATA

Stability Unstable - Conditions to Avoid - None Known
Stable - X

Incompatibility (Materials to Avoid) - None Known
Hazardous Decomposition or By-products - None Known

Hazardous Polymerization May Occur - Conditions to Avoid - None Known
Will Not Occur - X

Section VI HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? No

Health Hazards (Acute and Chronic) - May cause delayed respiratory disease if dust inhaled over a prolonged period of time.

Carcinogenicity: NTP? No IARC Monographs? Yes OSHA Regulated? No

IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification 2A.

Signs and Symptoms of Exposure - Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.

Medical Conditions Generally Aggravated by Exposure - Individuals with pulmonary and/or respiratory disease including but not limited to asthma and bronchitis should be precluded from exposure to dust.

Emergency and First Aid Procedures - Eyes - Flush with water.
- Gross inhalation of dust - Remove to fresh air; give oxygen or artificial respiration if necessary; get medical attention.

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PRODUCT NAME: VOLCLAY GPG-30

Section VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled - Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, the product will become slippery when wet.

Waste Disposal Method - Follow federal, state and local regulations for solid waste.

Precautions to Be Taken in Handling and Storing - Avoid breathing dust, use NIOSH/MSHA approved respirator where TLV limits for Crystalline Silica may be exceeded.

Other Precautions - Slippery when wet.

Section VIII CONTROL MEASURES

Respiratory Protection (Specify Type) - OSHA standard 1910.134 or ANSI Z88.2-1980 specification.

Ventilation	- Local Exhaust	- As appropriate	Special	- None
	- Mechanical (General)	- As appropriate	Other	- None
Protective Gloves	- Not Required		Eye Protection	- Recommended

Other Protective Clothing or Equipment - None
Work/Hygienic Practices - Use good housekeeping practices.

AMERICAN COLLOID COMPANY

One North Arlington • 1500 West Shure Drive
Arlington Heights, Illinois 60004-1434 • USA
(708) 392-4600 • Telex ITT 4330321
Fax (708) 506-6199

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MATERIAL SAFETY DATA SHEET - May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

PRODUCT NAME: VOLCLAY GPG-30

Section I MANUFACTURER'S INFORMATION

Manufacturer's Name & Address:

American Colloid Company
1500 West Shure Drive
One North Arlington
Arlington Heights, Illinois 60004

Emergency Telephone Number: 708-392-4600
Telephone Number for Information: 708-392-4600
Date Prepared: July 5, 1990

Section II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

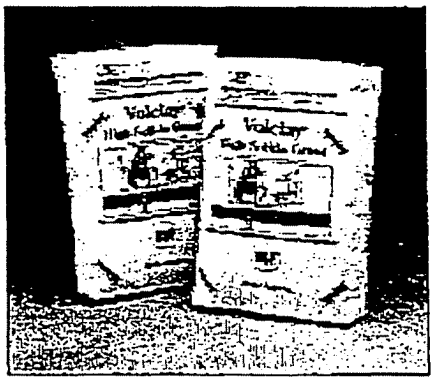
Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Crystalline Quartz CAS# 14808-60-7	*	*	*	2-6%
Respirable Crystalline Quartz				
			NIOSH	
present (TWA)	0.1mg/m^3	0.1mg/m^3 TWA	50ug/m^3 TWA	<2%
proposed (TWA)		50ug/m^3 TWA	*	*
Nuisance Dust				
- Respirable	5mg/m^3	5mg/m^3	*	*
- Total Dust	15mg/m^3	10mg/m^3	*	*

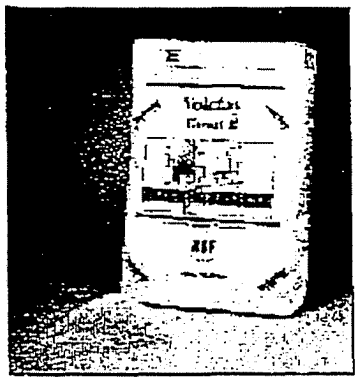
* WARNING:
This clay product contains a small amount of crystalline silica which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification 2A.

PRODUCT IDENTIFICATION

Chemical Name: Bentonite Clay
Chemical Family: Natural Mineral, Montmorillonite
CAS No.: 1302-78-9
ORMULA: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron
NFPA/HMIS: Health - 1, Fire - 0, Reactivity - 0, Specific Hazard - See Section VI
Dot Class: Not Regulated

RECEIVED DEC 0 5 1990
ENTERED DEC 0 6 1990





BENTONITE

Sodium bentonite is a naturally occurring clay mineral that has a high affinity for water. When hydrated, high grade bentonites swell 10-12 times their original bulk. Because of this valuable characteristic, high grade bentonite is specially mined and formulated to meet strict EPA guidelines for use as a los pH grout/ sealant for groundwater monitoring wells.

Volclay® One-Step Grout

Volclay® Grout is a single-component, easy-mixing, high-solids bentonite grout which contains no polymer additives. It is widely used to seal the annulus in wells, to abandon boreholes, and to grout heat pump conductor holes. Volclay® Grout has an extended pumping time and cleans up easily.

MODELS	
T-21740	Volclay® One-Step Grout, 50 lb bag

Volclay® Grout II

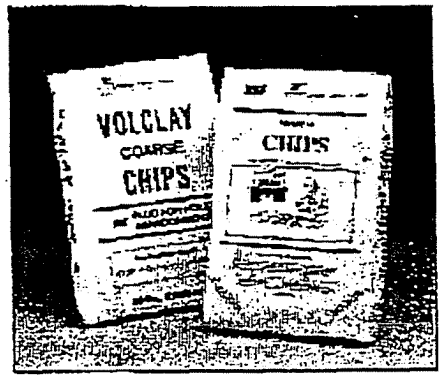
Volclay® Grout II is a granular, 25% solids, polymer-free, single component, bentonite grout. This high density grout has advantages which allow placement in a low viscosity state. Expansion of the bentonite occurs downhole, resulting in easy mixing, smooth, uniform slurry. Volclay® Grout II is designed for use in sealing well casings, geothermal heat pump loop systems, and decommissioning abandoned wells. More user-friendly than bentonite/polymer grouts

MODELS	
301026	Volclay® Grout II, 50 lb bag

Volclay® Crumbles

Volclay® Crumbles is a granular bentonite product composed of polymer-free, dried bentonite clay in various mesh sizes for use as a casing seal, hole abandonment material and for sealing earth structures. May be used as a sealant or fluid loss control additive for mud rotary drilling systems. Will not shrink or crack; rehydrates and re-swells.

MODELS	
2176	Volclay® Crumbles, 50 lb bag



Puregold® Chips

PureGold® Bentonite Chips are used for sealing and plugging shallow abandoned boreholes. They hydrate and swell in fresh water. The chips are easily installed through a tremmie pipe or simply poured down the casing. Because of their irregular size, they are not recommended for depths over 100 feet.

These chips are available in two sizes, medium and coarse. The medium chips measure from ¼ inch to ⅜ inch and the coarse measure from ⅜ inch to ⅜ inch.

MODELS	
T-21910	PureGold® Chips, medium, 50 lb bag
T-21920	Volclay Chips, coarse

Essroc
Italcementi Group

Mailing Address:
P.O. Box 12637
351 Buffalo Street
Rochester, NY 14612

Tel (716) 663 7272
Fax (716) 663 2549

To Whom It May Concern:

This is to certify that Essroc Portland Type I/II Cement fully complies with and meets all the requirements of **ASTM C150 Standard Specifications for Portland Cement.**

Yours very truly,

Essroc

James D. Whiting
Technical Service Regional Manager

JDW:jdw

"As a part of its commitment to Total Customer Satisfaction, Essroc offers free technical service to its customers. We have made every effort to insure the accuracy of the information provided to you. While this advice is intended to add value to your business, the formulation of concrete and/or mortar and the applications for which it is used must be the responsibility of the customer. Customer acknowledges this and agrees to accept Essroc's technical advice at its own risk."

Essroc
Italcementi Group

3251 Bath Pike
Nazareth, Pa. 18064

MATERIAL SAFETY DATA SHEET

Section 1 - IDENTIFICATION

Product Name: Portland Cement

CAS Reg. No.: 65997-15-1

Chemical Name and Synonyms: Portland Cement. Portland Cement is also known as hydraulic cement and cement.

MSDS Information: This Material Safety Data Sheet was produced in November 2000 and replaces any prior versions.

Chemical Family: Calcium compounds. Calcium silicate compounds and other calcium compounds containing iron and aluminum make up the majority of this product. Major products include:

$3CaO \cdot SiO_2$	Tricalcium silicate
$2CaO \cdot SiO_2$	Dicalcium silicate
$3CaO \cdot Al_2O_3$	Tricalcium Aluminate
$4CaO \cdot Al_2O_3 \cdot Fe_2O_3$	Tetracalcium aluminoferrate
$CaSO_4 \cdot 2H_2O$	Calcium sulfate dihydrate or Gypsum

Formula: This product consists of finely ground portland cement clinker mixed with a small amount of calcium sulfate dihydrate (gypsum).

Informational Phone Numbers: (800) 437-7782 Customer Service - Nazareth, PA.
(800) 338-0356 Customer Service - Speed, IN.
(800) 326-2111 Customer Service – Mississauga, Ont.

Emergency Contact Information: (800)-424-9300 Chemtrec

MSDS Prepared By: Essroc MSDS Development Committee
(610) 837-6725
November 2000

Section 2 - COMPONENTS

Hazardous Ingredients:

Portland cement (CAS# 65997-15-1) - approximately 95 to 98% by weight

ACGIH TLV-TWA (2000) = 10 mg total dust/m^3
OSHA PEL (8-hour TWA) = 15 mg total dust/m^3
OSHA PEL (8-hour TWA) = 5 mg respirable dust/m^3
LD50 – not applicable
LC50 – not applicable
IDLH = 5,000 mg/m^3

Gypsum (CAS# 13397-24-5) - approximately 2 to 5 % by weight
ACGIH TLV-TWA (2000) = 10 mg total dust/m^3
OSHA PEL (8-hour TWA) = 15 mg total dust/m^3
OSHA PEL (8-hour TWA) = 5 mg respirable dust/m^3
LD50 – not applicable
LC50 – not applicable
IDLH – not determined

Quartz (CAS# 14808-60-7) - approximately 0 to 0.30% by weight
ACGIH TLV-TWA (2000) = 0.05 mg respirable quartz dust/m^3
OSHA PEL (8-hour TWA) = (10 mg of respirable dust/m^3) / (percent silica + 2)
NIOSH REL (8-hour TWA) = 0.05 mg respirable quartz dust/m^3
LD50 – not applicable
LC50 – not applicable
IDLH = 50 mg/m^3

Trace Elements: Portland Cement is made from materials mined from the earth and is processed using energy provided by fuels. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. Trace constituents may include calcium oxide (also known as free lime or quick lime), free magnesium oxide, potassium and sodium sulfate compounds, chromium compounds, nickel compounds, and free crystalline silica.

Section 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Portland Cement is a light gray powder that poses little immediate hazard. A single short term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to wet portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns, including third degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry portland cement.

Potential Health Effects:

Relevant Routes of Exposure: Eye contact, skin contact, inhalation and ingestion.

Effects resulting from eye contact: Exposure to airborne dust may cause immediate or delayed irritation or inflammation.

Eye contact by larger amounts of dry powder or splashes of wet portland cement may cause effects ranging from moderate eye irritation to chemical burns and blindness. Such exposures require immediate first aid (see Section 4) and medical attention to prevent significant damage to the eye.

Effects resulting from skin contact: Discomfort or pain cannot be relied upon to alert a person to hazardous skin exposure. Consequently, the only effective means of avoiding skin injury or illness involves minimizing skin contact, particularly contact with wet cement. Exposed persons may not feel discomfort until hours after the exposure has ended and significant injury has occurred.

Exposure to dry portland cement may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation or other conditions. Dry portland cement contacting wet skin or exposure to moist or wet portland cement may cause more severe skin effects including thickening, cracking, or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of (caustic) chemical burns.

Some individuals may exhibit an allergic response upon exposure to portland cement, possibly due to trace amounts of chromium. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers. Persons already sensitized may react to their first contact with the product. Other persons may first experience this effect after years of contact with portland cement products.

Effects resulting from Inhalation: Portland cement may contain trace amounts of free crystalline silica. Prolonged exposure to airborne free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or other diseases. (also see "Carcinogenic potential" below.) Inhalation may also aggravate other lung conditions.

Exposure to portland cement may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose.

Effects resulting from ingestion: Although ingestion of small quantities of portland cement are not known to be harmful, ill effects are possible especially if larger quantities are consumed. Portland cement should not be eaten.

Carcinogenic potential: Portland cement is not listed as a carcinogen by the National Toxicology Program (NTP), International Agency for Research (IARC) or the Occupational Safety and Health Administration (OSHA). It may, however, contain trace amounts of substances listed as carcinogens by these organizations.

Crystalline silica, a potential trace level contaminant in portland cement, is now classified by IARC as a known human carcinogen (Group 1). NTP has characterized respirable silica as "reasonably anticipated to be a carcinogen".

Medical conditions which may be aggravated by inhalation or dermal exposure:

Pre-existing upper respiratory and lung diseases.

Unusual (hyper) sensitivity to hexavalent chromium (chromium^{+6}) salts.

Section 4 - FIRST AID

Eyes: Immediate flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes including under lids, to remove all particles. Call physician immediately.

Skin: Wash skin with cool water and pH-neutral soap or a mild detergent intended for use on skin. Seek medical treatment in all cases of prolonged exposure to wet cement, cement mixtures, liquids from fresh cement products, or prolonged wet skin exposure to dry cement.

Inhalation of Airborne Dust: Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. Inhalation of gross amounts of portland cement requires immediate medical attention.

Ingestion: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

Section 5 - FIRE AND EXPLOSION DATA

Flash Point ..... None
Lower Explosive Limit ..... None
Upper Explosive Limit ..... None
Auto ignition temperature .....Not combustible
Extinguishing media .....Not combustible
Hazardous combustion products ..... None
Unusual fire and explosion hazards.. None
Special fire fighting procedures ..... None*
* (Although portland cement poses no fire-related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire.)

Section 6 - ACCIDENTAL RELEASE MEASURES

Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section 8.

Scrape up wet material and place in appropriate container. Allow the material to "dry" before disposal. Do not attempt to wash portland cement down drains.

Dispose of waste material according to local, state, and federal regulations.

Section 7 - HANDLING AND STORAGE

Keep portland cement dry until used. Normal temperatures and pressures do not affect the material. Promptly remove dusty clothing or clothing which is wet with cement fluids and launder before reuse. Wash thoroughly after exposure to dust or wet cement mixtures or fluids.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin protection: Prevention is essential to avoid potentially severe skin injury. Avoid contact with unhardened (wet) portland cement products. If contact occurs, promptly wash affected area with soap and water. Where prolonged exposure to unhardened portland cement products might occur, wear impervious clothing and gloves to eliminate skin contact. Where required, wear boots that are impervious to water to eliminate foot and ankle exposure.

Do not rely on barrier creams; barrier creams should not be used in place of gloves.

Periodically wash areas contacted by dry portland cement or by wet cement or concrete fluids with a pH neutral soap. Wash again at the end of the work. If irritation occurs, immediately wash the affected area and seek treatment. If clothing becomes saturated with wet concrete, it should be removed and replaced with clean dry clothing.

Respiratory protection: Avoid actions that cause dust to become airborne. Use local or general ventilation to control exposures below applicable exposure limits.

Use NIOSH/MSHA-approved (under 30 CFR 11) or NIOSH-approved (under 42 CFR 84) respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust

causes discomfort or irritation. (Advisory: Respirators and filters purchased after July 10, 1998, must be certified under 42 CFR 84)

Ventilation: Use local exhaust or general dilution ventilation to control exposure within applicable limits.

Eye protection: When engaged in activities where cement dust or wet cement or concrete could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with portland cement or fresh cement products.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray or white with powder
Odor	No distinct odor
Physical state	Solid (powder)
pH (in water)(ASTM D 1293-95)	12 to 13
Solubility in water	Slightly soluble (0.1 to 1.0%)
Vapor pressure	Not applicable
Vapor density	Not applicable
Boiling point	Not applicable (i.e., >1000 deg. C)
Melting point	Not applicable
Specific gravity (H_2O = 1.0)	3.15
Evaporation Rate	Not applicable
Freezing Point	Not Applicable
Coefficient of oil to water distribution	Not Applicable

Section 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Unintentional contact with water.

Incompatibility: Wet portland cement is alkaline. As such it is incompatible with acids, ammonium salts and aluminum metal.

Hazardous decomposition: Will not spontaneously occur. Adding water results in hydration and produces (caustic) calcium hydroxide.

Hazardous polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Route of Entry..... Section 3
Effects of acute exposure to product ..... Section 3
Effects of chronic exposure to product..... Section 3
Exposure Limits.....Section 2
Irritancy of product..... Section 3
Sensitization to product..... Section 3
Carcinogenicity..... Section 3
Reproductive Toxicity..... Not Applicable
Teratogenicity..... Not Applicable
Mutagenicity..... Not Applicable
Toxicologically synergistic products..... Section 3, Section 16

For a description of available, more detailed toxicological information, call one of the informational phone numbers listed at the end of Section 1.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No recognized unusual toxicity to plants or animals.

Relevant physical and chemical properties: See sections 9 and 10.

Section 13 - DISPOSAL

Dispose of waste material according to local, state, and federal regulations. (Since portland cement is stable, uncontaminated material may be saved for future use.)

Dispose of bags in an approved landfill or incinerator.

Section 14 - TRANSPORTATION DATA

Hazardous materials description/proper shipping name: Portland cement is not hazardous under U.S. Department of Transportation (DOT) regulations.

Hazard class: Not applicable.

Identification number: Not applicable

Required label text: Not applicable.

Hazardous substances/reportable quantities (RQ): Not applicable

Section 15 - OTHER REGULATORY INFORMATION

Status under USDOL-OSHA Hazard Communication Rule, 29 CFR 1910.1200: Portland cement is considered a "hazardous chemical" under this regulation, and should be part of any hazard communication program.

Status under CERCLA/Superfund, 40 CFR 117 and 302: Not Listed

Hazard Category under SARA TITLE III, Sections 311- 312: Portland cement qualifies as a "hazard substance" with delayed health effects.

Status under SARA Title III, Section 313: This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments

and Reauthorization Act of 1986 and 40 CFR Part 372 in concentrations above deminimis levels.

Toxic Substance Control Act (TSCA): Some substances in portland cement are on the TSCA inventory list.

Status under the Federal Hazardous Substances Act: Portland cement is a "hazardous substance" subject to statutes promulgated under the subject act.

Status under Canadian Environmental Protection Act: Not listed.

Status under WHMIS: Portland cement is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A – Materials causing other toxic effects and Class E - Corrosive material) and is therefore subject to the labeling and MSDS requirements of the Workplace Hazardous Materials Information System (WHMIS).

SECTION 16 - OTHER INFORMATION

Prepared by: **Essroc MSDS Development Committee**

Abbreviations:

ACGIH	American Conference of Government Industrial Hygienists
ASTM	American Society of Testing Materials
CAS	Chemical Abstract Service
CFR	Code of Federal Regulations
DOT	Department of Transportation
IARC	International Agency for Research
IDLH	Concentration in air "Immediately Dangerous to Life and Health" (NIOSH)
m^3	cubic meter
mg	milligram
mm	millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicity Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RQ	Reportable Quantities
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TWA	Time Weighted Average
URT	Upper Respiratory Tract
WHMIS	Workplace Hazardous Material Information System

Other important information:

Portland cement should only be used by knowledgeable persons. A key to using the product safely requires the user to recognize that portland cement chemically reacts with water, and that some of the intermediate products of this reaction (that is, those present while portland cement is "setting") pose a far more severe hazard than does portland cement itself.

While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards of portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with portland cement to product portland cement products. Users should review other relevant material safety data sheets before working with this portland cement or working on portland cement products, for example, portland cement concrete.

SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY ESSROC CEMENT CORP., except that the product shall conform to contracted specifications. The information provided herein was believed by Essroc Cement Corp. to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach or warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

Date Start/Finish: 3/4/94 – 3/4/94 **Drilling Company:** Nothnagle Drilling Company **Driller's Name:** Roger Bauer **Drilling Method:** Hollow Stem Augering **Auger Size:** 4 1/4-in. **Rig Type:** D-50 Truck Mounted **Spoon Size:** 2-in. **Hammer Weight:** 140-lb **Height of Fall:** 30-in.	**Northing:** 99766.542 **Easting:** 49749.509 **Well Casing Elev.:** 106.43 ft. **Borehole Depth:** 6.0 ft. **Ground Surface Elev.:** 104.0 ft. **Geologist:** DMR	**Well No.** MW-2 6 FT **Site:** Bern Metal/Universal Site Buffalo, New York **Client:** Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft)	Microtip (ppm)	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 104.0 ft.										GROUND SURFACE	4-inch square, 5' long 316 stainless steel locking protective casing. 2-inch diameter schedule 40 PVC riser 2.5' to 2.3' stickup.
		1		17 21 24 9	45	1.5	ND			Medium dark brown SILT and fine to medium sand, trace organic vegetation, damp. – FILL – Loose brown to dark brown SILT, some coarse sand, little fine rounded gravel, slight petroleum odor, damp.	Cement bentonite grout 1.0' to surface.
		2		10 6 5 18	11	0.8	0.2			Loose orange fine to medium angular GRAVEL. Loose gray to dark gray SILT, some fine sand, trace clay, gray and white mottles of granular debris, damp.	Hydrated bentonite seal 2.0' to 1.0'
	100	3		24 5 5 4	10	0.8	ND			Loose gray to dark gray SILT, some fine sand, trace clay, trace orange brick, wet. (0-8") – FILL – Stiff brown CLAY, damp. – CLAY –	2-inch diameter schedule 40 PVC 0.010-inch slot screen 5.5' to 2.5'
5										Bottom of soil boring at 6.0 feet.	Grade OON Sand 6.0' to 2.0'
	95										
10											

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ENGINEERS & SCIENTISTS

Remarks:

Note: Frost present at a depth up to 2 feet below grade.

Water Levels

Date – Time	Elevation	Depth

Date Start/Finish: 3/2/94 – 3/2/94 Drilling Company: Nothnagle Drilling Company Driller Name: Roger Bauer Drilling Method: Hollow Stem Augering Auger Size: 4 1/4-in. Rig Type: D-50 Truck Mounted Spoon Size: 2-in. Hammer Weight: 140-lb Height of Fall: 30-in.	Northing: 99577.045 Easting: 49769.465 Well Casing Elev.: 106.66 ft. Borehole Depth: 4.0 ft. Ground Surface Elev.: 104.0 ft. Geologist: DMR	Well No. MW-3 4A Site: Bern Metal/Universal Site Buffalo, New York Client: Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Microflp (ppm)	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 104.0 ft.										GROUND SURFACE	4-inch square, 5' long 316 stainless steel locking protective casing. 2-inch diameter schedule 40 PVC riser 2.5' to 2.3' stickup.
		1		1 8 12 14	20	1.0	0.5			Medium dark brown to black SILT and fine to medium sand, wood and plastic debris, moist. – FILL –	Cement bentonite grout 1.0' to surface.
		2		4 6 8 10	14	0.8	0.5			Loose dark brown to black SILT, some fine sand, trace angular gravel, moist. – FILL – Stiff gray to brown CLAY, trace angular gravel, damp. –CLAY –	Hydrated bentonite seal 2.0' to 1.0' 2-inch diameter schedule 40 PVC 0.010-inch slot screen 3.5' to 2.5' Grade 00N Sand 4.0' to 2.0'
	100									Bottom of soil boring at 4.0 feet.	
5											
	95										
10											

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:
Note: Frost present at a depth up to 2 feet below grade.

Water Levels		
Date – Time	Elevation	Depth

Project: 778.01 Script: ROC-well Date: 11/01/94

Date Start/Finish: 3/2/94 – 3/2/94 Drilling Company: Nothnagle Drilling Company Driller's Name: Roger Bauer Drilling Method: Hollow Stem Augering Auger Size: 4 1/4-in. Rig Type: D-50 Truck Mounted Spoon Size: 2-in. Hammer Weight: 140-lb Height of Fall: 30-in.	Northing: 99610.119 Easting: 49935.015 Well Casing Elev.: 107.91 ft. Borehole Depth: 6.0 ft. Ground Surface Elev.: 105.4 ft. Geologist: DMR	Well No. MW-4 6 FT Site: Bern Metal/Universal Site Buffalo, New York Client: Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Microtip (ppm)	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 105.4 ft.										GROUND SURFACE	4-inch square, 5' long 316 stainless steel locking protective casing. 2-inch diameter schedule 40 PVC riser 3.0' to 2.4' stickup.
	105	1		130 120 40 6	160	2.0	ND			Very dense gray medium SAND and medium angular gravel, dry. – FILL – Very dense gray medium SAND, some medium angular gravel, dry.	Cement bentonite grout 1.0' to surface.
		2		15 15 8 7	23	0.5	25			Medium dark brown to black coarse SAND, some fine to medium subangular gravel, trace silt, trace brown clay mottles, slight petroleum odor, damp. – FILL –	Hydrated bentonite seal 2.0' to 1.0'
5	100	3		5 6 5 6	11	1.5	23.5			Stiff dark gray to brown CLAY, trace fine to medium gravel, slight petroleum odor, damp. – CLAY –	2-inch diameter schedule 40 PVC 0.010-inch slot screen 5.5' to 3.0'
										Bottom of soil boring at 6.0 feet.	Grade OON Sand 6.0' to 2.0'
10											

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Remarks:

Note: Frost present at a depth up to 2 feet below grade.

Water Levels

Date – Time	Elevation	Depth

Date Start/Finish: 2/15/95 / 2/15/95 **Drilling Company:** Nothnagle Drilling **Driller's Name:** Neal Short **Drilling Method:** Hollow Stem Augering **Hole Size:** N/A-in. **Auger Size :** 4 1/4-in. **Rig Type:** CME 75 **Spoon Size:** 2-in.	**Northing:** 99,450.68 **Easting:** 49,718.31 **Well Casing Elev.:** 107.47 ft. **Corehole Depth:** **Borehole Depth:** 6.0 ft. **Ground Surface Elev.:** 105.4 ft. **Geologist:** DMR	**Well No.** MW-6 6FT **Site:** Bern Metal/Universal Site, Buffalo, N.Y. **Client:** Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 105.4 ft.										GROUND SURFACE	4-inch square, 5' long 316 stainless steel locking protective casing. 2-inch diameter SCH 40 PVC riser 2.5' to -2.1' stickup.
105		1		16 36 13 6	49	1.6	0.2			Medium dense black to dark brown SILT, some fine gravel, some fine sand as cinders, dry. - FILL -	Cement bentonite grout 1.0' to surface.
		2		3 3 3 4	6	1.9	0.3			Loose black SILT, some fine gravel, some fine sand, little clay, dry. (0 to 12").	Hydrated bentonite seal 2.0' to 1.0'.
		3		2 1 2 3	3	1.2	0.2			Loose gray-brown SILT and CLAY, trace gravel and sand, faint petroleum odor, dry. Stiff brown CLAY, trace fine gravel with black staining, faint petroleum odor, moist. - CLAY -	2-inch diameter SCH 40 PVC 0.010-inch slot screen 4.5' to 2.5'. Grade 0N Sand 6.0' to 2.0'.
5	100									Bottom of soil boring at 6.0 feet.	
10	95										
15											

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Remarks:

Note: Frost present at a depth up to 6 inches below grade.

Water Levels

Date / Time	Elevation	Depth

Date Start/Finish: 2/17/95 / 2/17/95 **Drilling Company:** Nothnagle Drilling **Dr[illegible] Name:** Neal Short **D[illegible] Method:** Hollow Stem Augering **Bit Size:** N/A-in. **Auger Size :** 4 1/4-in. **Rig Type:** CME 75 **Spoon Size:** 2-in.	**Northing:** 99,787.01 **Easting:** 49,734.51 **Well Casing Elev.:** 107.02 ft. **Corehole Depth:** **Borehole Depth:** 19.0 ft. **Ground Surface Elev.:** 104.8 ft. **Geologist:** DMR	**Well No.** MW-7 17FT **Site:** Bern Metal/Universal Site, Buffalo, N.Y. **Client:** Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 104.8 ft.										GROUND SURFACE	4-inch square, 5' long 316 stainless steel locking protective casing.
										See log LBC - 3 for subsurface soil conditions.	2-inch diameter SCH 40 PVC risrer 11.4' to -2.4' stickup.
5	100										Cement bentonite grout 8.4' to ground surface.
10	95										Hydrated bentonite seal 9.4' to 8.4'.
											2-inch diameter SCH 40 PVC 0.010-inch slot screen 16.4' to 11.4'.
15	90										Grade ON Sand 16.9' to 9.4'.

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Remarks:

Water Levels

Date / Time	Elevation	Depth

Project: 778.01 Script: BBL-well Date: 08/03/95

Client:
Bern Metal/Universal
Site PRP Group

ite:
Bern Metal/Universal Site, Buffalo, N.Y.

Boring No. LBC-3
Total Depth = 17.0 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Boring Construction
		8		4 5 5 3	10	2.0	0.0			Stiff gray CLAY, trace silt, damp. - CLAY -	
										Bottom of soil boring at 17 feet.	
20	85										
25	80										
30	75										
35	70										

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Remarks:

Saturated Zones		
Date / Time	Elevation	Depth

Project: 778.01
Script: BBL-bore
Date: 07/26/95

Date Start/Finish: 2/15/95 / 2/15/95 Drilling Company: Nothnagle Drilling Driller's Name: Neal Short Drilling Method: Hollow Stem Augering Bit Size: N/A-in. Auger Size : 4 1/4-in. Rig Type: CME 75 Spoon Size: 2-in.	Northing: 99,991.48 Easting: 49,927.51 Well Casing Elev.: 100.74 ft. Corehole Depth: Borehole Depth: 11.5 ft. Ground Surface Elev.: 101.31 ft. Geologist: DMR	Well No. MW-8 11.5 FT Site: Bern Metal/Universal Site, Buffalo, N.Y. Client: Bern Metal/Universal Site PRP Group

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	PID (ppm) Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 101.31 ft.										GROUND SURFACE	Flush mount curb box with bolted lid. Concrete pad 1.0' to ground surface.
	100									See log LBC - 5 for subsurface soil conditions.	Cement bentonite grout 2.0' to 1.0'. Hydrated bentonite seal 3.0' to 2.0'. 2-inch diameter SCH 40 PVC riser 4.0' to 0.6'.
5	95										2-inch diameter SCH 40 PVC 0.010-inch slot screen 4.0' to 9.0'. Grade ON Sand 3.0' to 9.5'.
10	90									Shelby tube collected (9.5' to 11.5').	Bentonite pellets.
										Bottom of soil boring at 11.5 feet.	
15											

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Remarks:

Note: Frost present at a depth up to 6 inches below grade.

Water Levels

Date / Time	Elevation	Depth

Project: 778.01 Script: BBL-well Date: 07/26/95

Appendix G

Appendix G

Geotechnical Laboratory Test Reports for Imported Backfill Soil Materials (Geotechnics)

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WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1682	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	1149.20	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	1121.30	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	102.80	Weight of Tare (gm)	NA
Weight of Water (gm)	27.90	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	1018.50	Weight of Dry Soil (gm)	NA
Moisture Content (%)	**2.7**	**Moisture Content (%)**	**NA**

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	1018.50
Dry Weight - 3/4" Sample (gm)	430.66	Weight of minus #200 material (gm)	587.84
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	430.66
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	**Accumulated Percent Finer (%)**
12"	300	0.00	0.00	0.00	100.00	**100.00**
6"	150	0.00	0.00	0.00	100.00	**100.00**
3"	75	0.00	0.00	0.00	100.00	**100.00**
2"	50	0.00	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00	0.00	0.00	100.00	**100.00**
1"	25.0	0.00	0.00	0.00	100.00	**100.00**
3/4"	19.0	0.00	0.00	0.00	100.00	**100.00**
1/2"	12.5	0.00	0.00	0.00	100.00	**100.00**
3/8"	9.50	0.00	0.00	0.00	100.00	**100.00**
#4	4.75	8.14	0.80	0.80	99.20	**99.20**
#10	2.00	9.72	0.95	1.75	98.25	**98.25**
#20	0.85	12.45	1.22	2.98	97.02	**97.02**
#40	0.425	27.70	2.72	5.70	94.30	**94.30**
#60	0.250	63.91	6.27	11.97	88.03	**88.03**
#140	0.106	247.44	24.29	36.27	63.73	**63.73**
#200	0.075	61.30	6.02	42.28	57.72	**57.72**
Pan	-	587.84	57.72	100.00	-	-

Tested By TO Date 9/10/02 Checked By Jcm Date 9-13-02

DCN: CT-S3A DATE:02/06/01 REVISION: 4

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HYDROMETER ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Soil Color	**BROWN**

Elapsed Time (min)		R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	23.5	23.5	23.8	7.51	16.0	51.0	0.01285	0.0321	**29.4**
5		20.0	23.8	7.51	12.5	39.8	0.01285	0.0207	**23.0**
17		17.5	23.8	7.51	10.0	31.9	0.01285	0.0114	**18.4**
31		16.5	23.8	7.51	9.0	28.7	0.01285	0.0085	**16.5**
60		15.5	23.5	7.59	7.9	25.2	0.01290	0.0062	**14.6**
250		14.0	23.1	7.70	6.3	20.1	0.01296	0.0031	**11.6**
1501		12.5	23.1	7.70	4.8	15.3	0.01296	0.0013	**8.8**

Soil Specimen Data		**Other Corrections**	
Tare No.	2337		
Tare + Dry Material (gm)	137.08	a - Factor	0.99
Weight of Tare (gm)	101.03		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	57.72
Weight of Dry Material (gm)	31.05		
		Specific Gravity	2.7 Assumed

Note: *Hydrometer test is performed on - # 200 sieve material.*

Tested By TO Date 9/11/02 Checked By Jem Date 9.13.02

DCN: CT-S3A DATE:02/06/01 REVISION: 4

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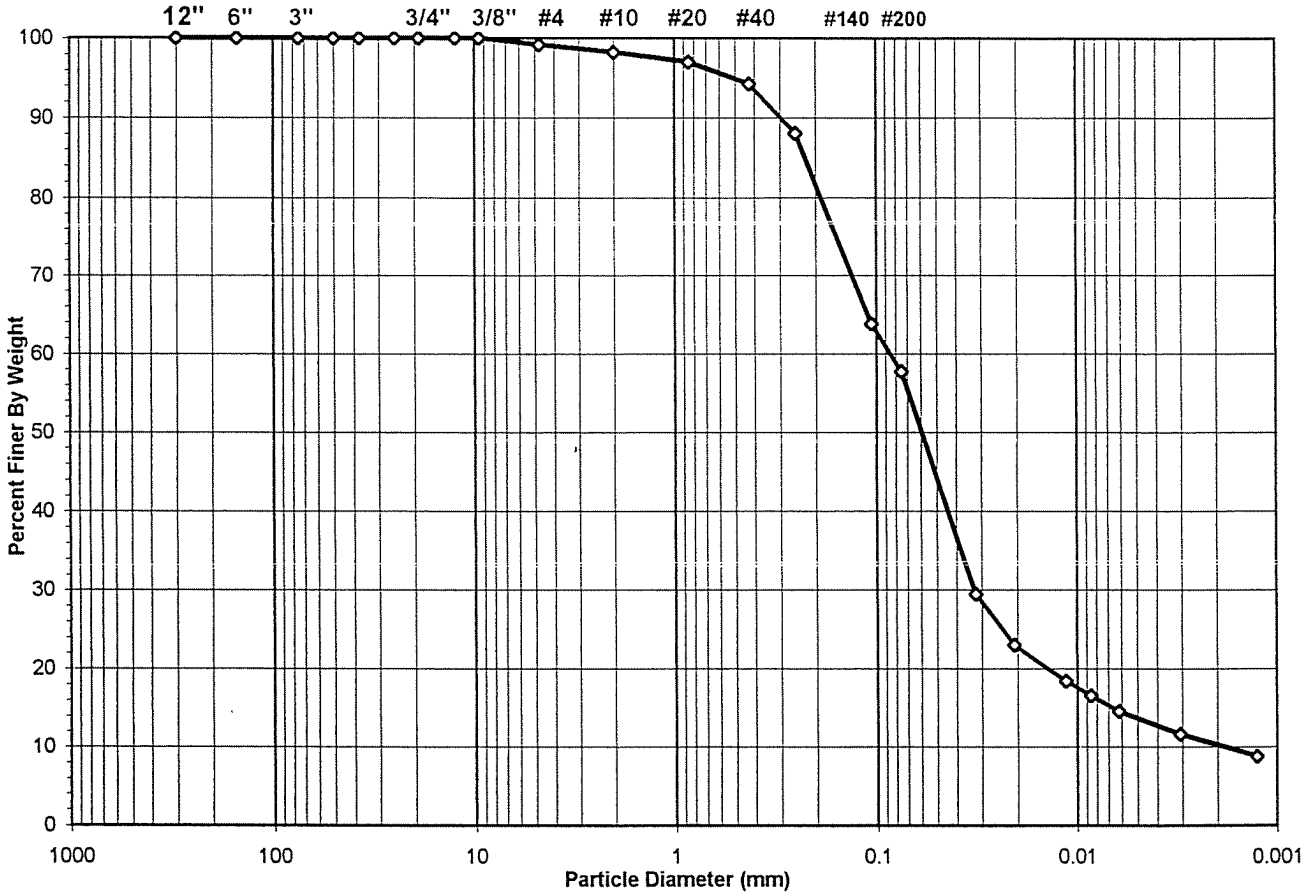
SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Soil Color	**BROWN**

	SIEVE ANALYSIS			*HYDROMETER*	
USCS	cobbles	gravel	sand	silt and clay fraction	
USDA	cobbles	gravel	sand	silt	clay



USCS Summary

Sieve Sizes (mm)		Percentage
Greater Than #4	*Gravel*	0.80
#4 To #200	*Sand*	41.48
Finer Than #200	*Silt & Clay*	57.72

USCS Symbol ***ML, TESTED***

USCS Classification ***SANDY SILT (NON-PLASTIC FINES)***

DCN: CT-S3A DATE:02/06/01 REVISION: 4

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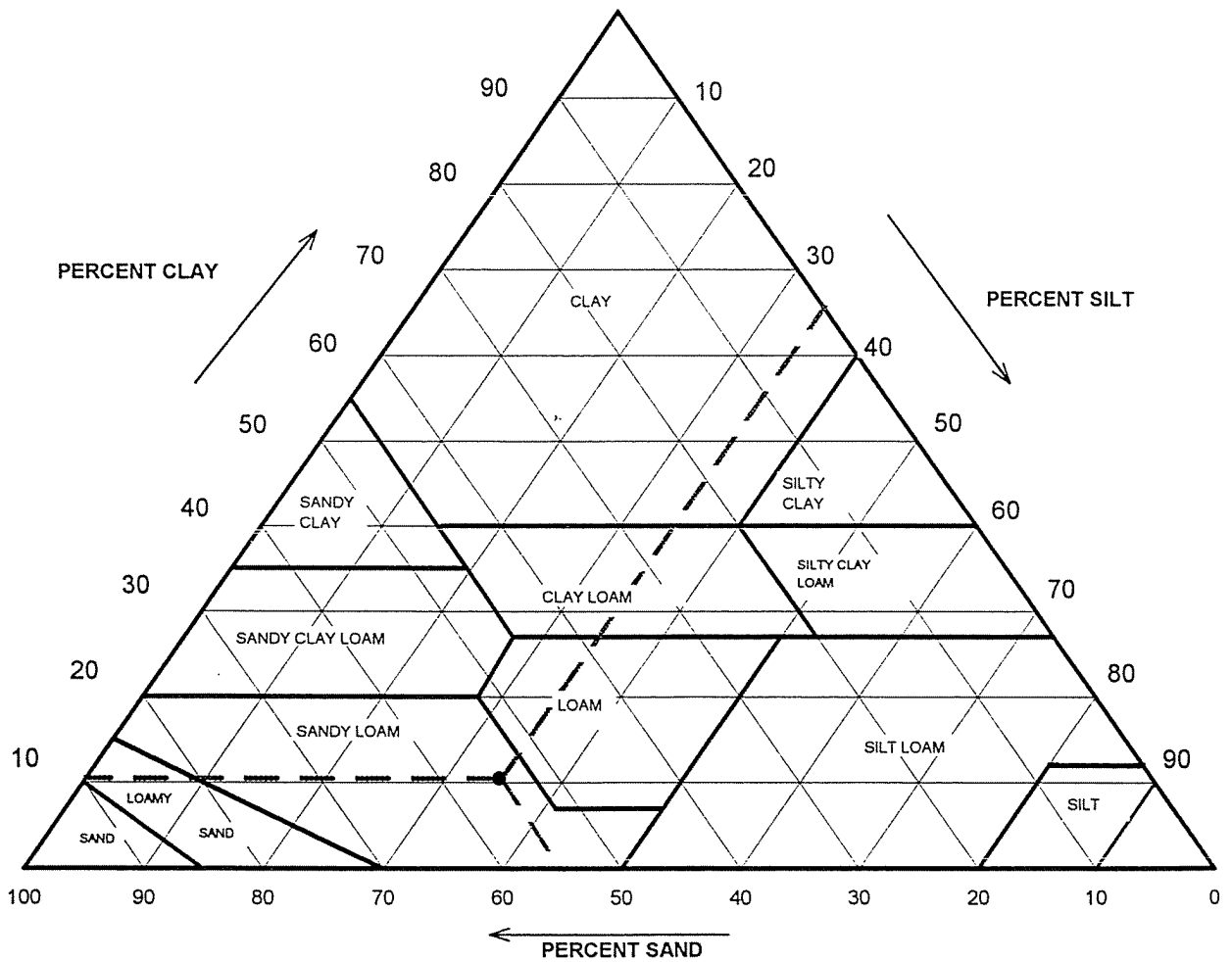
USDA CLASSIFICATION CHART

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Soil Color	BROWN



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		Gravel	1.75	**0.00**
2	98.25	*Sand*	54.03	**54.99**
0.05	44.22	*Silt*	33.96	**34.56**
0.002	10.26	*Clay*	10.26	**10.45**

USDA Classification ***SANDY LOAM***

DCN: CT-S3A DATE:02/06/01 REVISION: 4

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ATTERBERG LIMIT

ASTM D 4318-00/AASHTO T89-96, T90-00 (SOP - S4)

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Visual Description	**BROWN SILT**
			(MInus No. 40 sieve material, Airdried)

NON - PLASTIC MATERIAL

Tested By TO *Date* 9/10/02 *Checked By* JCM *Date* 9-11-02

DCN: CT-S4C DATE: 7-11-97 REVISION : 2

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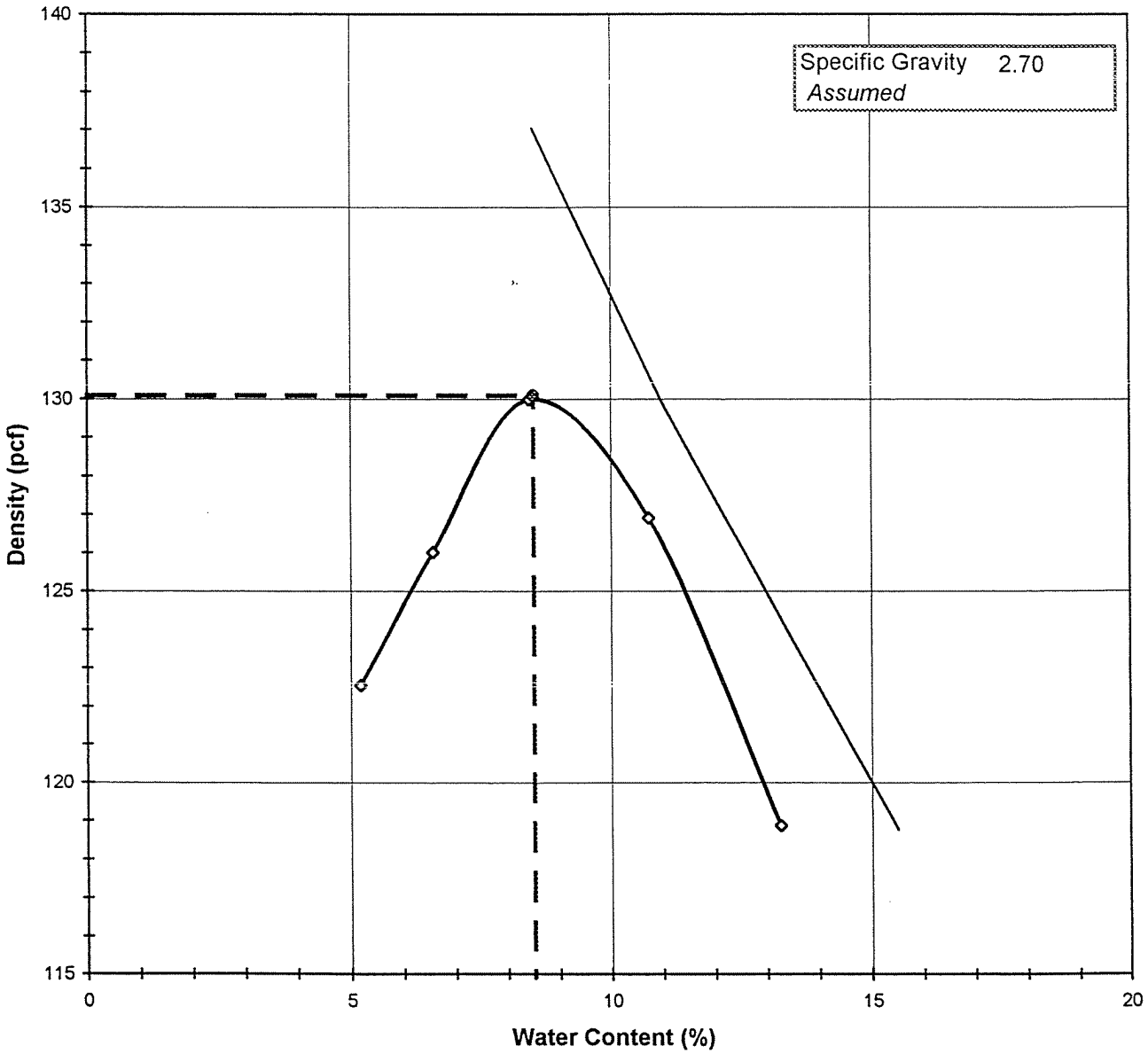
MOISTURE DENSITY RELATIONSHIP

ASTM D1557-91 SOP-S13

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01	Test Method	**MODIFIED**

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Optimum Water Content	**8.5**
Maximum Dry Density	**130.1**



Tested By *MF* *Date* *9/9/02* *Checked By* Jcm *Date* 9-10-02

DCN:CT-S12 DATE:11/17/00 REVISION 4

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MOISTURE - DENSITY RELATIONSHIP

ASTM D1557-91 SOP-S13

Client	CRA	Boring No.	N. LAFARGE
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-005
Lab ID	2002-236-02-01		

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType		MODIFIED
Rammer Weight (lbs)		10.0
Rammer Drop (in)		18
Rammer Type		MECHANICAL
Machine ID	G	441
Mold ID	G	606
Mold diameter		4"
Weight of the Mold		4227
Volume of the Mold(cc)		940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	6169	6250	6350	6344	6255
Wt.of Mold (gm)	4227	4227	4227	4227	4227
Wt. of WS	1942	2023	2123	2117	2028
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	563	1714	599	1125	609
Wt. of Tare & WS (gm)	315.74	315.05	317.80	336.55	330.95
Wt. of Tare & DS (gm)	304.25	300.76	299.75	312.09	301.88
Wt. of Tare (gm)	82.80	83.37	85.49	84.06	82.61
Wt. of Water (gm)	11.49	14.29	18.05	24.46	29.07
Wt. of DS (gm)	221.45	217.39	214.26	228.03	219.27

Wet Density (gm/cc)	2.07	2.15	2.26	2.25	2.16
Wet Density (pcf)	128.9	134.3	140.9	140.5	134.6
Moisture Content (%)	**5.2**	**6.6**	**8.4**	**10.7**	**13.3**
Dry Density (pcf)	**122.6**	**126.0**	**130.0**	**126.9**	**118.9**

Zero Air Voids

Moisture Content (%)	8.5	11.0	15.5
Dry Unit Weight (pcf)	137.0	129.9	118.8

Tested By *MF* *Date* *9/9/02* *Checked By* Jcm *Date* 9-10-02

DCN:CT-S12 DATE:11/17/00 REVISION 4

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LOSS ON IGNITION

ASTM D 2974-87 (SOP - S8)

Client	CRA
Client Reference	BERN METALS
Project No.	2002-236-02

Lab ID	01	02
Boring No.	N. LAFARGE	BUFFALO
Depth(ft).	6" MINUS	6" MINUS
Sample No.	**SPL-005**	**SPL-006**
Tare Number	25+M	7+O
Wt. Tare & WS (gm)	133.37	143.57
Wt. Tare & DS (gm)	132.43	142.48
Wt. Tare (gm)	37.32	38.43
Wt. Water (gm)	0.94	1.09
DS (gm)	95.11	104.05
Moisture Content	**1.0%**	**1.0%**

Ash Content

Wt. Tare & Ash (gm)	131.78	141.82
Wt. Volatiles (gm)	0.65	0.66
Wt. Ash (gm)	94.46	103.39
Percent Solids	**99.0%**	**99.0%**
Ash Content	**99.3%**	**99.4%**
Loss On Ignition	**0.7%**	**0.6%**

Tested By *MF* *Date* *9/20/02* *Checked By* JMO *Date* 9/25/02

DCN: CT-S8 DATE: 11-15-96 REVISION:1

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LAFARGE

September 4, 2002

CRA

Att: Pete
RE: Bern Metals
Fax: 412-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project has been produced from a natural source and is produced without contaminants.

Sincerely,

Nicholas Dolyk
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 – 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

geotechnics

WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Soil Color	**BROWN**

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	1920	Tare No.	630
Wgt.Tare + Wet Specimen (gm)	1176.00	Wgt.Tare + Wet Specimen (gm)	385.03
Wgt.Tare + Dry Specimen (gm)	1140.30	Wgt.Tare + Dry Specimen (gm)	383.75
Weight of Tare (gm)	101.35	Weight of Tare (gm)	82.63
Weight of Water (gm)	35.70	Weight of Water (gm)	1.28
Weight of Dry Soil (gm)	1038.95	Weight of Dry Soil (gm)	301.12
Moisture Content (%)	**3.4**	**Moisture Content (%)**	**0.4**

Wet Weight -3/4" Sample (gm)	16310	Weight of the Dry Specimen (gm)	1038.95
Dry Weight - 3/4" Sample (gm)	15768.2	Weight of minus #200 material (gm)	772.38
Wet Weight +3/4" Sample (gm)	302.49	Weight of plus #200 material (gm)	266.57
Dry Weight + 3/4" Sample (gm)	301.21		
Total Dry Weight Sample (gm)	16069.4	**J - Factor (Percent Finer than 3/4")**	**0.9813**

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)		Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated **Percent Finer (%)**
12"	300	0.00		0.00	0.00	100.00	**100.00**
6"	150	0.00		0.00	0.00	100.00	**100.00**
3"	75	0.00		0.00	0.00	100.00	**100.00**
2"	50	0.00	(*)	0.00	0.00	100.00	**100.00**
1 1/2"	37.5	0.00		0.00	0.00	100.00	**100.00**
1"	25.0	147.30		0.91	0.91	99.09	**99.09**
3/4"	19.0	155.19		0.96	1.87	98.13	**98.13**
1/2"	12.5	6.61		0.64	0.64	99.36	**97.50**
3/8"	9.50	4.97		0.48	1.11	98.89	**97.03**
#4	4.75	18.51		1.78	2.90	97.10	**95.28**
#10	2.00	14.46		1.39	4.29	95.71	**93.92**
#20	0.85	14.65	(**)	1.41	5.70	94.30	**92.53**
#40	0.425	14.47		1.39	7.09	92.91	**91.17**
#60	0.250	30.46		2.93	10.02	89.98	**88.29**
#140	0.106	129.75		12.49	22.51	77.49	**76.04**
#200	0.075	32.69		3.15	25.66	74.34	**72.95**
Pan	-	772.38		74.34	100.00	-	-

Notes : *(*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample*
*(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen*

Tested By TO Date 9/10/02 Checked By Jcm Date 9-13-02

DCN: CT-S3B DATE: 02/06/00 REVISION: 5

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HYDROMETER ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Soil Color	**BROWN**

Elapsed Time (min)		R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	29.0	29.0	23.8	7.51	21.5	60.6	0.01285	0.0309	**44.2**
5		26.0	23.8	7.51	18.5	52.1	0.01285	0.0199	**38.0**
16		22.0	23.8	7.51	14.5	40.8	0.01285	0.0114	**29.8**
30		20.0	23.8	7.51	12.5	35.2	0.01285	0.0085	**25.7**
66		18.0	23.5	7.59	10.4	29.3	0.01290	0.0058	**21.4**
250		15.5	23.1	7.70	7.8	22.0	0.01296	0.0030	**16.0**
1507		13.0	23.1	7.70	5.3	14.9	0.01296	0.0013	**10.9**

Soil Specimen Data		**Other Corrections**	
Tare No.	892		
Tare + Dry Material (gm)	145.03	a - Factor	0.99
Weight of Tare (gm)	104.91		
Weight of Deflocculant (gm)	5.0	Percent Finer than # 200	72.95
Weight of Dry Material (gm)	35.12		
		Specific Gravity	2.7 Assumed

Note: *Hydrometer test is performed on - # 200 sieve material.*

Tested By TO Date 9/11/02 Checked By Jcm Date 9-13-02

DCN: CT-S3B DATE: 6-23-99 REVISION: 3

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SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Soil Color	**BROWN**

	SIEVE ANALYSIS			*HYDROMETER*	
USCS	cobbles	gravel	sand	silt and clay fraction	
USDA	cobbles	gravel	sand	silt	clay

USCS Summary

Sieve Sizes (mm)		Percentage
Greater Than #4	*Gravel*	4.72
#4 To #200	*Sand*	22.33
Finer Than #200	*Silt & Clay*	72.95

USCS Symbol ***ML, TESTED***

USCS Classification ***SILT WITH SAND (NON-PLASTIC FINES)***

DCN: CT-S3B DATE: 6-23-99 REVISION: 3

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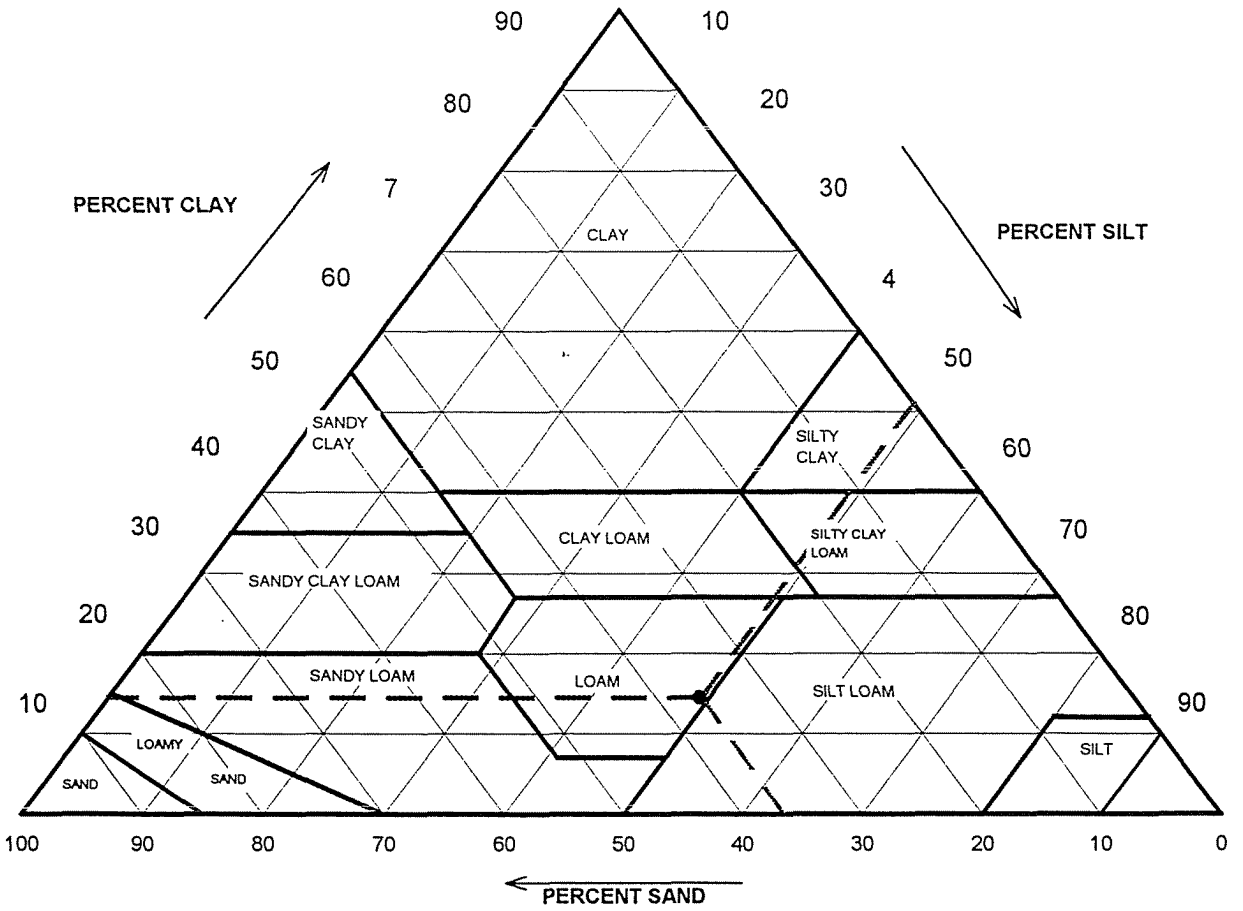
USDA CLASSIFICATION CHART

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Soil Color	BROWN



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		Gravel	6.08	**0.00**
2	93.92	*Sand*	34.11	**36.32**
0.05	59.81	*Silt*	46.21	**49.20**
0.002	13.60	*Clay*	13.60	**14.48**

USDA Classification ***LOAM***

DCN: CT-S3B DATE: 6-23-99 REVISION: 2

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ATTERBERG LIMIT

ASTM D 4318-00/AASHTO T89-96, T90-00 (SOP - S4)

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Visual Description	**BROWN SILT**
			(MInus No. 40 sieve material, Airdried)

NON - PLASTIC MATERIAL

PREVIOUSLY TESTED LIMITS

SOIL PROPERTIES	
Soil Description: Silty Clay with Sand	
Source: Buff Cr.; Wehrle (Shallower Overburden)	
C_C = n/a	
C_U = n/a	4.1 %Gravel
LL = 23	19.0 %Sand
PL = 13	76.9 % Silt & Clay
PI = 10	As Rec'd Moisture
USCS = CL-ML	13.9%

Tested By TO *Date* 9/10/02 *Checked By* JCM *Date* 9-11-02

DCN: CT-S4C DATE: 7-11-97 REVISION : 2

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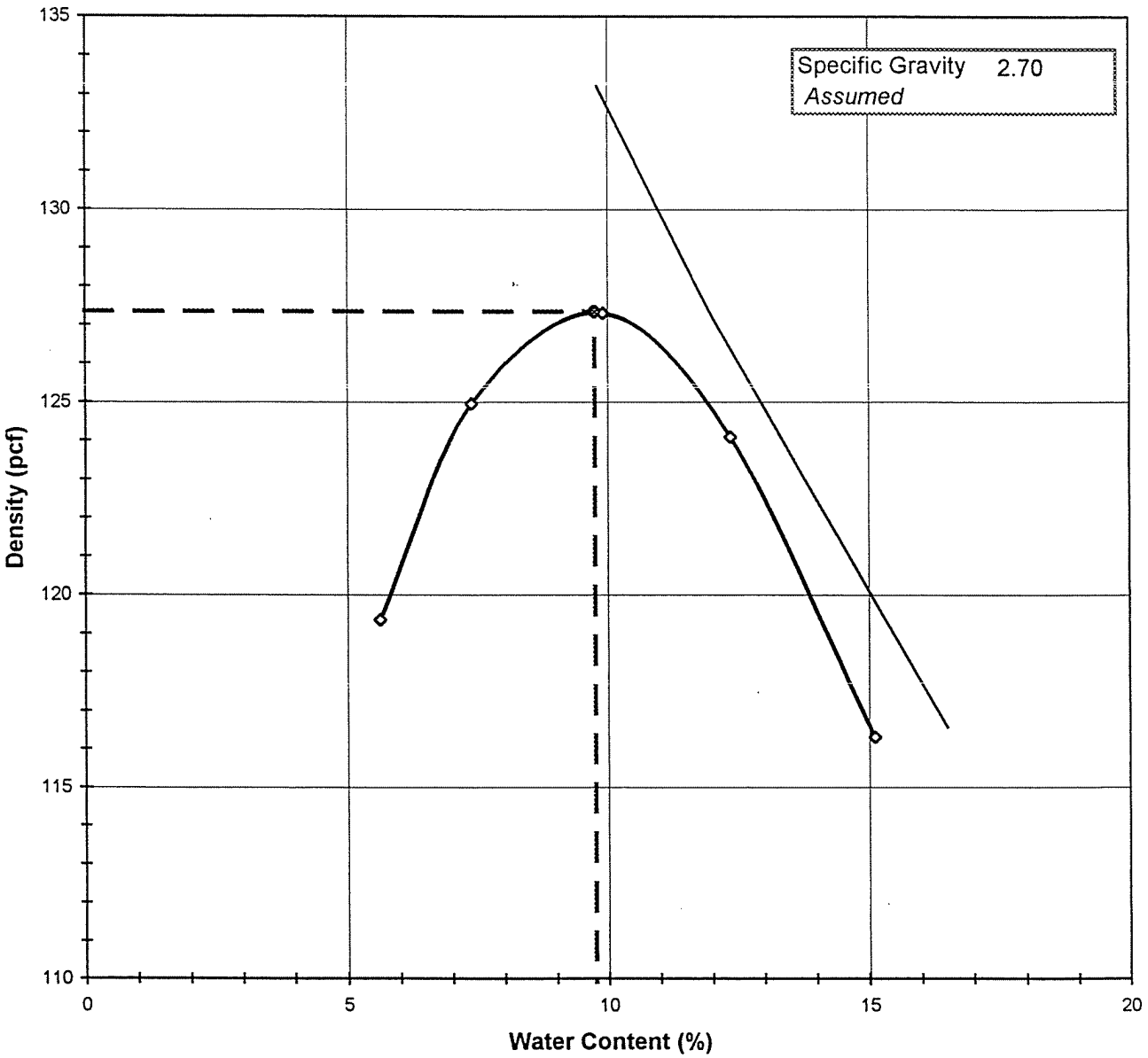
MOISTURE DENSITY RELATIONSHIP

ASTM D1557-91 SOP-S13

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02	Test Method	**MODIFIED**

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Optimum Water Content	**9.8**
Maximum Dry Density	**127.4**



Tested By *MF* *Date* *9/9/02* *Checked By* Jcm *Date* 9-10-02

DCN:CT-S12 DATE:11/17/00 REVISION 4

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MOISTURE - DENSITY RELATIONSHIP

ASTM D1557-91 SOP-S13

Client	CRA	Boring No.	BUFFALO
Client Reference	BERN METALS	Depth (ft)	6" MINUS
Project No.	2002-236-02	Sample No.	SPL-006
Lab ID	2002-236-02-02		

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	C

TestType		MODIFIED
Rammer Weight (lbs)		10.0
Rammer Drop (in)		18
Rammer Type		MECHANICAL
Machine ID	G	441
Mold ID	G	1025
Mold diameter		6"
Weight of the Mold		5615
Volume of the Mold(cc)		2122

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	9902	10178	10373	10356	10168
Wt.of Mold (gm)	5615	5615	5615	5615	5615
Wt. of WS	4287	4563	4758	4741	4553
Mold Volume (cc)	2122	2122	2122	2122	2122

Moisture Content / Density

Tare Number	1703	576	725	1126	1696
Wt. of Tare & WS (gm)	370.35	354.38	350.18	388.28	377.26
Wt. of Tare & DS (gm)	355.10	335.87	326.44	355.02	339.97
Wt. of Tare (gm)	83.85	85.04	86.83	85.81	93.31
Wt. of Water (gm)	15.25	18.51	23.74	33.26	37.29
Wt. of DS (gm)	271.25	250.83	239.61	269.21	246.66

Wet Density (gm/cc)	2.02	2.15	2.24	2.23	2.15
Wet Density (pcf)	126.1	134.2	139.9	139.4	133.9
Moisture Content (%)	**5.6**	**7.4**	**9.9**	**12.4**	**15.1**
Dry Density (pcf)	**119.4**	**125.0**	**127.3**	**124.1**	**116.3**

Zero Air Voids

Moisture Content (%)	9.8	12.0	16.5
Dry Unit Weight (pcf)	133.2	127.3	116.6

Tested By *MF* *Date* *9/9/02* *Checked By* Jcm *Date* 9-10-02

DCN:CT-S12 DATE:11/17/00 REVISION 4

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LOSS ON IGNITION

ASTM D 2974-87 (SOP - S8)

Client	CRA
Client Reference	BERN METALS
Project No.	2002-236-02

Lab ID	01	02
Boring No.	N. LAFARGE	BUFFALO
Depth(ft).	6" MINUS	6" MINUS
Sample No.	**SPL-005**	**SPL-006**
Tare Number	25+M	7+O
Wt. Tare & WS (gm)	133.37	143.57
Wt. Tare & DS (gm)	132.43	142.48
Wt. Tare (gm)	37.32	38.43
Wt. Water (gm)	0.94	1.09
DS (gm)	95.11	104.05
Moisture Content	**1.0%**	**1.0%**

Ash Content

Wt. Tare & Ash (gm)	131.78	141.82
Wt. Volatiles (gm)	0.65	0.66
Wt. Ash (gm)	94.46	103.39
Percent Solids	**99.0%**	**99.0%**
Ash Content	**99.3%**	**99.4%**
Loss On Ignition	**0.7%**	**0.6%**

Tested By MF *Date* 9/20/02 *Checked By* JMO *Date* 9/25/02

DCN: CT-S8 DATE: 11-15-96 REVISION:1

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BUFFALO CRUSHED STONE, INC.
Subsidiary of New Enterprise Stone & Lime Co., Inc.

2544 Clinton St. · P.O. Box 710 · Buffalo, NY 14224 · (716) 826-7310 · FAX (716) 826-1342

September 10, 2002

Mr. Larry Leach
Conestoga - Rover & Associates

Fax No.: 853-2709

Re: Berms Metals Project

Dear Larry:

This is to certify that the dirt fill (quarry overburden) supplied to the above referenced project is produced without contaminants. The quarry is a NYSDOT approved source; the Source Number is 5-3R.

Sincerely,

Curt Resetarits

Curt Resetarits
Account Representative

CR/dcm

LAFARGE

September 4, 2002

CRA

Attention: Pete
RE: Bern Metals
FAX: 413-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for 203.07 Select Granular Fill

Our NYSDOT source is 5-5R and our most recent test number is 98AR46.

Date: 8/30/02
Location: Lockport Source #: 5-5R
Material Type: 2" Crusher Run

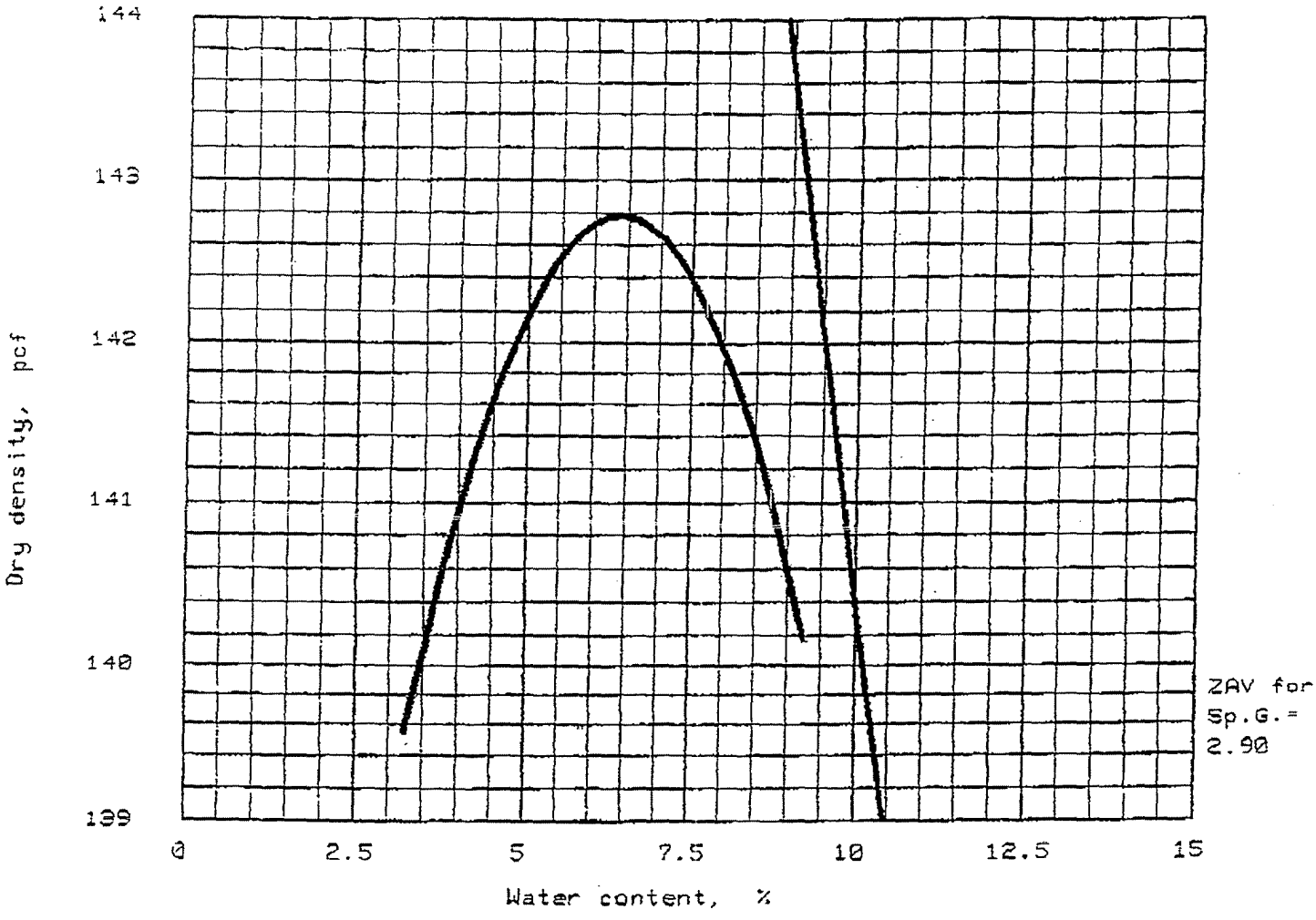
Sieve Size	Weight	% Retained	% Passing	Specification
2"	0.0	0.0	100.0	100
1 1/2"	56.3	1.9	98.1	
1"	332.1	11.2	86.9	
1/2"	696.8	23.5	63.4	
1/4"	711.6	24.0	39.4	25 - 60
1/8"	429.9	14.5	24.9	
#20	53.4	1.8	23.1	
#40	29.7	1.0	22.1	5 - 40
#80	341.0	11.5	10.6	
#200	124.5	4.2	6.4	0 - 10
pan	189.8	6.4		
Total	2965			

Sincerely,

Nicholas Dolyk
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 - 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

PROCTOR TEST REPORT



"Modified" Proctor, ASTM D 1557, Method C

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in	% < No. 200
	USCS	AASHTO						
	GP-GM	A-1-a		2.90				

TEST RESULTS	MATERIAL DESCRIPTION
Optimum moisture = 6.4 % Maximum dry density = 142.8 pcf	2" ROC STONE

Project No.: SJB-T1443 : LTR-6
Project: MATERIAL TESTING : LAFARGE CORP.
Location: LAFARGE LOCKPORT QUARRY

Remarks:
PROCTOR RESULTS FOR
SAMPLE #00-135 USING
ASTM D1557-91 METHOD C

PROCTOR TEST REPORT

SJB Services, Inc.

Figure No. _____

LAFARGE

September 4, 2002

CRA

Att: Pete
RE: Bern Metals
Fax: 412-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project has been produced from a natural gravel source and is produced without contaminants and conforms to NYSDOT Specifications. Our NYSDOT source number is 5-59F3 and test number is 98AF17.

Sincerely,

Nicholas Dolyk
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

LAFARGE

October 16, 2002

CRA

ATTENTION: Pete

FAX: 1-412-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for Item #703-02 Crushed #3 Stone.

Our NYSDOT source is 5-5R and our most recent test number is 98AR46.

Date: 10/11/02
Location: Lockport Source #: 5-5R
Material Type: #3 Stone

Sieve Size	Weight	% Retained	% Passing	Specification
3"	0.0	0.0	100.0	
2 1/2"	0.0	0.0	100.0	100
2"	23.2	1.7	98.3	90-100
1 1/2"	637.5	46.7	51.6	35-70
1"	582.9	42.7	8.9	0-15
1/2"	73.7	5.4	3.5	
1/8"	21.8	1.6	1.9	
#20	12.3	0.9	1.0	
#80	1.4	0.1	0.9	
#200	6.8	0.5	0.4	
pan	5.5	0.4		
Total	1365.2			

Sincerely,

Nicholas Dolyk
Quality Control Technician

ONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

LAFARGE

October 16, 2002

CRA

Att: Pete
Fax: 412-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for Item #703-02 Crushed #4 Stone.

Our NYSDOT source is 5-5R and our most recent test number is 98AR46.

Date: 10/11/02
Location: Lockport Source #: 5-5R
Material Type: #4

Sieve Size	Weight	% Retained	% Passing	Specification
4"	0.0	0.0	100.0	
3"	22.1	1.1	98.9	
2"	981.3	48.9	50.0	
1 1/2"	270.9	13.5	36.5	
1"	650.2	32.4	4.1	
1/2"	38.1	1.9	2.2	
1/8"	6.0	0.3	1.9	
#20	18.1	0.9	1.0	
#80	2.0	0.1	0.9	
#200	10.0	0.5	0.4	
pan	8.0	0.4		
Total	2006.8			

Sincerely,

Nicholas Dolyk
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

LAFARGE

October 15, 2002

CRA
ATT: Pete

Fax: 412-826-3736

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for Item 6" Surge Material out of the Lockport location.

Our NYSDOT source is 5-5R and our most recent test number is 98AR46.

Date: 10/1/02
Location: Lockport Source #: 5-5R
Material Type: Surge 6"

Sieve Size	Weight	% Retained	% Passing	Specification
6"	0.0	0.0	100.0	
5"	6.8	0.1	100.0	
4"	8814.0	65.0	35.0	
3"	2712.0	20.0	15.0	
2"	1356.0	10.0	5.0	
1"	406.8	3.0	2.0	
1/2"	135.6	1.0	1.0	
1/4"	0.0	0.0	1.0	
1/8"	0.0	0.0	1.0	
#200	108.5	0.8	0.2	
pan	27.1	0.2		
Total	13566.8			

Sincerely,

Nicholas Dolyk
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
O Box 510 ~ 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

LAFARGE

October 14, 2002

Att: Pete
RE:
Fax: 412-826-3736

To whom it may concern:

This is to certify that the material being supplied to CRA
conforms to the outlines specifications for NYSDOT Coarse and fine
Aggregates, of Section 703-01 and ASTM C-33. All Material being supplied
to the project comes from a natural source and contains no contaminants,and is from our
Our NYSDOT source # is 5-5R and our most recent test number is 98AR46.

Sincerely,

C R Hess

Courtland R. Hess
Quality Control Technician

CONSTRUCTION MATERIALS / NORTHERN DIVISION
PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094
Office: (716) 439-1300 Fax: (716) 439-9447

geotechnics

pH OF SOILS
ASTM D 4972-95a / AASHTO T 289-91
(SOP- S36)

Client	CRA
Client Reference	BERN METALS
Project No.	2002-236-04

Lab ID		01	02
Boring No.		LINA	HEINRICK
Depth (ft)		TOPSOIL	TOPSOIL
Sample No.		SPL-011	SPL-012
Drying Tare No.		598	555
Testing Tare No.		A	D
Temperature (°C)		22	22
pH of Sample	***Test 1***	**6.1**	**5.8**
	Test 2	**6**	**5.8**

Meter Calibration

Buffer pH	Meter Reading	Meter Model
4.0	4.1	ORION 720A
7.0	7.0	

pH of Deionized Water (Acceptable range 6.5-7.5)	7.2

Tested By KBL Date 10/8/02 Checked By Jm Date 10-10-02

DCN: CT-S36 DATE 2/16/01 REVISION: 3

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544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

geotechnics

LOSS ON IGNITION

ASTM D 2974-87 (SOP - S8)

Client	CRA
Client Reference	BERN METALS
Project No.	2002-236-04

Lab ID	01	02
Boring No.	LINA	HEINRICK
Depth(ft).	TOPSOIL	TOPSOIL
Sample No.	**SPL-011**	**SPL-012**
Tare Number	O+7	M+25
Wt. Tare & WS (gm)	113.63	116.5
Wt. Tare & DS (gm)	109.39	106.25
Wt. Tare (gm)	38.43	37.3
Wt. Water (gm)	4.24	10.25
Wt. DS (gm)	70.96	68.95
Moisture Content	**6.0%**	**14.9%**

Ash Content

Wt. Tare & Ash (gm)	106.39	102.98
Wt. Volatiles (gm)	3	3.27
Wt. Ash (gm)	67.96	65.68
Percent Solids	**94.4%**	**87.1%**
Ash Content	**95.8%**	**95.3%**
Loss On Ignition	**4.2%**	**4.7%**

Tested By DDA *Date* 10/8/02 *Checked By* Jam *Date* 10-10-02

DCN: CT-S8 DATE: 11-15-98 REVISION 1

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544 Braddock Avenue • East Pittsburgh, PA 15112 • Phone (412) 823-7600 • Fax (412) 823-8999

Buffalo Creek, Inc.

Site Development • Excavation • Snow Removal

SPL - 011

October 24, 2002

To: CRA

Attention: Pete M.

We hereby certify that, to the best of our knowledge, the topsoil we are supplying is clean. The location of the topsoil is Route 20A, Wales Center, New York. If you so desire, you are welcome to test the topsoil, at your own expense.

Dana M. Donnelly
President

11800 Route 20A • Wales Center, New York 14169 • (716) 652-3768 • (716) 655-1141
Website: http://www.bflocreek.com • Email: buffalocreek@adelphia.net

ABC Associated Builders and Contractors, Inc.

Buffalo Creek, Inc.

Site Development • Excavation • Snow Removal

January 13, 2003

Mr. Pete Maltese
CRA Services
460 William Pitt Way
Pittsburgh, PA 15238

Dear Pete,

The topsoil from Route 391 in Boston, New York that was sold to CRA is free of any contamination, to the best of our knowledge. Further testing of the topsoil would be needed to verify our belief at your cost.

Sincerely,

Dana M. Donnelly
President

11800 Route 20A • Wales Center, New York 14169 • (716) 652-3768 • Fax (716) 655-1141
Website: http://www.bflocreek.com • Email: buffalocreek@adelphia.net

ABC

Appendix H

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Appendix H

UST Closure Report (Natures Way Environmental)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

CRITTENDEN
(716) 937-6527
SENECA FALLS
(315) 568-1664

Underground Storage Tank Removal and
Associated Petroleum Contaminated Soils Excavation Report
18 Bender Avenue
Buffalo, New York

Underground Storage Tank (UST) removal and associated environmental remediation services were performed by Nature's Way Environmental Consultants and Contractors, Inc. (NWEC&C, Inc.) under contract to Conestoga-Rovers & Associates, Inc. (CRA, Inc.), on a parcel located at 18 Bender Avenue, Buffalo, New York. One (1) 10000 gallon former petroleum UST, discovered during unrelated site activities was de-commissioned. Petroleum impacted soils encountered in the area surrounding the tank were excavated and disposed of.

Tank removal efforts, as well as associated petroleum contaminated soils removal at the above referenced site, commenced on September17th, 2002 and continued through September 18th, 2002. One (1) 10000 gallon UST was located, and liquid contents were transferred (pumped) into three (3) 55 gallon drums. This tank was further uncovered, removed, inerted, cut, cleaned (tank bottom sludge and solids generated during tank cleaning operations were placed in a fourth 55 gallon drum) and scrapped. An Organic Vapor Meter (as well as visual and olfactory observations) was utilized by an on-site NWEC&C, Inc. field technician to provide an objective basis for soil screening; soils exhibiting an OVM reading of greater than10 ppm were considered to be contaminated and removed.

Drummed tank contents (3 drums of liquid, 1 drum of solids) were transported to Industrial Oil Tanks Services, Inc., Oriskany, New York for recycling (liquid) and disposal (solids).

1200 gallons of petroleum contaminated ground-water which collected within the excavation was removed with a NWEC&C, Inc. Vac-Truck and transported to Industrial Oil Tank Services, Oriskany, New York for treatment / disposal.

Petroleum contaminated soils were staged on plastic on-site, until landfill characterization analysis was complete, and landfill approval was received. Soils were loaded into trucks permitted to haul special waste by CRA, Inc. (overseen by NWEC&C, Inc.) On October 22nd, and transported to the Waste Management Chaffee Landfill Facility, in Chaffee, New York. A total of 460.85 tons of associated petroleum impacted soils were excavated and transported to the Waste Management Chaffee Landfill Facility, in Chaffee, New York.

Disposal documentation is included in Attachment 1 of this report.

3553 CRITTENDEN ROAD • CRITTENDEN, NEW YORK 14038 • FAX: (716) 937-9360
1771 AUBURN ROAD • SENECA FALLS, NEW YORK 13148 • FAX (315) 568-9179

CRITTENDEN
(716) 937-6527
SENECA FALLS
(315) 568-1664

Once excavation was complete (exhibiting OVM readings less than 10 ppm), confirmatory samples were secured from the final excavation walls (north, south, east and west) and bottom. These samples were then submitted to Life Science Laboratories, Inc. and analyzed for the presence of NYSDEC STARS List volatile organic compounds by EPA Methods 8021.

There were no STARS list compounds identified in any of the samples at concentrations above laboratory detection limits and therefore applicable regulatory guidance values contained in NYSDEC TAGM #4046 for the NYSDEC STARS List for volatile organic compounds. Copies of the laboratory analytical reports are included as Attachment 2 of this report.

Based upon this information, we request that the existing petroleum spill file for the site be closed with the designation "meets standards."

Respectfully Submitted;

Jaimee L. Hall
NWEC&C, Inc.

3553 CRITTENDEN ROAD • CRITTENDEN, NEW YORK 14038 • FAX (716) 937-9360
1771 AUBURN ROAD • SENECA FALLS, NEW YORK 13148 • FAX (315) 568-9179

CRITTENDEN
(716) 937-6527
SENECA FALLS
(315) 568-1664

Attachment 1
Disposal Documentation

3553 CRITTENDEN ROAD • CRITTENDEN, NEW YORK 14038 • FAX (716) 937-9360

NATURE'S WAY
ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN
(716) 937-6527
SENECA FALLS
(315) 568-1664

October 14, 2002

Mr. James Callahan
Waste Management, Inc.
Chaffee Landfill
10860 Olean Road
Chaffee, NY 14030

Re: Application For Disposal
18 Bender Ave.
Buffalo, Erie County

Dear Mr. Callahan:

Please find the following information with respect to the disposal of petroleum contaminated soil represented by the attached application for disposal.

The material in question was generated as a result of remedial operations following discovery of an historic petroleum Underground Storage Tank during a broader remediation effort in which lead contaminated surface soils were being excavated and consolidated for on site retention.

Nature's Way Environmental Consultants & Contractors, Inc. was retained to remove the tank. Upon its removal petroleum impacted soils were encountered. NYSDEC was notified of this discovery. Approximately 350 tons of impacted soil was excavated and stockpiled. A composite soil sample was analyzed via TCLP protocol for characterization purposes. Results of this analysis confirm that the material in question is non-hazardous and acceptable for disposal at your facility.

Please contact me if you should have any questions or require additional information.

Sincerely,

Gregory J. Weber
Sr. Project Manager

3553 CRITTENDEN ROAD • CRITTENDEN, NEW YORK 14038 • FAX

WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? [X] YES [ ] NO
[ ] Hazardous [X] Non-Hazardous [ ] TSCA

Profile Number: WMI
Renewal Date: / /

A. Waste Generator Information

1. Generator Name: Berp Metals/Universal Metals Site Potentially Responsible Parties
2. SIC Code:
3. Facility Street Address: 18 Bender Ave.
4. Phone: (412) 826-3733 CRA, Inc.
5. Facility City: Buffalo
6. State/Province: New York
7. Zip/Postal Code: 14206
8. Generator USEPA/Federal ID #: NA
9. County: Erie
10. State/Province ID #: NA
11. Customer Name: Nature's Way Environmental
12. Customer Phone: (716) 937-652
13. Customer Contact: R. Saucce/G. Weber
14. Customer Fax: 937-9360
15. Billing Address 3553 Cittenden Rd. Cittenden, New York 14038 [ ] Same as above

B. Waste Stream Information

1. Description
   a. Name of Waste: Soil Contaminated with Petroleum
   b. Process Generating Waste: Leaking UST. Soil to be disposed of was excavated from the area surrounding a former petroleum UST. Tank was discovered during remediation of lead contaminated soils on site.

c. Color	d. Strong odor (describe):	e. Physical state @ 70°F	f. Layers	g. Free liquid range
Brown	Moderate Petroleum Odor	[X] Solid [ ] Liquid [ ] Gas [ ] Sludge [ ] Other	[X] Single Layer [ ] Multi-layer	NA to % No Free Liquid
				h. pH: Range 6.0 to 9.0 %

i. Liquid Flash Point: [ ] <73°F [ ] 73-99°F [ ] 100-139°F [ ] 140-199°F [ ] ≥ 200°F [X] Not applicable

j. Chemical Composition (List all constituents (including halogenated organics, debris, and UHC's) present in any concentration and submit representative analysis):

Constituents	Concentration Range	Constituents	Concentration Range
Soil & Stone	>99 %		
Petroleum Products	<1 %		

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. [ ] Oxidizer [ ] Pyrophoric [ ] Explosive [ ] Radioactive
[ ] Carcinogen [ ] Infectious [ ] Shock Sensitive [ ] Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.j) [ ] YES [X] NO
m. Does the waste represented by this profile contain dioxins? (list in Section B.1.j) [ ] YES [X] NO
n. Does the waste represented by this profile contain asbestos? [ ] YES [X] NO
If yes [ ] friable [ ] non-friable
o. Does the waste represented by this profile contain benzene? [ ] YES [X] NO
If yes, concentration <1 ppm ppm
Is the waste subject to the benzene waste operations NESHAP? [ ] YES [X] NO
p. Is the waste subject to RCRA Subpart CC controls? [ ] YES [X] NO
If yes, volatile organic concentration ppmw
q. Does the waste contain any Class I or Class II ozone-depleting substances? [ ] YES [X] NO
r. Does the waste contain debris? (list in Section B.1.j) [ ] YES [X] NO

Quantity of Waste
Estimated Annual Volume 350 [X] Tons [ ] Yards [ ] Drums [ ] Other specify)

3. Shipping Information
   a. Packaging:
   [X] Bulk Solid; Type/Size: Dump Truck [ ] Bulk Liquid; Type/Size:
   [ ] Drum: Type; Size: [ ] Other:
   b. Shipping Frequency: Units 350 Tons Per: [ ] Month [ ] Quarter [ ] Year [X] One time [ ] Other
   c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) [ ] YES [X] NO
   d. Reportable Quantity (lbs.; kgs.):
   e. Hazard Class/ID #:
   f. USDOT Shipping Name:

WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA Tarp Load for Transport

h. Transporter & Transporter Number Zoladz Construction Co. - Inc.

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. ☐YES ☒NO
   a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U)
   b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (if yes, list in Section B.1.j) ☐YES ☐NO
   c. Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.) ☐YES ☐NO
2. Is this a state hazardous waste? ☐YES ☒NO
   Identify ALL state hazardous/non hazardous waste codes
3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? ☐YES ☒NO
   If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? ☐YES ☒NO
5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.j) ☐YES ☒NO
   a. If yes, were the PCBs imported into the U.S.? ☐YES ☐NO
6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? ☒YES ☐NO
   Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? ☒YES ☐NO

☐Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: Title: Owner Date: 10/11/02

Name (Type or Print): DAN TRESLO Company Name:

☒Check if additional information is attached. Indicate the number of attached pages

D. WMI Management's Decision FOR WMI USE ONLY

1. Management Method ☐Landfill ☐Non-hazardous Solidification ☐Bioremediation ☐Incineration ☐Hazardous Stabilization ☐Other (Specify)
2. Proposed Ultimate Management Facility: Chaffee Landfill
3. Precautions, Special Handling Procedures, or Limitation on Approval:

4. Waste Form 5. Source 6. System Type

Special Waste Decision ☐Approved ☐Disapproved

Salesperson's Signature: Date:

NYSDEC Region 9 Approval: Date:

Special Waste Approvals Person Signature: Date:

Russ Savage
Natures Way Environmental
3553 Crittenden Rd
Crittenden, NY 14038

Phone: (716) 937-6527
FAX: (716) 937-9360

Revised Laboratory Analysis Report
For
Natures Way Environmental

LSL Project ID: **0213525**

Receive Date/Time: 09/18/02 17:00

Project Received by: KH

Life Science Laboratories, Inc.

LSL Central Lab	LSL North Lab	LSL Finger Lakes Lab	LSL Southern Tier Lab	LSL Middlesex Lab
5854 Butternut Drive	131 St. Lawrence Avenue	16 N. Main St., PO Box 424	30 East Main St.	5611 Water St.
East Syracuse, NY 13057	Waddington, NY 13694	Wayland, NY 14572	Cuba, NY 14727	Middlesex, NY 14507
Tel. (315) 445-1105	Tel. (315) 388-4476	Tel. (585) 728-3320	Tel. (585) 968-2640	Tel. (888) 841-5227
Fax (315) 445-1301	Fax (315) 388-4061	Fax (585) 728-2711	Fax (585) 968-0906	Fax. (585) 554-4114
NYS DOH ELAP #10248	NYS DOH ELAP #10900	NYS DOH ELAP #11667	NYS DOH ELAP #10760	NYS DOH ELAP #11369

report was reviewed by: Lynda M. Hart *Date:* 10/16/02

Life Science Laboratories, Inc

A copy of this report was sent to:

Original Report Date: 10/07/02

Date Printed: 10/16/02

- - REVISED LABORATORY ANALYSIS REPORT - -

Natures Way Environmental *Crittenden, NY*

Sample ID: 52949, Stockpiled Contam. Soil - Comp. **LSL Sample ID:** 0213525-001

I tion: CRA-Bern Metals

Sampled: 09/18/02 0:00 **Sampled By:** TK

Sample Matrix: SHW As Recd.

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(5) ASTM E-502-84 Ignitability					
Ignitability	>60	Degrees C		9/24/02	DWK
(1) EPA 1311 TCLP Extraction					
TCLP Non-Volatile Extraction				9/23/02	PEF
(5) EPA 1311 TCLP Z.H. Extraction					
TCLP Zero Headspace Extraction					
(1) EPA 6010 TCLP Metals					
Arsenic	<1	mg/l	9/23/02	9/24/02	PEF
Barium	<5	mg/l	9/23/02	9/24/02	PEF
Cadmium	<0.5	mg/l	9/23/02	9/24/02	PEF
Chromium	<1	mg/l	9/23/02	9/24/02	PEF
Lead	<1	mg/l	9/23/02	9/24/02	PEF
Selenium	<0.5	mg/l	9/23/02	9/24/02	PEF
Silver	<1	mg/l	9/23/02	9/24/02	PEF
(1) EPA 7471 TCLP Mercury					
Mercury	<0.002	mg/l	10/3/02	10/3/02	PEF
(1) EPA 8082 PCB's					
Aroclor-1016	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1221	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1232	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1242	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1248	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1254	<0.2	mg/kg	10/3/02	10/3/02	CRT
Aroclor-1260	0.58	mg/kg	10/3/02	10/3/02	CRT
Surrogate (DCB)	118	%R	10/3/02	10/3/02	CRT
(1) EPA 8151A TCLP Herbicides					
2,4-D	<0.5	mg/l	10/3/02	10/3/02	CRT
2,4,5-TP (Silvex)	<0.5	mg/l	10/3/02	10/3/02	CRT
Surrogate (DCAA)	102	%R	10/3/02	10/3/02	CRT
(5) EPA 8260 TCLP Volatiles					
Benzene	<0.002	mg/l		9/4/02	PV
Carbon tetrachloride	<0.002	mg/l		9/4/02	PV
Chlorobenzene	<0.002	mg/l		9/4/02	PV
Chloroform	<0.002	mg/l		9/4/02	PV
1,4-Dichlorobenzene	<0.002	mg/l		9/4/02	PV
1,2-Dichloroethane	<0.002	mg/l		9/4/02	PV
1,1-Dichloroethene	<0.002	mg/l		9/4/02	PV
2-Butanone (MEK)	<0.002	mg/l		9/4/02	PV
Tetrachloroethene	<0.002	mg/l		9/4/02	PV
Trichloroethene	<0.002	mg/l		9/4/02	PV
Vinyl chloride	<0.002	mg/l		9/4/02	PV
(1) EPA 8270 TCLP Pesticides					
gamma-BHC (Lindane)	<0.01	mg/l	10/3/02	10/3/02	CRT
Chlordane, Total	<0.02	mg/l	10/3/02	10/3/02	CRT

- - REVISED LABORATORY ANALYSIS REPORT - -

Natures Way Environmental *Crittenden, NY*

Sample ID: 52949, Stockpiled Contam. Soil - Comp. **LSL Sample ID:** 0213525-001

ation: CRA-Bern Metals

Sampled: 09/18/02 0:00 **Sampled By:** TK

Sample Matrix: SHW As Recd.

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8270 TCLP Pesticides					
Endrin	<0.01	mg/l	10/3/02	10/3/02	CRT
Heptachlor	<0.005	mg/l	10/3/02	10/3/02	CRT
Heptachlor epoxide	<0.005	mg/l	10/3/02	10/3/02	CRT
Methoxychlor	<0.05	mg/l	10/3/02	10/3/02	CRT
Toxaphene	<0.4	mg/l	10/3/02	10/3/02	CRT
(1) EPA 8270 TCLP Semi-Volatiles					
Cresol, Total	<0.01	mg/l	10/3/02	10/3/02	CRT
2,4-Dinitrotoluene	<0.01	mg/l	10/3/02	10/3/02	CRT
Hexachlorobenzene	<0.01	mg/l	10/3/02	10/3/02	CRT
Hexachlorobutadiene	<0.01	mg/l	10/3/02	10/3/02	CRT
Hexachloroethane	<0.01	mg/l	10/3/02	10/3/02	CRT
Nitrobenzene	<0.01	mg/l	10/3/02	10/3/02	CRT
Pentachlorophenol	<0.02	mg/l	10/3/02	10/3/02	CRT
Pyridine	<0.02	mg/l	10/3/02	10/3/02	CRT
2,4,5-Trichlorophenol	<0.01	mg/l	10/3/02	10/3/02	CRT
2,4,6-Trichlorophenol	<0.01	mg/l	10/3/02	10/3/02	CRT
Surrogate (2-Fluorophenol)	26	%R	10/3/02	10/3/02	CRT
Surrogate (Phenol-d5)	18	%R	10/3/02	10/3/02	CRT
Surrogate (2,4,6-Tribromophenol)	28	%R	10/3/02	10/3/02	CRT
Surrogate (Nitrobenzene-d5)	91	%R	10/3/02	10/3/02	CRT
Surrogate (2-Fluorobiphenyl)	79	%R	10/3/02	10/3/02	CRT
Surrogate (Terphenyl-d14)	82	%R	10/3/02	10/3/02	CRT
(1) EPA 9012 Reactive Cyanide					
Reactive Cyanide	<50	mg/kg		10/3/02	DRB
(1) EPA 9030A Reactive Sulfide					
Reactive Sulfide	<50	mg/kg		10/2/02	SCO
(1) EPA 9045 Water Extractable pH					
pH	6.8	Std. Units		10/1/02	DWK
pH Measurement Temperature	25	Degrees C		10/1/02	DWK
(1) EPA 9095 Paint Filter Test					
Paint Filter Test	Pass			9/30/02	MM
(1) SW846, 7.3 Reactivity Distillation					
Reactivity Distillation				10/1/02	MM

Analysis performed at NYS DOH ELAP Number: *(1) 10248, (2) 10900, (3) 11667, (4) 10760, (5) 11369*

Phone # (315) 445-1105 Fax # (315) 445-1301

3 days 9/2/3

Project Reference:

Name: Russ Savage / Greg Weber

Company: Nature's Way Environmental

Street: 3553 Crittenden Rd.

City/State: Crittenden, New York Zip: 14038

Phone #: (716) 937-6527 Fax #: 937-9360

Email:

Report Through (if different): same

Authorization or PO #:

Contact Person and phone # (in case the lab has questions):

Date Needed: 48-hr RUSH 5-day RUSH 24-hr RUSH 72-hr RUSH Additional charges may apply.

Special Instructions: Please fax report

* 3 DAY T/A

Client Project ID or Name: CRA - Bern Metals

Client Project Site Id:

LSL Project #:

LSL Sample #	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
001	Stockpiled Contam-Soil	9/18/02			X	Soil		2	1	TCLP Benzene, TCLP Lead, Ignitability	

$50

52949 ORIGINAL FORM

Notes and General Identifications:

* add TCLP Pest, Herb, SVOC, VOC, Reactivity, and Pollu ch. PCB's w/ 3day T/A Ann 9/20/02

per Dave B. per client. LJ

Custody Transfer

		Date	Time
Sampled By: TONY [illegible]	Received By:	9/18/02	9:40
Relinquished By:	Received By:	09-23-02 4.6°C	08:59
Relinquished By:	Rec'd for Lab By:	9/18	500
Shipment Method:	Received Intact: Y N	Sample Receipt Temp: 4	

OCT 2 3 REC'D

WASTE MANAGEMENT

WASTE MANAGEMENT
10860 Olean Rd.
Chaffee, New York 14030-9799
(716) 496-5000
(716) 496-7325 Fax

October 21, 2002

Mr. Greg Weber
Nature's Way Environmental
3553 Crittenden Rd.
Crittenden, NY 14038

RE: Approved Profile #CW2208
Bern Metals/Universal Metals

Dear Mr. Weber,

Please be advised that the above referenced application has been approved for disposal at Waste Management's Chaffee Landfill. Enclosed please find a copy of the approved application.

In the event that significant changes in the information provided on the application occur, please notify us immediately. Such changes shall include, but are not limited to, change in process, change in waste composition and change in hauler.

Please contact us 24 hours in advance of any disposal you wish to schedule.

Should you have any questions at all, please contact me directly @ (716) 754-0365.

Sincerely,

James L. Callahan
Inside Sales Representative

Enc.
cc: File

10/14 FAXED TO SIU

WM WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

Service Agreement on File? [X] YES [ ] NO

Profile Number: WMI CW2208

Renewal Date: 6/1/03

[ ] Hazardous [X] Non-Hazardous [ ] TSCA

A. Waste Generator Information

1. Generator Name: Bernmetals/Universal Metals Site Potentially Responsible Parties
2. SIC Code:
3. Facility Street Address: 18 Bender Ave.
4. Phone: (412) 826-3733 CRA, Inc.
5. Facility City: Buffalo
6. State/Province: New York
7. Zip/Postal Code: 14206
8. Generator USEPA/Federal ID #: NA
9. County: Erie
10. State/Province ID #: NA
11. Customer Name: Nature's Way Environmental
12. Customer Phone: (716) 937-6527
13. Customer Contact: R. Sauce/G. Weber
14. Customer Fax: 937-9360
15. Billing Address 3553 Cattenden Rd. Cattenden, New York 14038 [ ] Same as above

B. Waste Stream Information

1. Description
   a. Name of Waste: Soil Contaminated with Petroleum
   b. Process Generating Waste: Leaking UST. Soil to be disposed of was excavated from the area surrounding a former petroleum U.S.T. Tank was discovered during remediation of lead contaminated soils on site.

c. Color	d. Strong odor (describe):	e. Physical state @ 70°F	f. Layers	g. Free liquid range
Brown	Moderate Petroleum Odor	[X] Solid [ ] Liquid [ ] Gas [ ] Sludge [ ] Other	[X] Single Layer [ ] Multi-layer	NA to % No Free Liquid
				h. pH: Range 6.0 to 9.0 %

i. Liquid Flash Point: [ ] <73°F [ ] 73-99°F [ ] 100-139°F [ ] 140-199°F [ ] ≥ 200°F [X] Not applicable

j. Chemical Composition (List all constituents (including halogenated organics, debris, and UHC's) present in any concentration and submit representative analysis):

Constituents	Concentration Range	Constituents	Concentration Range
Soil + Stone	> 99 %		
Petroleum Products	< 1 %		

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. [ ] Oxidizer [ ] Pyrophoric [ ] Explosive [ ] Radioactive [ ] Carcinogen [ ] Infectious [ ] Shock Sensitive [ ] Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA notification? (list in Section B.1.j) [ ] YES [X] NO

m. Does the waste represented by this profile contain dioxins? (list in Section B.1.j) [ ] YES [X] NO

n. Does the waste represented by this profile contain asbestos? [ ] YES [X] NO
   If yes: [ ] friable [ ] non-friable

o. Does the waste represented by this profile contain benzene? [ ] YES [X] NO
   If yes, concentration < 1 ppm ppm
   Is the waste subject to the benzene waste operations NESHAP? [ ] YES [X] NO

p. Is the waste subject to RCRA Subpart CC controls? [ ] YES [X] NO
   If yes, volatile organic concentration ppmw

q. Does the waste contain any Class I or Class II ozone-depleting substances? [ ] YES [X] NO

r. Does the waste contain debris? (list in Section B.1.j) [ ] YES [X] NO

Quantity of Waste

Estimated Annual Volume 350 [X] Tons [ ] Yards [ ] Drums [ ] Other (specify)

Shipping Information

Packaging:
[ ] Bulk Solid; Type/Size: Dump Truck
[ ] Bulk Liquid; Type/Size:
[ ] Drum; Type; Size:
[ ] Other:

Shipping Frequency: Units 350 Tons Per: [ ] Month [ ] Quarter [ ] Year [X] One time [ ] Other

s. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e, and f) [ ] YES [X] NO
   Reportable Quantity (lbs.; kgs.):
   e. Hazard Class/ID #:
   USDOT Shipping Name:

WASTE MANAGEMENT

GENERATOR'S WASTE PROFILE SHEET
CHAFFEE LANDFILL

PLEASE PRINT IN INK OR TYPE

g. Personal Protective Equipment Requirements: NA Tarp Load for Transport

h. Transporter & Transporter Number Zoladz Construction Co. - Inc. 94-499

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. ☐YES ☒NO
   a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U)
   b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (If yes, list in Section B.1.j) ☐YES ☐NO
   c. Does this waste contain debris? (If yes, list size and type in Chemical Composition - B.1.) ☐YES ☐NO
2. Is this a state hazardous waste? ☐YES ☒NO
   Identify ALL state hazardous/non hazardous waste codes
3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? ☐YES ☒NO
   If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up activity. For state mandated clean-up, provide relevant documentation.
4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? ☐YES ☒NO
5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (If yes, list in Chemical Composition - B.1.j) ☐YES ☒NO
   a. If yes, were the PCBs imported into the U.S.? ☐YES ☐NO
6. Do the waste profile sheet and all attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? ☒YES ☐NO
7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? ☒YES ☐NO

☐Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: Title: Owner Date: 10/11/02
Name (Type or Print): Company Name: Date:
☒Check if additional information is attached. Indicate the number of attached pages

D. WMI Management's Decision — FOR WMI USE ONLY

1. Management Method ☒Landfill ☐Non-hazardous Solidification ☐Bioremediation ☐Incineration ☐Hazardous Stabilization ☐Other (Specify)
2. Proposed Ultimate Management Facility: Chaffee Landfill
3. Precautions, Special Handling Procedures, or Limitation on Approval: Material may be used for daily cover pending NYSDEC approval
4. Waste Form
5. Source
6. System Type: ADS

Special Waste Decision: ☒Approved ☐Disapproved
Salesperson's Signature: Date:
NYSDEC Region 9 Approval: Date:
Special Waste Approvals Person Signature: Jan L. Callahan Date: 10/14/02

OK per Chad Stanyszewski
10/21/02

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

AFFEE LANDFILL

TICKET: 95675
DATE: 10/22/2002
TIME: 08:21 - 08:31

STOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
NERATOR: /Non App
JNTY: ERIE / ERIE
JCK: LCA46
AILER:
OF #: CW2208 / CONT. SOIL W/PETR - COVER
NIFEST:
JTE: NA / Non App GRID: 64 / BE1540
).:
CUYDS: 0
MMENT: 18 BENDER AVE.

GROSS: 67960 LBS
TARE: 28340 LBS
NET: 39620 LBS
TONS: 19.81

IMODITY	UNIT	QNTY
?/COVER - CONT		19.81

N OPERATOR: SUSAN

O U T OPERATOR: SUSAN

RIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

FFEE LANDFILL

TICKET: 95680
DATE: 10/22/2002
TIME: 08:54 - 09:07

TOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
ERATOR: /Non App
NTY: ERIE / ERIE
CK: LCA43
ILER: T 3
F #: CW2208 / CONT. SOIL W/PETR - COVER
IFEST:
TE: NA / Non App GRID: 64 / 8E1540
:
JYDS: 0
MENT: 18 BENDER AVE.

GROSS: 89260 LBS
TARE: 36540 LBS
NET: 52720 LBS
TONS: 26.36

MODITY	UNIT	QNTY
'COVER - CONT		26.36

I OPERATOR: SUSAN
O U T OPERATOR: SUSAN
IVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95676
DATE: 10/22/2002
TIME: 08:28 - 08:39

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA48
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 66560 LBS
TARE: 28520 LBS
NET: 38040 LBS
TONS: 19.02

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		19.02

IN OPERATOR: SUSAN
O U T OPERATOR: SUSAN
DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

HAFFEE LANDFILL

TICKET: 95686
DATE: 10/22/2002
TIME: 09:09 - 09:28

JSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
ENERATOR: /Non App
OUNTY: ERIE / ERIE
RUCK: ZOL68
AILER: T 1
OF #: CW2208 / CONT. SOIL W/PETR - COVER
INIFEST:
UTE: NA / Non App GRID: 64 / BE1540
O.:
CUYDS: 0
MMENT: 18 BENDER AVE.

GROSS: 78520 LBS
TARE: 37080 LBS
NET: 41440 LBS
TONS: 20.72

IMODITY	UNIT	QNTY
2/COVER - CONT		20.72

N OPERATOR: SUSAN O U T OPERATOR: SUSAN

RIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95685
DATE: 10/22/2002
TIME: 09:07 - 09:25

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA50
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / BE1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 72680 LBS
TARE: 27960 LBS
NET: 44720 LBS
TONS: 22.36

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		22.36

IN OPERATOR: SUSAN O U T OPERATOR: SUSAN

DRIVER: Neil Moore

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

HAFFEE LANDFILL

TICKET: 95690
DATE: 10/22/2002
TIME: 09:14 - 09:32

JSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
ENERATOR: /Non App
OUNTY: ERIE / ERIE
RUCK: LCA36
RAILER:
ROF #: CW2208 / CONT. SOIL W/PETR - COVER
NIFEST:
UTE: NA / Non App GRID: 64 / 8E1540
O.:
CUYDS: 0
MMENT: 18 BENDER AVE.

GROSS: 66500 LBS
TARE: 30860 LBS
NET: 35640 LBS
TONS: 17.82

MMODITY	UNIT	QNTY
2/COVER - CONT		17.82

N OPERATOR: SUSAN

O U T OPERATOR: SUSAN

RIVER: L-36

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95687
DATE: 10/22/2002
TIME: 09:13 - 09:29

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA45
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 74940 LBS
TARE: 28740 LBS
NET: 46200 LBS
TONS: 23.1

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		23.1

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

FEE LANDFILL

TICKET: 95695
DATE: 10/22/2002
TIME: 09:27 - 09:43

OMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
RATOR: /Non App
TY: ERIE / ERIE
K: LCA16
LER:
#: CW2208 / CONT. SOIL W/PETR - COVER
FEST:
E: NA / Non App GRID: 64 / 8E1540
:
YDS: 0
ENT: 18 BENDER AVE.

GROSS: 67140 LBS
TARE: 28700 LBS
NET: 38440 LBS
TONS: 19.22

DITY	UNIT	QNTY
OVER - CONT		19.22

OPERATOR: SUSAN

O U T OPERATOR: SUSAN

VER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95694
DATE: 10/22/2002
TIME: 09:26 - 09:42

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA32
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 65000 LBS Manual
TARE: 29440 LBS
NET: 35560 LBS
TONS: 17.78

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		17.78

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

FEE LANDFILL

TICKET: 95710
DATE: 10/22/2002
TIME: 10:07 - 10:18

OMER: 174-986 /BERN METALS/UNIV. METALS (CW2200)
RATOR: /Non App
ITY: ERIE / ERIE
K: LCA46
LER:
: CW2200 / CONT. SOIL W/PETR - COVER
FEST:
E: NA / Non App GRID: 64 / 8E1540
:
YDS: 0
ENT: 18 BENDER AVE.

GROSS: 66380 LBS
TARE: 28200 LBS
NET: 38180 LBS
TONS: 19.09

ODITY	UNIT	QNTY
COVER - CONT		19.09

OPERATOR: SUSAN

O U T OPERATOR: SUSAN

IVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95697
DATE: 10/22/2002
TIME: 09:28 - 09:46

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2200)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA30
TRAILER:
PROF #: CW2200 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 65380 LBS
TARE: 27480 LBS
NET: 37900 LBS
TONS: 18.95

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		18.95

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

IAFFEE LANDFILL

TICKET: 95718
DATE: 10/22/2002
TIME: 10:40 - 10:52

ISTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
:NERATOR: /Non App
)UNTY: ERIE / ERIE
:UCK: LCA43
:AILER: T 3
:OF #: CW2208 / CONT. SOIL W/PETR - COVER
INIFEST:
:UTE: NA / Non App GRID: 64 / 8E1540
O.:
CUYDS: 0
MMENT: 18 BENDER AVE.

GROSS: 101900 LBS
TARE: 36480 LBS
NET: 65420 LBS
TONS: 32.71

MMODITY	UNIT	QNTY
2/COVER - CONT		32.71

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

)RIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95711
DATE: 10/22/2002
TIME: 10:09 - 10:21

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA48
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 67440 LBS
TARE: 28440 LBS
NET: 39000 LBS
TONS: 19.5

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		19.5

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

AFFEE LANDFILL

TICKET: 95729
DATE: 10/22/2002
TIME: 11:20 - 11:37

STOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
NERATOR: /Non App
JNTY: ERIE / ERIE
JCK: LCA30
AILER:
OF #: CW2208 / CONT. SOIL W/PETR - COVER
NIFEST:
JTE: NA / Non App GRID: 64 / BE1540
J.:
CUYDS: 0
MENT: 18 BENDER AVE.

GROSS: 60120 LBS
TARE: 27400 LBS
NET: 32720 LBS
TONS: 16.36

IMODITY	UNIT	QNTY
:/COVER - CONT		16.36

N OPERATOR: SUSAN O U T OPERATOR: SUSAN

RIVER: Jack Meyer

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95723
DATE: 10/22/2002
TIME: 11:05 - 11:21

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: ZOL68
TRAILER: T 1
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / BE1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 87060 LBS
TARE: 37060 LBS
NET: 50000 LBS
TONS: 25

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		25

IN OPERATOR: SUSAN O U T OPERATOR: SUSAN

DRIVER: Benjamin

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

IFFEE LANDFILL

TICKET: 95737
DATE: 10/22/2002
TIME: 11:55 - 12:04

TOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
ERATOR: /Non App
NTY: ERIE / ERIE
CK: LCA48
ILER:
F #: CW2208 / CONT. SOIL W/PETR - COVER
IFEST:
TE: NA / Non App GRID: 64 / 8E1540
.:
JYDS: 0
MENT: 18 BENDER AVE.

GROSS: 65180 LBS
TARE: 28340 LBS
NET: 36840 LBS
TONS: 18.42

IODITY	UNIT	QNTY
'COVER - CONT		18.42

OPERATOR: SUSAN

O U T OPERATOR: SUSAN

IVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95736
DATE: 10/22/2002
TIME: 11:48 - 12:03

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA46
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 67460 LBS
TARE: 28020 LBS
NET: 39440 LBS
TONS: 19.72

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		19.72

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER:

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

)FFEE LANDFILL

TICKET: 95758
DATE: 10/22/2002
TIME: 13:02 - 13:20

STOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
IERATOR: /Non App
INTY: ERIE / ERIE
ICK: ZOL68
IILER:
IF #: CW2208 / CONT. SOIL W/PETR - COVER
IIFEST:
ITE: NA / Non App GRID: 64 / 8E1540
.:
UYDS: 0
MENT: 18 BENDER

GROSS: 80220 LBS
TARE: 37140 LBS
NET: 43080 LBS
TONS: 21.54

MODITY	UNIT	QNTY
/COVER - CONT		21.54

N OPERATOR: JENNY JONES O U T OPERATOR: SUSAN

RIVER: Jeffenjonkeg

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95747
DATE: 10/22/2002
TIME: 12:26 - 12:40

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA43
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER

GROSS: 103620 LBS
TARE: 36340 LBS
NET: 67280 LBS
TONS: 33.64

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		33.64

IN OPERATOR: JENNY JONES O U T OPERATOR: JENNY

DRIVER: mb

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

:HAFFEE LANDFILL

TICKET: 95790
DATE: 10/22/2002
TIME: 14:49 - 15:01

USTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
ENERATOR: /Non App
OUNTY: ERIE / ERIE
RUCK: LCA25
RAILER:
ROF #: CW2208 / CONT. SOIL W/PETR - COVER
ANIFEST:
OUTE: NA / Non App GRID: 64 / 8E1540
.O.:
CUYDS: 0
OMMENT: 18 BENDER AVE.

GROSS: 63400 LBS
TARE: 27180 LBS
NET: 36220 LBS
TONS: 18.11

OMMODITY	UNIT	QNTY
)2/COVER - CONT		18.11

IN OPERATOR: SUSAN
OUT OPERATOR: SUSAN
DRIVER: #25 Allen

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95789
DATE: 10/22/2002
TIME: 14:41 - 14:56

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA43
TRAILER: T 3
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 107760 LBS
TARE: 36220 LBS
NET: 71540 LBS
TONS: 35.77

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		35.77

IN OPERATOR: SUSAN
OUT OPERATOR: SUSAN
DRIVER: Rb

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

AFFEE LANDFILL

TICKET: 95812
DATE: 10/22/2002
TIME: 15:58 - 15:58

STOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)

UNTY: ERIE / ERIE
UCK: VAR/PW
AILER:

NIFEST:
UTE: NA / Non App GRID: 64 / 8E1540
O.:
CUYDS: 0
MMENT: 18 BENDER AVE.

GROSS: 0 LBS
TARE: 0 LBS
NET: 0 LBS
TONS: 0

MMODITY	UNIT	QNTY
J/HAULING	U	480.65

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER: _____

WASTE MANAGEMENT
CHAFFEE LANDFILL
10860 OLEAN ROAD
CHAFFEE, NEW YORK 14030
(716) 496-5000

CHAFFEE LANDFILL

TICKET: 95792
DATE: 10/22/2002
TIME: 14:46 - 15:03

CUSTOMER: 174-986 /BERN METALS/UNIV. METALS (CW2208)
GENERATOR: /Non App
COUNTY: ERIE / ERIE
TRUCK: LCA17
TRAILER:
PROF #: CW2208 / CONT. SOIL W/PETR - COVER
MANIFEST:
ROUTE: NA / Non App GRID: 64 / 8E1540
P.O.:
CUYDS: 0
COMMENT: 18 BENDER AVE.

GROSS: 59220 LBS
TARE: 27920 LBS
NET: 31300 LBS
TONS: 15.65

COMMODITY	UNIT	QNTY
AD2/COVER - CONT		15.65

IN OPERATOR: SUSAN

O U T OPERATOR: SUSAN

DRIVER: _____

CRITTENDEN
(716) 937-6527
SENECA FALLS
(315) 568-1664

Attachment 2
Laboratory Analytical Reports

3553 CRITTENDEN ROAD • CRITTENDEN, NEW YORK 14038 FAX

Life Science Laboratories

LSL

ELAP# 11369

5611 Water St.
Middlesex, NY 14507

Phone: 800-843-5227
Fax: 585-554-4114

LABORATORY REPORT - METHOD 8021

Cust NATURE'S WAY ENVIRO
Address: 3553 CRITTENDEN RD.
CRITTENDEN, NY 14038
Attn: R. SAVAGE/G. WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number
Project Cust: CRA/BERN METALS SITE
Project Site:

Lab Director: Nicholas Tedesche

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print
Detection Limits* = Soil=ug/kg ppb
*See Individual Limit Water=ug/L ppb

Results shown are: Volatile Organic Analytes
Extraction Method: EPA 5030 Purge & Trap
Analysis Method: EPA 8260 GC/MS

Sample ID (LAB)	52943	
Sample ID#1(CUST)	EXCAVATION NORTH SIDE	
Sample ID#2(CUST)		
trix	SOIL	
ampled By	TONY KAMINSKI	
Date Sampled	09/18/02	
Date Received	09/18/02	04:30
Date Analyzed	09/19/02	
Date Reported	09/19/02	
	Results	Det Limit*
Methyl-tert-butyl ether	<DL(U)	4.0
Benzene	<DL(U)	4.0
Toluene	<DL(U)	4.0
Ethylbenzene	<DL(U)	4.0
m&p-Xylene	<DL(U)	8.0
o-Xylene	<DL(U)	4.0
Isopropylbenzene	<DL(U)	4.0
n-Propylbenzene	<DL(U)	4.0
1,3,5-Trimethylbenzene	<DL(U)	4.0
tert-Butylbenzene	<DL(U)	4.0
1,2,4-Trimethylbenzene	<DL(U)	4.0
sec-Butylbenzene	<DL(U)	4.0
1,3-Dichlorobenzene	<DL(U)	4.0
4-Isopropyltoluene	<DL(U)	4.0
n-Butylbenzene	<DL(U)	4.0
Naphthalene	<DL(U)	10.0

< DL(U)= analyzed but not detected
L= estimated value
B=analyte found in blank
E=exceed calibration range
J= < pql but > MDL

DL = Detection Limit

Life Science Laboratories

LSL

ELAP# 11369

5611 Water St.
Middlesex, NY 14507

Phone: 800-843-5227
Fax: 585-554-4114

LABORATORY REPORT - METHOD 8021

Cust NATURE'S WAY ENVIRO
Address: 3553 CRITTENDEN RD.
CRITTENDEN, NY 14038
Attn: R. SAVAGE/G. WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number
Project Cust: CRA/BERN METALS SITE
Project Site:

Lab Director: Nicholas Tedesche

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print
Detection Limits* = Soil=ug/kg ppb
*See Individual Limit Water=ug/L ppb

Results shown are: **Volatile Organic Analytes**
Extraction Method: **EPA 5030 Purge & Trap**
Analysis Method: **EPA 8260 GC/MS**

Sample ID (LAB)	**52944**	
Sample ID#1(CUST)	**EXCAVATION SOUTH SIDE**	
Sample ID#2(CUST)		
Matrix	**SOIL**	
Sampled By	**TONY KAMINSKI**	
Date Sampled	**09/18/02**	
Date Received	**09/18/02**	**04:30**
Date Analyzed	**09/19/02**	
Date Reported	**09/19/02**	

	Results	Det Limit*
Methyl-tert-butyl ether	**<DL(U)**	4.0
Benzene	**<DL(U)**	4.0
Toluene	**<DL(U)**	4.0
Ethylbenzene	**<DL(U)**	4.0
m&p-Xylene	**<DL(U)**	8.0
o-Xylene	**<DL(U)**	4.0
Isopropylbenzene	**<DL(U)**	4.0
n-Propylbenzene	**<DL(U)**	4.0
1,3,5-Trimethylbenzene	**<DL(U)**	4.0
tert-Butylbenzene	**<DL(U)**	4.0
1,2,4-Trimethylbenzene	**<DL(U)**	4.0
sec-Butylbenzene	**<DL(U)**	4.0
1,3-Dichlorobenzene	**<DL(U)**	4.0
4-Isopropyltoluene	**<DL(U)**	4.0
n-Butylbenzene	**<DL(U)**	4.0
Naphthalene	**<DL(U)**	10.0

< DL(U)= analyzed but not detected
L= estimated value
B=analyte found in blank
E=exceed calibration range
J= < pql but > MDL

DL = Detection Limit

Life Science Laboratories

LSL

ELAP# 11369

5611 Water St.
Middlesex, NY 14507

Phone: 800-843-5227
Fax: 585-554-4114

LABORATORY REPORT - METHOD 8021

Cust NATURE'S WAY ENVIRO
Address: 3553 CRITTENDEN RD.
CRITTENDEN, NY 14038
Attn: R. SAVAGE/G. WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number
Project Cust: CRA/BERN METALS SITE
Project Site:

Lab Director: Nicholas Tedesche

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print
Detection Limits* = Soil=ug/kg ppb
*See Individual Limit Water=ug/L ppb

Results shown are: **Volatile Organic Analytes**
Extraction Method: **EPA 5030 Purge & Trap**
Analysis Method: **EPA 8260 GC/MS**

Sample ID (LAB)	**52945**	
Sample ID#1(CUST)	**EXCAVATION EAST SIDE**	
Sample ID#2(CUST)		
trix	**SOIL**	
npled By	**TONY KAMINSKI**	
Date Sampled	**09/18/02**	
Date Received	**09/18/02**	**04:30**
Date Analyzed	**09/19/02**	
Date Reported	**09/19/02**	
	Results	**Det Limit***
Methyl-tert-butyl ether	**<DL(U)**	4.0
Benzene	**<DL(U)**	4.0
Toluene	**<DL(U)**	4.0
Ethylbenzene	**<DL(U)**	4.0
m&p-Xylene	**<DL(U)**	8.0
o-Xylene	**<DL(U)**	4.0
Isopropylbenzene	**<DL(U)**	4.0
n-Propylbenzene	**<DL(U)**	4.0
1,3,5-Trimethylbenzene	**<DL(U)**	4.0
tert-Butylbenzene	**<DL(U)**	4.0
1,2,4-Trimethylbenzene	**<DL(U)**	4.0
sec-Butylbenzene	**<DL(U)**	4.0
1,3-Dichlorobenzene	**<DL(U)**	4.0
4-Isopropyltoluene	**<DL(U)**	4.0
n-Butylbenzene	**<DL(U)**	4.0
Naphthalene	**<DL(U)**	10.0

< DL(U)= analyzed but not detected
L= estimated value
B=analyte found in blank
E=exceed calibration range
J= < pql but > MDL

* DL = Detection Limit

Life Science Laboratories

LSL

ELAP# 11369

5611 Water St.
Middlesex, NY 14507

Phone: 800-843-5227
Fax: 585-554-4114

LABORATORY REPORT - METHOD 8021

Cust NATURE'S WAY ENVIRO
Address: 3553 CRITTENDEN RD.
CRITTENDEN, NY 14038
Attn: R. SAVAGE/G. WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number
Project Cust: CRA/BERN METALS SITE
Project Site:

Lab Director: Nicholas Tedesche

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print
Detection Limits* = Soil=ug/kg ppb
*See Individual Limit Water=ug/L ppb

Results shown are: Volatile Organic Analytes
Extraction Method: EPA 5030 Purge & Trap
Analysis Method: EPA 8260 GC/MS

Sample ID (LAB)	52946	
Sample ID#1(CUST)	EXCAVATION WEST SIDE	
Sample ID#2(CUST)		
Matrix	SOIL	
Sampled By	TONY KAMINSKI	
Date Sampled	09/18/02	
Date Received	09/18/02	04:30
Date Analyzed	09/19/02	
Date Reported	09/19/02	
	Results	Det Limit*
Methyl-tert-butyl ether	<DL(U)	4.0
Benzene	<DL(U)	4.0
Toluene	<DL(U)	4.0
Ethylbenzene	<DL(U)	4.0
m&p-Xylene	<DL(U)	8.0
o-Xylene	<DL(U)	4.0
Isopropylbenzene	<DL(U)	4.0
n-Propylbenzene	<DL(U)	4.0
1,3,5-Trimethylbenzene	<DL(U)	4.0
tert-Butylbenzene	<DL(U)	4.0
1,2,4-Trimethylbenzene	<DL(U)	4.0
sec-Butylbenzene	<DL(U)	4.0
1,3-Dichlorobenzene	<DL(U)	4.0
4-Isopropyltoluene	<DL(U)	4.0
n-Butylbenzene	<DL(U)	4.0
Naphthalene	<DL(U)	10.0

< DL(U)= analyzed but not detected
L= estimated value
B=analyte found in blank
E=exceed calibration range
J= < pql but > MDL

DL = Detection Limit

Life Science Laboratories

LSL

ELAP# 11369

5611 Water St.
Middlesex, NY 14507

Phone: 800-843-5227
Fax: 585-554-4114

LABORATORY REPORT - METHOD 8021

Cust NATURE'S WAY ENVIRO
Address: 3553 CRITTENDEN RD.
CRITTENDEN, NY 14038
Attn: R. SAVAGE/G. WEBER

Phone 716-937-6527
FAX 716-937-9360

PO Number:
Project Number
Project Cust: CRA/BERN METALS SITE
Project Site:

Lab Director: Nicholas Tedesche

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print
Detection Limits* = Soil=ug/kg ppb
*See Individual Limit Water=ug/L ppb

Results shown are: Volatile Organic Analytes
Extraction Method: EPA 5030 Purge & Trap
Analysis Method: EPA 8260 GC/MS

Sample ID (LAB)	52947	
Sample ID#1(CUST)	EXCAVATION BOTTOM	
Sample ID#2(CUST)		
trix	SOIL	
ampled By	TONY KAMINSKI	
Date Sampled	09/18/02	
Date Received	09/18/02	04:30
Date Analyzed	09/19/02	
Date Reported	09/19/02	
	Results	Det Limit*
Methyl-tert-butyl ether	<DL(U)	4.0
Benzene	<DL(U)	4.0
Toluene	<DL(U)	4.0
Ethylbenzene	<DL(U)	4.0
m&p-Xylene	<DL(U)	8.0
o-Xylene	<DL(U)	4.0
Isopropylbenzene	<DL(U)	4.0
n-Propylbenzene	<DL(U)	4.0
1,3,5-Trimethylbenzene	<DL(U)	4.0
tert-Butylbenzene	<DL(U)	4.0
1,2,4-Trimethylbenzene	<DL(U)	4.0
sec-Butylbenzene	<DL(U)	4.0
1,3-Dichlorobenzene	<DL(U)	4.0
4-Isopropyltoluene	<DL(U)	4.0
n-Butylbenzene	<DL(U)	4.0
Naphthalene	<DL(U)	10.0

< DL(U)= analyzed but not detected
L= estimated value
B=analyte found in blank
E=exceed calibration range
J= < pql but > MDL

* DL = Detection Limit

6864 Butternut Dr., East Syracuse, New York 13057
Phone # (315) 446-1105 Fax # (315) 446-1301

Chain of Custody Record

@4 hrs 9/4

TOTAL P.07

Report Address:
Name: Nature's Way Environmental
Company: Russ Savage / G. Weber
Street: 3553 Crittenden Rd.
City/State: Crittenden, NY Zip: 14038
Phone #: (716) 937-6527 Fax #: 937-9360
Email:

Invoice Address (if different): Same

Authorization or PO #:

Turnaround Time Request: 14-Day STD
Date Needed: 48-Hr RUSH* 5-Day RUSH*
24-Hr RUSH* 72-Hr RUSH*
*additional charges may apply.

Special Instructions: Please fax results.
Rush - need results 9/19/02 5:00

Contact Person and phone # (in case the lab has questions): Russ Savage/Greg Weber

Client Project ID or Name: CRA/Bern Metals Site

Client Project Site ID:

LSL Project #:

LSL Sample #	Client's Sample Identifications	Sample Date	Sample Time	Type grab	Type comp.	Matrix	Preserv. Added	Containers #	Containers size/type	Requested Analyses	LSL Preserv. Check
	Excavation North Side	9/18/02			X	Soil		1		8021 STARS	
	Excavation South Side	9/18/02			X	↓		1		↓	
	Excavation East Side	9/18/02			X			1			
	Excavation West Side	9/18/02			X			1			
	Excavation Bottom	9/18/02			X	✓		1			

52943 52944 52945 52946 52947 MANILLA COPY

Notes and Unusual Identifications:

Custody Transfers

		Date	Time
Sampled By: TONY KAMINSKI Tony Kaminski	Received By:	9/18/02	1410
Relinquished By:	Received By:		
Relinquished By:	Rec'd for Lab By:	9/18	4:30

Shipment Method:
Received Intact: (Y) N
Sample Receipt Temp. 4 °C

Appendix I

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Appendix I

Appendix I

Analytical Laboratory Reports for Imported Backfill Soil Samples (STL)

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

AVERY® C
PV119ED

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A02-8480

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.
Task: Bern Metal/Universal Metal Site

Douglas Ruszczyk
1400 Sweet Home Road
Suite 1
Amherst, NY 14228

STL Buffalo

Candace L. Fox
Project Manager

Susan L. Mazur
Laboratory Director

08/29/2002

This report contains 1039 pages which are individually numbered.

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2848001	SPL-001	08/22/2002	10:00	08/23/2002	14:40
A2848002	SPL-002	08/22/2002	09:40	08/23/2002	14:40
A2848003	SPL-003	08/22/2002	11:20	08/23/2002	14:40
A2848004	SPL-004	08/22/2002	09:50	08/23/2002	14:40

METHODS SUMMARY

Job#: A02-8480

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8480

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8480
Sample Cooler(s) were received at the following temperature(s); 14 °C
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A2I0000893-1 exhibited the %RSD of Methylene Chloride and Acetone as greater than 15%. Linear regression was used to calculate the concentration of these analytes when detected.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8151, several analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Dinoseb exhibited positive bias and a % difference result greater than 15% in the continuing calibration. No corrective action was taken, all field samples were non-detect for the analytes mentioned.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

SEVERN TRENT SERVICES

000005

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Mazur
Laboratory Director

8/30/2002
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
SPL-001	A2848001	SW8463	SW8463	-	SW8463	SW8463	-
SPL-002	A2848002	SW8463	SW8463	-	SW8463	SW8463	-
SPL-003	A2848003	SW8463	SW8463	-	SW8463	SW8463	-
SPL-004	A2848004	SW8463	SW8463	-	SW8463	SW8463	-

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-001	SOIL	08/22/2002	08/23/2002	-	08/23/2002
SPL-002	SOIL	08/22/2002	08/23/2002	-	08/23/2002
SPL-003	SOIL	08/22/2002	08/23/2002	-	08/23/2002
SPL-004	SOIL	08/22/2002	08/23/2002	-	08/23/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-001	SOIL	08/22/2002	08/23/2002	08/26/2002	08/26/2002
SPL-002	SOIL	08/22/2002	08/23/2002	08/26/2002	08/26/2002
SPL-003	SOIL	08/22/2002	08/23/2002	08/26/2002	08/26/2002
SPL-004	SOIL	08/22/2002	08/23/2002	08/26/2002	08/26/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-001	SOIL	08/22/2002	08/23/2002	08/26/2002	08/27-28/2002
SPL-002	SOIL	08/22/2002	08/23/2002	08/26/2002	08/27-28/2002
SPL-003	SOIL	08/22/2002	08/23/2002	08/26/2002	08/27-28/2002
SPL-004	SOIL	08/22/2002	08/23/2002	08/26/2002	08/27-28/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
SPL-001	SOIL	HSL ME	08/23/2002	08/26-27/2002	08/26-28/2002
SPL-002	SOIL	HSL ME	08/23/2002	08/26-27/2002	08/26-28/2002
SPL-003	SOIL	HSL ME	08/23/2002	08/26-27/2002	08/26-27/2002
SPL-004	SOIL	HSL ME	08/23/2002	08/26-27/2002	08/26-28/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
SPL-001	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED
SPL-002	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED
SPL-003	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED
SPL-004	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED

Dilution Log w/Code Information
For Job A02-8480

000012

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
SPL-001	A2848001	Calcium - Total	10.00	008
SPL-002	A2848002	Calcium - Total	10.00	008
SPL-004	A2848004	Calcium - Total	10.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance

E Indicates a value estimated or not reported due to the presence of interferences

H Indicates analytical holding time exceedance The value obtained should be considered an estimate

* Indicates analysis is not within the quality control limits

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000014

Client No.

SPL-001

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 5.04 (g/mL) G Lab File ID: Q5941.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: not dec. 6.3 Heated Purge: Y Date Analyzed: 08/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	26	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	26	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	1	J
108-10-1	4-Methyl-2-pentanone	26	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	16	U

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000015

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 5.09 (g/mL) G Lab File ID: Q5942.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: not dec. 4.4 Heated Purge: Y Date Analyzed: 08/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	26	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	26	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	1	J
108-10-1	4-Methyl-2-pentanone	26	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000016

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 5.04 (g/mL) G Lab File ID: Q5943.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: not dec. 11.1 Heated Purge: Y Date Analyzed: 08/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	28	U
71-43-2	Benzene	6	U
75-27-4	Bromodichloromethane	6	U
75-25-2	Bromoform	6	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	28	U
75-15-0	Carbon Disulfide	6	U
56-23-5	Carbon Tetrachloride	6	U
108-90-7	Chlorobenzene	6	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	6	U
74-87-3	Chloromethane	11	U
124-48-1	Dibromochloromethane	6	U
75-34-3	1,1-Dichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
75-35-4	1,1-Dichloroethene	6	U
540-59-0	1,2-Dichloroethene (Total)	11	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
100-41-4	Ethylbenzene	6	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	6	U
108-10-1	4-Methyl-2-pentanone	28	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
127-18-4	Tetrachloroethene	6	U
108-88-3	Toluene	6	U
71-55-6	1,1,1-Trichloroethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
79-01-6	Trichloroethene	6	U
108-05-4	Vinyl acetate	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Total Xylenes	17	U

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000017

Client No.

SPL-004

La' 'ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 5.10 (g/mL) G Lab File ID: Q5944.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: not dec. 5.8 Heated Purge: Y Date Analyzed: 08/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	26	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	26	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	2	J
108-10-1	4-Methyl-2-pentanone	26	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	16	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000018

Client No.

SPL-001

La' ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z52764.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 6.3 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
65-85-0	Benzoic acid	1700	U
100-51-6	Benzyl alcohol	340	U
111-91-1	Bis(2-chloroethoxy) methane	340	U
111-44-4	Bis(2-chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	Bis(2-ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U
105-67-9	2,4-Dimethylphenol	340	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000019

Client No.

SPL-001

La' me: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z52764.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 6.3 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
117-84-0	Di-n-octyl phthalate	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-nitrosodiphenylamine	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	830	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000020

Client No.

SPL-001

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.78 (g/mL) G Lab File ID: Z52764.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 6.3 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	340	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000021

Client No.

SPL-002

La ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 30.06 (g/mL) G Lab File ID: Z52765.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 4.4 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	340	U
208-96-8	Acenaphthylene	340	U
120-12-7	Anthracene	340	U
56-55-3	Benzo(a)anthracene	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
191-24-2	Benzo(ghi)perylene	340	U
50-32-8	Benzo(a)pyrene	340	U
65-85-0	Benzoic acid	1700	U
100-51-6	Benzyl alcohol	340	U
111-91-1	Bis(2-chloroethoxy) methane	340	U
111-44-4	Bis(2-chloroethyl) ether	340	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	340	U
117-81-7	Bis(2-ethylhexyl) phthalate	340	U
101-55-3	4-Bromophenyl phenyl ether	340	U
85-68-7	Butyl benzyl phthalate	340	U
106-47-8	4-Chloroaniline	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-58-7	2-Chloronaphthalene	340	U
95-57-8	2-Chlorophenol	340	U
7005-72-3	4-Chlorophenyl phenyl ether	340	U
218-01-9	Chrysene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
132-64-9	Dibenzofuran	340	U
84-74-2	Di-n-butyl phthalate	340	U
95-50-1	1,2-Dichlorobenzene	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
91-94-1	3,3'-Dichlorobenzidine	690	U
120-83-2	2,4-Dichlorophenol	340	U
84-66-2	Diethyl phthalate	340	U
105-67-9	2,4-Dimethylphenol	340	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000022

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 30.06 (g/mL) G Lab File ID: Z52765.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 4.4 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	340	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
117-84-0	Di-n-octyl phthalate	340	U
206-44-0	Fluoranthene	340	U
86-73-7	Fluorene	340	U
118-74-1	Hexachlorobenzene	340	U
87-68-3	Hexachlorobutadiene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
67-72-1	Hexachloroethane	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
78-59-1	Isophorone	340	U
91-57-6	2-Methylnaphthalene	340	U
95-48-7	2-Methylphenol	340	U
106-44-5	4-Methylphenol	340	U
91-20-3	Naphthalene	340	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	340	U
88-75-5	2-Nitrophenol	340	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-nitrosodiphenylamine	340	U
621-64-7	N-Nitroso-Di-n-propylamine	340	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	340	U
108-95-2	Phenol	340	U
129-00-0	Pyrene	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
95-95-4	2,4,5-Trichlorophenol	830	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000023

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 30.06 (g/mL) G Lab File ID: Z52765.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 4.4 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	340	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000024

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.95 (g/mL) G Lab File ID: Z52766.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 11.1 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	360	U
208-96-8	Acenaphthylene	360	U
120-12-7	Anthracene	360	U
56-55-3	Benzo(a)anthracene	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
191-24-2	Benzo(ghi)perylene	360	U
50-32-8	Benzo(a)pyrene	360	U
65-85-0	Benzoic acid	1700	U
100-51-6	Benzyl alcohol	360	U
111-91-1	Bis(2-chloroethoxy) methane	360	U
111-44-4	Bis(2-chloroethyl) ether	360	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	360	U
117-81-7	Bis(2-ethylhexyl) phthalate	360	U
101-55-3	4-Bromophenyl phenyl ether	360	U
85-68-7	Butyl benzyl phthalate	360	U
106-47-8	4-Chloroaniline	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-58-7	2-Chloronaphthalene	360	U
95-57-8	2-Chlorophenol	360	U
7005-72-3	4-Chlorophenyl phenyl ether	360	U
218-01-9	Chrysene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
132-64-9	Dibenzofuran	360	U
84-74-2	Di-n-butyl phthalate	360	U
95-50-1	1,2-Dichlorobenzene	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
120-83-2	2,4-Dichlorophenol	360	U
84-66-2	Diethyl phthalate	360	U
105-67-9	2,4-Dimethylphenol	360	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000025

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.95 (g/mL) G Lab File ID: Z52766.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 11.1 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	360	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
117-84-0	Di-n-octyl phthalate	360	U
206-44-0	Fluoranthene	360	U
86-73-7	Fluorene	360	U
118-74-1	Hexachlorobenzene	360	U
87-68-3	Hexachlorobutadiene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
67-72-1	Hexachloroethane	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
78-59-1	Isophorone	360	U
91-57-6	2-Methylnaphthalene	360	U
95-48-7	2-Methylphenol	360	U
106-44-5	4-Methylphenol	360	U
91-20-3	Naphthalene	360	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	360	U
88-75-5	2-Nitrophenol	360	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-nitrosodiphenylamine	360	U
621-64-7	N-Nitroso-Di-n-propylamine	360	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	360	U
108-95-2	Phenol	360	U
129-00-0	Pyrene	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
95-95-4	2,4,5-Trichlorophenol	870	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000026
Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.95 (g/mL) G Lab File ID: Z52766.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 11.1 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	360	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000027

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.18 (g/mL) G Lab File ID: Z52767.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	350	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	350	U
56-55-3	Benzo(a)anthracene	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
191-24-2	Benzo(ghi)perylene	350	U
50-32-8	Benzo(a)pyrene	350	U
65-85-0	Benzoic acid	1700	U
100-51-6	Benzyl alcohol	350	U
111-91-1	Bis(2-chloroethoxy) methane	350	U
111-44-4	Bis(2-chloroethyl) ether	350	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	U
117-81-7	Bis(2-ethylhexyl) phthalate	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
85-68-7	Butyl benzyl phthalate	350	U
106-47-8	4-Chloroaniline	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-58-7	2-Chloronaphthalene	350	U
95-57-8	2-Chlorophenol	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
218-01-9	Chrysene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
84-74-2	Di-n-butyl phthalate	350	U
95-50-1	1,2-Dichlorobenzene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
120-83-2	2,4-Dichlorophenol	350	U
84-66-2	Diethyl phthalate	350	U
105-67-9	2,4-Dimethylphenol	350	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.18 (g/mL) G Lab File ID: Z52767.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	350	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
117-84-0	Di-n-octyl phthalate	350	U
206-44-0	Fluoranthene	350	U
86-73-7	Fluorene	350	U
118-74-1	Hexachlorobenzene	350	U
87-68-3	Hexachlorobutadiene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
67-72-1	Hexachloroethane	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
78-59-1	Isophorone	350	U
91-57-6	2-Methylnaphthalene	350	U
95-48-7	2-Methylphenol	350	U
106-44-5	4-Methylphenol	350	U
91-20-3	Naphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	350	U
88-75-5	2-Nitrophenol	350	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-nitrosodiphenylamine	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
108-95-2	Phenol	350	U
129-00-0	Pyrene	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
95-95-4	2,4,5-Trichlorophenol	840	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000029

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.18 (g/mL) G Lab File ID: Z52767.RR

Level: (low/med) LOW Date Samp/Recv: 08/22/2002 08/23/2002

% Moisture: 5.8 decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	350	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000030

Client No.

SPL-001

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.86 (g/mL) G Lab File ID: RA19593.TX0

% Moisture: 6.3 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
19-86-8	delta-BHC	1.7	U
-74-9	Chlordane	17	U
72-54-8	4,4'-DDD	1.7	U
72-55-9	4,4'-DDE	1.7	U
50-29-3	4,4'-DDT	1.7	U
60-57-1	Dieldrin	1.7	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	1.7	U
1031-07-8	Endosulfan Sulfate	1.7	U
72-20-8	Endrin	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
72-43-5	Methoxychlor	1.7	U
8001-35-2	Toxaphene	34	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000031

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 30.25 (g/mL) G Lab File ID: RA19594.TX0

% Moisture: 4.4 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
319-86-8	delta-BHC	1.7	U
-74-9	Chlordane	17	U
72-54-8	4,4'-DDD	1.7	U
72-55-9	4,4'-DDE	1.7	U
50-29-3	4,4'-DDT	1.7	U
60-57-1	Dieldrin	1.7	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	1.7	U
1031-07-8	Endosulfan Sulfate	1.7	U
72-20-8	Endrin	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
72-43-5	Methoxychlor	1.7	U
8001-35-2	Toxaphene	34	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000032

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.26 (g/mL) G Lab File ID: RA19595.TX0

% Moisture: 11.1 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
319-86-8	delta-BHC	1.9	U
-74-9	Chlordane	18	U
72-54-8	4,4'-DDD	1.9	U
72-55-9	4,4'-DDE	1.9	U
50-29-3	4,4'-DDT	1.9	U
60-57-1	Dieldrin	1.9	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	1.9	U
1031-07-8	Endosulfan Sulfate	1.9	U
72-20-8	Endrin	1.9	U
7421-93-4	Endrin aldehyde	1.9	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
72-43-5	Methoxychlor	1.9	U
8001-35-2	Toxaphene	37	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.62 (g/mL) G Lab File ID: RA19596.TX0

% Moisture: 5.8 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
319-86-8	delta-BHC	1.7	U
-74-9	Chlordane	17	U
72-54-8	4,4'-DDD	1.7	U
72-55-9	4,4'-DDE	1.7	U
50-29-3	4,4'-DDT	1.7	U
60-57-1	Dieldrin	1.7	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	1.7	U
1031-07-8	Endosulfan Sulfate	1.7	U
72-20-8	Endrin	1.7	U
7421-93-4	Endrin aldehyde	1.7	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
72-43-5	Methoxychlor	1.7	U
8001-35-2	Toxaphene	34	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000034

Client No.

SPL-001

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.23 (g/mL) G Lab File ID: LA07031.TX0

% Moisture: 6.3 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	18	U
11104-28-2	Aroclor 1221	18	U
11141-16-5	Aroclor 1232	18	U
53469-21-9	Aroclor 1242	18	U
12672-29-6	Aroclor 1248	18	U
1097-69-1	Aroclor 1254	18	U
11096-82-5	Aroclor 1260	18	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000035

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 30.76 (g/mL) G Lab File ID: LA07032.TX0

% Moisture: 4.4 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	17	U
11104-28-2	Aroclor 1221	17	U
11141-16-5	Aroclor 1232	17	U
53469-21-9	Aroclor 1242	17	U
12672-29-6	Aroclor 1248	17	U
1097-69-1	Aroclor 1254	17	U
11096-82-5	Aroclor 1260	17	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000036

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.30 (g/mL) G Lab File ID: LA07033.TX0

% Moisture: 11.1 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	19	U
11104-28-2	Aroclor 1221	19	U
11141-16-5	Aroclor 1232	19	U
53469-21-9	Aroclor 1242	19	U
12672-29-6	Aroclor 1248	19	U
1097-69-1	Aroclor 1254	19	U
11096-82-5	Aroclor 1260	19	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.47 (g/mL) G Lab File ID: LA07034.TX0

% Moisture: 5.8 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	18	U
11104-28-2	Aroclor 1221	18	U
11141-16-5	Aroclor 1232	18	U
53469-21-9	Aroclor 1242	18	U
12672-29-6	Aroclor 1248	18	U
1097-69-1	Aroclor 1254	18	U
11096-82-5	Aroclor 1260	18	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.
SPL-001

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848001

Sample wt/vol: 30.52 (g/mL) G Lab File ID: MA67130.TX0

% Moisture: 6.3 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	18	U
93-72-1	2,4,5-TP (Silvex)	18	U
93-76-5	2,4,5-T	18	U
1918-00-9	Dicamba	18	U
9-85-7	Dinoseb	18	U
5-99-0	Dalapon	18	U
120-36-5	Dichloroprop	18	U
87-86-5	Pentachlorophenol	18	U
1918-02-1	Picloram	18	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000039

Client No.

SPL-002

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848002

Sample wt/vol: 28.18 (g/mL) G Lab File ID: MA67131.TX0

% Moisture: 4.4 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	19	U
93-72-1	2,4,5-TP (Silvex)	19	U
93-76-5	2,4,5-T	19	U
1918-00-9	Dicamba	19	U
3-85-7	Dinoseb	19	U
5-99-0	Dalapon	19	U
120-36-5	Dichloroprop	19	U
87-86-5	Pentachlorophenol	19	U
1918-02-1	Picloram	19	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000040

Client No.

SPL-003

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848003

Sample wt/vol: 30.76 (g/mL) G Lab File ID: MA67132.TX0

% Moisture: 11.1 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	19	U
93-72-1	2,4,5-TP (Silvex)	19	U
93-76-5	2,4,5-T	19	U
1918-00-9	Dicamba	19	U
[illegible]-85-7	Dinoseb	19	U
[illegible]-99-0	Dalapon	19	U
120-36-5	Dichloroprop	19	U
87-86-5	Pentachlorophenol	19	U
1918-02-1	Picloram	19	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000041

Client No.

SPL-004

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848004

Sample wt/vol: 30.93 (g/mL) G Lab File ID: MA67133.TX0

% Moisture: 5.8 decanted: (Y/N) N Date Samp/Recv: 08/22/2002 08/23/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	18	U
93-72-1	2,4,5-TP (Silvex)	18	U
93-76-5	2,4,5-T	18	U
1918-00-9	Dicamba	18	U
[illegible]-85-7	Dinoseb	18	U
[illegible]-99-0	Dalapon	18	U
120-36-5	Dichloroprop	18	U
87-86-5	Pentachlorophenol	18	U
1918-02-1	Picloram	18	U

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPL-001

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8480

Matrix (soil/water): SOIL Lab Sample ID: AD223146

Level (low/med): LOW Date Received: 8/23/02

% Solids: 94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4380			P
7440-36-0	Antimony	10.7	U		P
7440-38-2	Arsenic	1.7			P
7440-39-3	Barium	22.3			P
7440-41-7	Beryllium	0.53	U		P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	50400			P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	3.3			P
7440-50-8	Copper	8.5			P
7439-89-6	Iron	8800			P
7439-92-1	Lead	7.1			P
7439-95-4	Magnesium	21700			P
7439-96-5	Manganese	245			P
7440-02-0	Nickel	7.0			P
7440-09-7	Potassium	1030			P
7782-49-2	Selenium	3.2	U		P
7439-97-6	Mercury	0.021	U		CV
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	131			P
7440-28-0	Thallium	6.4	U		P
7440-62-2	Vanadium	11.0			P
7440-66-6	Zinc	51.3			P

Color Before: BROWN Clarity Before: N/A Texture: SAND

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPL-002

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8480

Matrix (soil/water): SOIL Lab Sample ID: AD223147

Level (low/med): LOW Date Received: 8/23/02

% Solids: 96

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2070			P
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	14.7			P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	57900			P
7440-47-3	Chromium	3.3			P
7440-48-4	Cobalt	2.2	U		P
7440-50-8	Copper	5.6			P
7439-89-6	Iron	4800			P
7439-92-1	Lead	5.4	U		P
7439-95-4	Magnesium	23600			P
7439-96-5	Manganese	149			P
7440-02-0	Nickel	3.4			P
7440-09-7	Potassium	622			P
7782-49-2	Selenium	3.3	U		P
7439-97-6	Mercury	0.020	U		CV
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	135			P
7440-28-0	Thallium	6.5	U		P
7440-62-2	Vanadium	6.4			P
7440-66-6	Zinc	35.2			P

Color Before: GRAY Clarity Before: N/A Texture: SAND

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPL-003

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8480

Matrix (soil/water): SOIL Lab Sample ID: AD223148

Level (low/med): LOW Date Received: 8/23/02

% Solids: 89

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	21600			P
7440-36-0	Antimony	11.5	U		P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	132			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.57	U		P
7440-70-2	Calcium	4360			P
7440-47-3	Chromium	26.9			P
7440-48-4	Cobalt	13.6			P
7440-50-8	Copper	18.6			P
7439-89-6	Iron	34700			P
7439-92-1	Lead	13.1			P
7439-95-4	Magnesium	6550			P
7439-96-5	Manganese	394			P
7440-02-0	Nickel	29.6			P
7440-09-7	Potassium	1870			P
7782-49-2	Selenium	3.4	U		P
7439-97-6	Mercury	0.021	U		CV
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	115	U		P
7440-28-0	Thallium	6.9	U		P
7440-62-2	Vanadium	39.2			P
7440-66-6	Zinc	77.5			P

Color Before: BROWN Clarity Before: N/A Texture: GRAVEL

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPL-004

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8480

Matrix (soil/water): SOIL Lab Sample ID: AD223149

Level (low/med): LOW Date Received: 8/23/02

% Solids: 94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2630			P
7440-36-0	Antimony	11.1	U		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	17.2			P
7440-41-7	Beryllium	0.55	U		P
7440-43-9	Cadmium	0.55	U		P
7440-70-2	Calcium	52100			P
7440-47-3	Chromium	4.1			P
7440-48-4	Cobalt	2.2	U		P
7440-50-8	Copper	6.4			P
7439-89-6	Iron	5840			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	21400			P
7439-96-5	Manganese	171			P
7440-02-0	Nickel	4.3			P
7440-09-7	Potassium	758			P
7782-49-2	Selenium	3.3	U		P
7439-97-6	Mercury	0.021	U		CV
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	137			P
7440-28-0	Thallium	6.6	U		P
7440-62-2	Vanadium	7.6			P
7440-66-6	Zinc	56.8			P

Color Before: BROWN Clarity Before: N/A Texture: CONGLOM

Color After: BROWN Clarity After: CLDY/FI Artifacts:

Comments:

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB79	107		103		113							0
2	SPL-001	105		99		110							0
3	SPL-002	105		99		111							0
4	SPL-003	108		104		113							0
5	SPL-004	104		100		111							0
6	VBLK79	102		101		112							0

			QC LIMITS
BFB	=	p-Bromofluorobenzene	(67-118)
DCE	=	1,2-Dichloroethane-D4	(63-133)
TOL	=	Toluene-D8	(78-118)

Column to be used to flag recovery values
Values outside of contract required QC limits
_ Surrogates diluted out

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

000047

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	2FP %REC	#	FBP %REC	#	NBZ %REC	#	PHL %REC	#	TBP %REC	#	TPH %REC	#			TOT OUT
1	Matrix Spike Blank	58		65		57		56		65		88				0
2	S BLANK	89		94		83		88		84		117				0
3	SPL-001	50		60		44		55		55		80				0
4	SPL-002	77		82		71		78		71		101				0
5	SPL-003	79		92		76		86		83		104				0
6	SPL-004	62		77		65		69		76		113				0

			QC LIMITS
2FP	=	2-Fluorophenol	(25-121)
FBP	=	2-Fluorobiphenyl	(27-128)
NBZ	=	Nitrobenzene-D5	(21-120)
PHL	=	Phenol-D5	(18-139)
TBP	=	2,4,6-Tribromophenol	(34-147)
TPH	=	p-Terphenyl-d14	(41-139)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8081 - TCL PESTICIDES
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): RTXCLPI ID: 0.32 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	107		72								0
2	Matrix Spike Blk Dup	90		76								0
3	Method Blank	93		79								0
4	SPL-001	93		77								0
5	SPL-002	91		77								0
6	SPL-003	86		79								0
7	SPL-004	84		75								0

QC LIMITS

(DCBP) = Decachlorobiphenyl (36-153)
(TCMX) = Tetrachloro-m-xylene (32-130)

Column to be used to flag recovery values
Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): ZB-35 ID: 0.53 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	102		84								0
2	Method Blank	98		82								0
3	SPL-001	124		76								0
4	SPL-002	98		81								0
5	SPL-003	94		82								0
6	SPL-004	84		70								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-148)

Column to be used to flag recovery values
* Values outside of contract required QC limits
Surrogates diluted out

METHOD 8151 - HERBICIDES FULL LIST
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): DB-XLB ID: 0.25 (um)

Level (low/med): LOW

	Client Sample ID	DCAA %REC #								TOT OUT
1	Matrix Spike Blank	83								0
2	Matrix Spike Blk Dup	100								0
3	Method Blank	116								0
4	SPL-001	100								0
5	SPL-002	101								0
6	SPL-003	49								0
7	SPL-004	94								0

QC LIMITS

(DCAA) = Dichlorophenyl Acetic Acid (17-133)

Column to be used to flag recovery values
Values outside of contract required QC limits
Surrogates diluted out

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2848005

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK79~~ MSB79 mTm 8/26/2002 Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	54.8	110	61 - 146
Trichloroethene	50.0	52.2	104	69 - 128
Benzene	50.0	51.8	104	71 - 128
Toluene	50.0	48.0	96	69 - 129
Chlorobenzene	50.0	51.2	102	72 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

000052

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0818902

Lal de: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: S BLANK Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
Phenol	3294	1691	51	34 - 120
2-Chlorophenol	3294	1804	55	32 - 120
1,4-Dichlorobenzene	3294	1632	50	25 - 120
N-Nitroso-Di-n-propyl (1)	3294	1460	44	33 - 121
1,2,4-Trichlorobenzene	3294	1704	52	32 - 120
4-Chloro-3-methylphenol	3294	1814	55	43 - 123
Acenaphthene	3294	1942	59	43 - 122
4-Nitrophenol	3294	1618	49	29 - 128
2,4-Dinitrotoluene	3294	1624	49	43 - 128
Pentachlorophenol	3294	1891	57	28 - 138
Pyrene	3294	2568	78	47 - 144

(1) N-Nitroso-Di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* ' ues outside of QC limits

Spike recovery: 0 out of 11 outside limits

Comments: _____

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000053

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0819203

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aldrin	32.5	26.9	83	48 - 128	
alpha-BHC	32.5	27.1	83	47 - 123	
beta-BHC	32.5	28.6	88	56 - 129	
delta-BHC	32.5	26.4	81	42 - 127	
gamma-BHC (Lindane)	32.5	27.6	85	42 - 136	
4,4'-DDD	32.5	29.1	90	42 - 133	
4,4'-DDE	32.5	27.7	85	44 - 136	
4,4'-DDT	32.5	30.5	94	49 - 148	
Dieldrin	32.5	28.3	87	51 - 132	
Endosulfan I	32.5	28.8	89	42 - 132	
Endosulfan II	32.5	31.7	97	44 - 135	
Endosulfan Sulfate	32.5	29.0	89	42 - 136	
Endrin aldehyde	32.5	32.3	99	37 - 123	
Endrin	32.5	28.1	86	41 - 132	
Heptachlor	32.5	26.6	82	43 - 127	
Heptachlor epoxide	32.5	28.3	87	45 - 128	
Methoxychlor	32.5	26.3	81	42 - 140	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	32.5	25.7	79	5	30	48 - 128	
alpha-BHC	32.5	25.4	78	6	30	47 - 123	
beta-BHC	32.5	27.0	83	6	30	56 - 129	
delta-BHC	32.5	25.1	77	5	30	42 - 127	
gamma-BHC (Lindane)	32.5	26.1	80	6	30	42 - 136	
4,4'-DDD	32.5	25.8	79	13	30	42 - 133	
4,4'-DDE	32.5	25.9	80	6	30	44 - 136	
4,4'-DDT	32.5	26.4	81	15	30	49 - 148	
Dieldrin	32.5	26.9	83	5	30	51 - 132	
Endosulfan I	32.5	26.9	83	7	30	42 - 132	
Endosulfan II	32.5	27.4	84	14	30	44 - 135	
Endosulfan Sulfate	32.5	27.9	86	3	30	42 - 136	
Endrin aldehyde	32.5	32.5	100	1	30	37 - 123	
Endrin	32.5	26.8	82	5	30	41 - 132	
Heptachlor	32.5	25.3	78	5	30	43 - 127	
Heptachlor epoxide	32.5	27.0	83	5	30	45 - 128	
Methoxychlor	32.5	25.9	80	1	30	42 - 140	

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY 000054

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0819203

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike recovery: 0 out of 34 outside limits

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0819302

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aroclor 1254	163	162	99	52 - 153	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 1 outside limits

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000056

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0819003

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
2,4-D	65.5	63.2	96	13 - 132	
Dalapon	65.5	33.5	51	16 - 122	
Dinoseb	65.5	100	154 *	10 - 120	
Pentachlorophenol	65.5	49.9	76	10 - 120	
Picloram	65.5	57.3	87	10 - 120	
2,4,5-TP (Silvex)	65.5	54.6	83	28 - 114	
2,4,5-T	65.5	63.9	97	40 - 110	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
2,4-D	66.4	78.2	118	20	30	13 - 132	
Dalapon	66.4	41.2	62	19	30	16 - 122	
Dinoseb	66.4	100	151 *	2	30	10 - 120	
Pentachlorophenol	66.4	61.8	93	20	30	10 - 120	
Picloram	66.4	64.5	97	11	30	10 - 120	
2,4,5-TP (Silvex)	66.4	68.3	103	22	30	28 - 114	
2,4,5-T	66.4	78.3	118 *	20	30	40 - 110	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits
Spike recovery: 3 out of 14 outside limits

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
METHOD BLANK SUMMARY

Client No.

VBLK79

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Q5935.RR Lab Sample ID: A2848005

Date Analyzed: 08/23/2002 Time Analyzed: 12:50

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB79	A2848006	Q5933.RR	11:06
2	SPL-001	A2848001	Q5941.RR	17:09
3	SPL-002	A2848002	Q5942.RR	17:44
4	SPL-003	A2848003	Q5943.RR	18:19
5	SPL-004	A2848004	Q5944.RR	18:54

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

VBLK79

L Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2848005

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q5935.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 08/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	25	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	25	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	5	U
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
METHOD BLANK SUMMARY

000059
Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Z52763.RR Lab Sample ID: A2B0818902

Instrument ID: I50Z-A Date Extracted: 08/26/2002

Matrix: (soil/water) SOIL Date Analyzed: 08/26/2002

Level: (low/med) LOW Time Analyzed: 16:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	Matrix Spike Blank	A2B0818901	Z52762.RR	08/26/2002
2	SPL-001	A2848001	Z52764.RR	08/26/2002
3	SPL-002	A2848002	Z52765.RR	08/26/2002
4	SPL-003	A2848003	Z52766.RR	08/26/2002
5	SPL-004	A2848004	Z52767.RR	08/26/2002

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000060

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0818902

Sample wt/vol: 30.01 (g/mL) G Lab File ID: Z52763.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
65-85-0	Benzoic acid	1600	U
100-51-6	Benzyl alcohol	330	U
111-91-1	Bis(2-chloroethoxy) methane	330	U
111-44-4	Bis(2-chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	Bis(2-ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
105-67-9	2,4-Dimethylphenol	330	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000061

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0818902

Sample wt/vol: 30.01 (g/mL) G Lab File ID: Z52763.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octyl phthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
86-30-6	N-nitrosodiphenylamine	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	800	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000062

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0818902

Sample wt/vol: 30.01 (g/mL) G Lab File ID: Z52763.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 08/26/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/26/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	330	U

METHOD 8081 - TCL PESTICIDES
METHOD BLANK SUMMARY

000063
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

La. Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0819203 Lab File ID: RA19592.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 08/26/2002

Date Analyzed (1): 08/28/2002 Date Analyzed (2): _____

Time Analyzed (1): 05:18 Time Analyzed (2): _____

Instrument ID (1): HP5890-18 Instrument ID (2): _____

GC Column (1): RTXCLPI Dia: 0.32(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0819201	08/28/2002	
2	Matrix Spike Blk Dup	A2B0819202	08/28/2002	
3	SPL-001	A2848001	08/28/2002	
4	SPL-002	A2848002	08/28/2002	
5	SPL-003	A2848003	08/28/2002	
6	SPL-004	A2848004	08/28/2002	

Comments: _____

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000064

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0819203

Sample wt/vol: 30.48 (g/mL) G Lab File ID: RA19592.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.6	U
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
319-86-8	delta-BHC	1.6	U
7-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	1.6	U
72-55-9	4,4'-DDE	1.6	U
50-29-3	4,4'-DDT	1.6	U
60-57-1	Dieldrin	1.6	U
959-98-8	Endosulfan I	1.6	U
33213-65-9	Endosulfan II	1.6	U
1031-07-8	Endosulfan Sulfate	1.6	U
72-20-8	Endrin	1.6	U
7421-93-4	Endrin aldehyde	1.6	U
76-44-8	Heptachlor	1.6	U
1024-57-3	Heptachlor epoxide	1.6	U
72-43-5	Methoxychlor	1.6	U
8001-35-2	Toxaphene	33	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
METHOD BLANK SUMMARY

000085
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

La. Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0819302 Lab File ID: LA07028.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 08/26/2002

Date Analyzed (1): 08/27/2002 Date Analyzed (2): _____

Time Analyzed (1): 02:17 Time Analyzed (2): _____

Instrument ID (1): HP5890-12 Instrument ID (2): _____

GC Column (1): ZB-35 Dia: 0.53 (mm) GC Column (2): _____ Dia: _____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0819301	08/27/2002	
2	SPL-001	A2848001	08/27/2002	
3	SPL-002	A2848002	08/27/2002	
4	SPL-003	A2848003	08/27/2002	
5	SPL-004	A2848004	08/27/2002	

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000066

Client No.

Method Blank

La' 'ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0819302

Sample wt/vol: 30.11 (g/mL) G Lab File ID: LA07028.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/27/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	17	U
11104-28-2	Aroclor 1221	17	U
11141-16-5	Aroclor 1232	17	U
53469-21-9	Aroclor 1242	17	U
12672-29-6	Aroclor 1248	17	U
1097-69-1	Aroclor 1254	17	U
11096-82-5	Aroclor 1260	17	U

METHOD 8151 - HERBICIDES FULL LIST
METHOD BLANK SUMMARY

000067
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0819003 Lab File ID: MA67136.TX0

Matrix: (soil/water) SOIL Extraction: SEPF

Sulfur Cleanup: (Y/N): N Date Extracted: 08/26/2002

Date Analyzed (1): 08/28/2002 Date Analyzed (2): _____

Time Analyzed (1): 02:17 Time Analyzed (2): _____

Instrument ID (1): HP5890-13 Instrument ID (2): _____

GC Column (1): DB-XLB Dia: 0.25(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0819001	08/28/2002	
2	Matrix Spike Blk Dup	A2B0819002	08/28/2002	
3	SPL-001	A2848001	08/27/2002	
4	SPL-002	A2848002	08/27/2002	
5	SPL-003	A2848003	08/27/2002	
6	SPL-004	A2848004	08/27/2002	

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000068

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0819003

Sample wt/vol: 30.10 (g/mL) G Lab File ID: MA67136.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 08/26/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/28/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	17	U
93-72-1	2,4,5-TP (Silvex)	17	U
93-76-5	2,4,5-T	17	U
1918-00-9	Dicamba	17	U
-85-7	Dinoseb	17	U
-99-0	Dalapon	17	U
120-36-5	Dichloroprop	17	U
87-86-5	Pentachlorophenol	17	U
1918-02-1	Picloram	17	U

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Antimony	100.0	U	100.0	U	100.0	U	100.0	U	10.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Chromium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Cobalt	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Copper	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Iron	150.0	U	150.0	U	150.0	U	150.0	U	15.000	U	P
Lead	50.0	U	50.0	U	50.0	U	50.0	U	5.000	U	P
Magnesium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Potassium	2000.0	U	2000.0	U	2000.0	U	2000.0	U	200.000	U	P
Selenium	30.0	U	30.0	U	30.0	U	30.0	U	3.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Sodium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Thallium	60.0	U	60.0	U	60.0	U	60.0	U	6.000	U	P
Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Zinc	19.9	U	19.9	U	19.9	U	19.9	U	1.990	U	P

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	200.0	U			P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			19.9	U	19.9	U	19.9	U			P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U					P
Antimony			100.0	U	100.0	U					P
Arsenic			10.0	U	10.0	U					P
Barium			10.0	U	10.0	U					P
Beryllium			5.0	U	5.0	U					P
Cadmium			5.0	U	5.0	U					P
Calcium			1000.0	U	1000.0	U					P
Chromium			20.0	U	20.0	U					P
Cobalt			20.0	U	20.0	U					P
Copper			20.0	U	20.0	U					P
Iron			150.0	U	150.0	U					P
Lead			50.0	U	50.0	U					P
Magnesium			200.0	U	200.0	U					P
Manganese			10.0	U	10.0	U					P
Nickel			20.0	U	20.0	U					P
Potassium			2000.0	U	2000.0	U					P
Selenium			30.0	U	30.0	U					P
Silver			10.0	U	10.0	U					P
Sodium			1000.0	U	1000.0	U					P
Thallium			60.0	U	60.0	U					P
Vanadium			10.0	U	10.0	U					P
Zinc			19.9	U	19.9	U					P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Calcium	1000.0	U	1000.0	U	1000.0	U					P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.020	U	CV

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8480

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.2	U							CV

METHOD 8260 - TCL VOLATILE ORGANICS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004044

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Q5932.RR Date Analyzed: 08/23/2002

Instrument ID: HP5973Q Time Analyzed: 10:31

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	264662		6.76		181580		9.19		560767		4.22	
	UPPER LIMIT	529324		7.26		363160		9.69		1121534		4.72	
	LOWER LIMIT	132331		6.26		90790		8.69		280384		3.72	
	CLIENT SAMPLE												
1	MSB79	253128		6.76		176291		9.19		537529		4.21	
2	SPL-001	247368		6.76		170890		9.19		515084		4.22	
3	SPL-002	240284		6.76		164682		9.19		503691		4.22	
4	SPL-003	236788		6.76		159228		9.19		493538		4.22	
5	SPL-004	232440		6.76		155133		9.19		484347		4.22	
6	VBLK79	224439		6.76		149087		9.19		487591		4.21	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004081

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Z52753.RR Date Analyzed: 08/26/2002

Instrument ID: I50Z-A Time Analyzed: 08:27

		IS1 (ANT) AREA	#	RT	#	IS2 (CRY) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	549482		14.75		969601		21.45		270483		7.77	
	UPPER LIMIT	1098964		15.25		1939202		21.95		540966		8.27	
	LOWER LIMIT	274741		14.25		484801		20.95		135242		7.27	
	CLIENT SAMPLE												
1	Matrix Spike Blank	445052		14.75		704413		21.45		229140		7.77	
2	S BLANK	422361		14.75		695598		21.45		214606		7.78	
3	SPL-001	470245		14.75		754023		21.45		234356		7.78	
4	SPL-002	464883		14.75		815239		21.45		235914		7.78	
5	SPL-003	426686		14.75		755847		21.45		214124		7.78	
6	SPL-004	469174		14.75		778174		21.45		239276		7.78	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (ANT) = Acenaphthene-D10	(50-200)	-0.50 / +0.50 min
IS2 (CRY) = Chrysene-D12	(50-200)	-0.50 / +0.50 min
IS3 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004081

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Z52753.RR Date Analyzed: 08/26/2002

Instrument ID: I50Z-A Time Analyzed: 08:27

		IS4 (NPT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1040390		10.62		901925		17.52		909607		23.93	
	UPPER LIMIT	2080780		11.12		1803850		18.02		1819214		24.43	
	LOWER LIMIT	520195		10.12		450963		17.02		454804		23.43	
	CLIENT SAMPLE												
1	Matrix Spike Blank	784686		10.63		731203		17.52		744714		23.93	
2	S BLANK	733062		10.65		713855		17.52		740451		23.93	
3	SPL-001	840104		10.63		804330		17.52		816893		23.93	
4	SPL-002	832763		10.65		826955		17.52		882289		23.93	
5	SPL-003	747282		10.65		740870		17.52		795204		23.93	
6	SPL-004	835922		10.63		802151		17.52		871274		23.93	

		AREA UNIT QC LIMITS	RT QC LIMITS
IS4 (NPT) =	Naphthalene-D8	(50-200)	-0.50 / +0.50 min
IS5 (PHN) =	Phenanthrene-D10	(50-200)	-0.50 / +0.50 min
IS6 (PRY) =	Perylene-D12	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2848001	SPL-001	08/22/2002	10:00	08/23/2002	14:40
A2848002	SPL-002	08/22/2002	09:40	08/23/2002	14:40
A2848003	SPL-003	08/22/2002	11:20	08/23/2002	14:40
A2848004	SPL-004	08/22/2002	09:50	08/23/2002	14:40

METHODS SUMMARY

Job#: A02-8480

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8480

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8480
Sample Cooler(s) were received at the following temperature(s); 14 °C
All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A2I0000893-1 exhibited the %RSD of Methylene Chloride and Acetone as greater than 15%. Linear regression was used to calculate the concentration of these analytes when detected.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 8151, several analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Dinoseb exhibited positive bias and a % difference result greater than 15% in the continuing calibration. No corrective action was taken, all field samples were non-detect for the analytes mentioned.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

SEVERN TRENT SERVICES

000083

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The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

K. C. Kozerek for

Susan L. Mazur
Laboratory Director

8/30/2012

Date

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES **Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client: Blasland Bouck & Lee	Project Manager: Joe Molina	Date: 8/22/02	Chain of Custody Number: 114689
Address: 1400 Sweet Home Rd. Suite 1	Telephone Number (Area Code)/Fax Number: (716) 681-1544	Lab Number	Page 1 of 1
City: Amherst; State: NY; Zip Code: 14228	Site Contact: Bruce Fraser	Lab Contact	
Project Name and Location (State): Bern Metals, Buffalo, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 77811.005			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCL Volatiles	TCL Semi-Volatiles	Pesticides	PCBs	Herbicides	TAL Metals (23)	Special Instructions/ Conditions of Receipt
SPL-001	8/22/02	10:00				X							✓	✓	✓	✓	✓	✓	Composite
SPL-002	8/22/02	9:40				X							✓	✓	✓	✓	✓	✓	composite
SPL-003	8/22/02	11:20				X							✓	✓	✓	✓	✓	✓	composite
SPL-004	8/22/02	9:50				X							✓	✓	✓	✓	✓	✓	composite

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Bruce A. Fraser	8/23/02	2:45	1. Received By: [signature]	8-23-02	14:40
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: 14°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A02-8846

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.
Task: Bern Metal/Universal Metal Site

Douglas Ruszczyk
1400 Sweet Home Road
Suite 1
Amherst, NY 14228

STL Buffalo

Candace L. Fox
Candace L. Fox
Project Manager

Susan L. Mazur
Susan L. Mazur
Laboratory Director

09/20/2002

This report contains 1383 pages which are individually numbered.

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2884602	BCS-02	09/06/2002	10:45	09/06/2002	16:20
A2884603	BM25A-01	09/06/2002	15:15	09/06/2002	16:20

METHODS SUMMARY

Job#: A02-8846

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8846

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8846
Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
LAF-01 was composited in SC into 1 1LGA.

BCS-02 was composited in SC into 1 1LGA.

Hold LAF-01 and BCS-02 at clients request.

GC/MS Volatile Data

As a result of low volume, sample BCS-02 was analyzed from a jar with headspace.

The analytes Acetone and Methylene Chloride were detected in the Method Blank (VBLK98) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For Method 8082 analysis, the continuing calibration verification for Aroclor 1016 analyzed just prior to the samples slightly exceeded the quality control limit of less than or equal to 15 percent difference. All other quality control criteria were met. There were no sample hits for Aroclor 1016; no corrective action was indicated.

SEVERN TRENT SERVICES

For method 8151 surrogate Dichlorophenyl Acetic Acid was elevated above quality control limits for sample A2B0883301 (MSB). No corrective action was taken, all other quality control is compliant and all field samples were non-detect for all target analytes.

Metals Data

The recovery of Antimony fell below the QC limits in sample BCS-02 Matrix Spike and Matrix Spike Duplicate. The LCS was acceptable.

The recovery of sample BCS-02 Matrix Spike fell above the Quality Control Limits for Iron, Magnesium, and Manganese. The recovery of sample BCS-02 Matrix Spike Duplicate fell above the Quality Control Limits for Aluminum, Iron, Magnesium, and Manganese. The sample results were more than four times greater than the spike added, therefore, no qualifiers are needed. The LCS was acceptable for all elements.

The recovery of Lead fell above the QC limits in sample BM25A-01 Matrix Spike and Matrix Spike Duplicate. The sample results are more than four times greater than the spike added, therefore, no qualifiers are needed. The LCS was acceptable.

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The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Mazur
Laboratory Director

9/20/02
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
BCS-02	A2884602	SW8463	SW8463	-	SW8463	SW8463	-
BM25A-01	A2884603	-	-	-	-	SW8463	-
LAF-01	A2884601	-	-	-	-	-	-

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
BCS-02	SOIL	09/06/2002	09/06/2002	-	09/12/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
BCS-02	SOIL	09/06/2002	09/06/2002	09/12/2002	09/12/2002

NYSDEC-3

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
BCS-02	SOIL	09/06/2002	09/06/2002	09/12/2002	09/13,16/2002

NYSDEC-4

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
BCS-02	SOIL	HSL ME	09/06/2002	09/10,13/2002	09/11,13/2002
BM25A-01	SOIL	T PB	09/06/2002	09/09/2002	09/10/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
BCS-02	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
BCS-02	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
BM25A-01	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1.1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance

E Indicates a value estimated or not reported due to the presence of interferences

H Indicates analytical holding time exceedance. The value obtained should be considered an estimate

* Indicates analysis is not within the quality control limits

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

BCS-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000014

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 5.17 (g/mL) G Lab File ID: Q6153.RR

Level: (low/med) LOW Date Samp/Recv: 09/06/2002 09/06/2002

% Moisture: not dec. 11.9 Heated Purge: Y Date Analyzed: 09/12/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	10	BJ
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	11	U
78-93-3	2-Butanone	27	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	11	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	11	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	11	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	11	U
75-09-2	Methylene chloride	15	B
108-10-1	4-Methyl-2-pentanone	27	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	11	U
75-01-4	Vinyl chloride	11	U
1330-20-7	Total Xylenes	16	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

BCS-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000015

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.63 (g/mL) G Lab File ID: Z52939.RR

Level: (low/med) LOW Date Samp/Recv: 09/06/2002 09/06/2002

% Moisture: 11.9 decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	370	U
208-96-8	Acenaphthylene	370	U
120-12-7	Anthracene	370	U
56-55-3	Benzo(a)anthracene	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
191-24-2	Benzo(ghi)perylene	370	U
50-32-8	Benzo(a)pyrene	370	U
65-85-0	Benzoic acid	1800	U
100-51-6	Benzyl alcohol	370	U
111-91-1	Bis(2-chloroethoxy) methane	370	U
111-44-4	Bis(2-chloroethyl) ether	370	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370	U
117-81-7	Bis(2-ethylhexyl) phthalate	370	U
101-55-3	4-Bromophenyl phenyl ether	370	U
85-68-7	Butyl benzyl phthalate	370	U
106-47-8	4-Chloroaniline	370	U
59-50-7	4-Chloro-3-methylphenol	370	U
91-58-7	2-Chloronaphthalene	370	U
95-57-8	2-Chlorophenol	370	U
7005-72-3	4-Chlorophenyl phenyl ether	370	U
218-01-9	Chrysene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
132-64-9	Dibenzofuran	370	U
84-74-2	Di-n-butyl phthalate	370	U
95-50-1	1,2-Dichlorobenzene	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
91-94-1	3,3'-Dichlorobenzidine	730	U
120-83-2	2,4-Dichlorophenol	370	U
84-66-2	Diethyl phthalate	370	U
105-67-9	2,4-Dimethylphenol	370	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

BCS-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000016

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.63 (g/mL) G Lab File ID: Z52939.RR

Level: (low/med) LOW Date Samp/Recv: 09/06/2002 09/06/2002

% Moisture: 11.9 decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	370	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
51-28-5	2,4-Dinitrophenol	1800	U
121-14-2	2,4-Dinitrotoluene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
117-84-0	Di-n-octyl phthalate	370	U
206-44-0	Fluoranthene	370	U
86-73-7	Fluorene	370	U
118-74-1	Hexachlorobenzene	370	U
87-68-3	Hexachlorobutadiene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
67-72-1	Hexachloroethane	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
78-59-1	Isophorone	370	U
91-57-6	2-Methylnaphthalene	370	U
95-48-7	2-Methylphenol	370	U
106-44-5	4-Methylphenol	370	U
91-20-3	Naphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
99-09-2	3-Nitroaniline	1800	U
100-01-6	4-Nitroaniline	1800	U
98-95-3	Nitrobenzene	370	U
88-75-5	2-Nitrophenol	370	U
100-02-7	4-Nitrophenol	1800	U
86-30-6	N-nitrosodiphenylamine	370	U
621-64-7	N-Nitroso-Di-n-propylamine	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	370	U
108-95-2	Phenol	370	U
129-00-0	Pyrene	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
95-95-4	2,4,5-Trichlorophenol	890	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

BCS-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000017

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.63 (g/mL) G Lab File ID: Z52939.RR

Level: (low/med) LOW Date Samp/Recv: 09/06/2002 09/06/2002

% Moisture: 11.9 decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	370	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

BCS-02

000018

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.89 (g/mL) G Lab File ID: RB20266.TX0

% Moisture: 11.9 decanted: (Y/N) N Date Samp/Recv: 09/06/2002 09/06/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
319-86-8	delta-BHC	1.8	U
7-74-9	Chlordane	18	U
72-54-8	4,4'-DDD	1.8	U
72-55-9	4,4'-DDE	1.8	U
50-29-3	4,4'-DDT	1.8	U
60-57-1	Dieldrin	1.8	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	1.8	U
1031-07-8	Endosulfan Sulfate	1.8	U
72-20-8	Endrin	1.8	U
7421-93-4	Endrin aldehyde	1.8	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
72-43-5	Methoxychlor	1.8	U
8001-35-2	Toxaphene	36	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

Client No.

BCS-02

La ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000019

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.07 (g/mL) G Lab File ID: NA10464.TX0

% Moisture: 11.9 decanted: (Y/N) N Date Samp/Recv: 09/06/2002 09/06/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/13/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	19	U
11104-28-2	Aroclor 1221	19	U
11141-16-5	Aroclor 1232	19	U
53469-21-9	Aroclor 1242	19	U
2672-29-6	Aroclor 1248	19	U
1097-69-1	Aroclor 1254	19	U
11096-82-5	Aroclor 1260	19	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

BCS-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000020

Matrix: (soil/water) SOIL Lab Sample ID: A2884602

Sample wt/vol: 30.00 (g/mL) G Lab File ID: MA67337.TX0

% Moisture: 11.9 decanted: (Y/N) N Date Samp/Recv: 09/06/2002 09/06/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	19	U
93-72-1	2,4,5-TP (Silvex)	19	U
93-76-5	2,4,5-T	19	U
1918-00-9	Dicamba	19	U
88-85-7	Dinoseb	19	U
75-99-0	Dalapon	19	U
120-36-5	Dichloroprop	19	U
87-86-5	Pentachlorophenol	19	U
1918-02-1	Picloram	19	U

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO. 000021

BCS-02

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8846

Matrix (soil/water): SOIL Lab Sample ID: AD225569

Level (low/med): LOW Date Received: 9/6/02

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7090			P
7440-36-0	Antimony	11.8	U	N	P
7440-38-2	Arsenic	3.1			P
7440-39-3	Barium	40.2			P
7440-41-7	Beryllium	0.59	U		P
7440-43-9	Cadmium	0.59	U		P
7440-70-2	Calcium	37500		E	P
7440-70-2	Calcium	50100			P
7440-47-3	Chromium	9.5			P
7440-48-4	Cobalt	4.9			P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	12400		E	P
7439-92-1	Lead	8.2			P
7439-95-4	Magnesium	16300		E	P
7439-96-5	Manganese	301		E	P
7440-02-0	Nickel	11.7			P
7440-09-7	Potassium	1360			P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	1.2	U		P
7439-97-6	Mercury	0.023	U		CV
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	7.1	U		P
7440-62-2	Vanadium	15.0			P
7440-66-6	Zinc	48.1			P

Color Before: BROWN Clarity Before: N/A Texture: SILT

Color After: YELLOW Clarity After: CLDY/F Artifacts:

Comments:

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-1-

INORGANIC ANALYSIS DATA SHEET

000022

SAMPLE NO.

BM25A-01

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8846

Matrix (soil/water): SOIL Lab Sample ID: AD225218

Level (low/med): LOW Date Received: 9/6/02

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	1290		E	P

Color Before: BLACK Clarity Before: N/A Texture: SILT

Color After: BLACK Clarity After: CLDY/FI Artifacts:

Comments:

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	BCS-02	98		103		100							0
2	MSB98	95		99		96							0
3	vblk98	97		105		98							0

			QC LIMITS
BFB	=	p-Bromofluorobenzene	(67-118)
DCE	=	1,2-Dichloroethane-D4	(63-133)
TOL	=	Toluene-D8	(78-118)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____ 000024

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	2FP %REC	#	FBP %REC	#	NBZ %REC	#	PHL %REC	#	TBP %REC	#	TPH %REC	#			TOT OUT
1	BCS-02	93		105		99		91		91		106				0
2	Matrix Spike Blank	98		112		103		98		106		122				0
3	Matrix Spike Blk Dup	93		107		101		93		100		122				0
4	S BLANK	97		114		107		99		104		117				0

			QC LIMITS
2FP	=	2-Fluorophenol	(25-121)
FBP	=	2-Fluorobiphenyl	(27-128)
NBZ	=	Nitrobenzene-D5	(21-120)
PHL	=	Phenol-D5	(18-139)
TBP	=	2,4,6-Tribromophenol	(34-147)
TPH	=	p-Terphenyl-d14	(41-139)

Column to be used to flag recovery values
Values outside of contract required QC limits
Surrogates diluted out

METHOD 8081 - TCL PESTICIDES
SOIL SURROGATE RECOVERY

000025

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): RTXCLPII ID: 0.32 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	BCS-02	81		78								0
2	Matrix Spike Blank	92		86								0
3	Matrix Spike Blk Dup	89		84								0
4	Method Blank	85		82								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-130)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL SURROGATE RECOVERY

000026

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): ZB-35 ID: 0.53 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	BCS-02	96		88								0
2	Matrix Spike Blank	89		86								0
3	Method Blank	92		86								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-148)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8151 - HERBICIDES FULL LIST
SOIL SURROGATE RECOVERY

000027

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): DB-XLB ID: 0.00 (um)

Level (low/med): LOW

	Client Sample ID	DCAA %REC	#								TOT OUT
1	BCS-02	111									0
2	Matrix Spike Blank	146	*								1
3	Method Blank	78									0

QC LIMITS

(DCAA) = Dichlorophenyl Acetic Acid (17-133)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2884604

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000028

Matrix Spike - Client Sample No.: vblk98 Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	62.9	126	61 - 146
Trichloroethene	50.0	62.4	125	69 - 128
Benzene	50.0	63.9	128	71 - 128
Toluene	50.0	57.2	114	69 - 129
Chlorobenzene	50.0	57.4	115	72 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0883403

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: S BLANK Level: (low/med) LOW

000029

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
Phenol	3293	2997	91	34 - 120
2-Chlorophenol	3293	2942	89	32 - 120
1,4-Dichlorobenzene	3293	2672	81	25 - 120
N-Nitroso-Di-n-propyl (1)	3293	2748	83	33 - 121
1,2,4-Trichlorobenzene	3293	2790	85	32 - 120
4-Chloro-3-methylphenol	3293	3325	101	43 - 123
Acenaphthene	3293	3070	93	43 - 122
4-Nitrophenol	3293	3094	94	29 - 128
2,4-Dinitrotoluene	3293	2999	91	43 - 128
Pentachlorophenol	3293	3462	105	28 - 138
Pyrene	3293	3958	120	47 - 144

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3303	2824	85	7	34	34 - 120
2-[illegible]rophenol	3303	2821	85	4	33	32 - 120
1,4-Dichlorobenzene	3303	2496	76	6	28	25 - 120
N-Nitroso-Di-n-propylami	3303	2632	80	4	25	33 - 121
1,2,4-Trichlorobenzene	3303	2693	82	4	30	32 - 120
4-Chloro-3-methylphenol	3303	3311	100	1	24	43 - 123
Acenaphthene	3303	3075	93	0	25	43 - 122
4-Nitrophenol	3303	3017	91	3	38	29 - 128
2,4-Dinitrotoluene	3303	3121	94	3	26	43 - 128
Pentachlorophenol	3303	2838	86	20	32	28 - 138
Pyrene	3303	4066	123	2	25	47 - 144

(1) N-Nitroso-Di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike recovery: 0 out of 22 outside limits

Comments: _____

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0883103

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

000030

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aldrin	33.1	31.2	94	48 - 128	
alpha-BHC	33.1	30.8	93	47 - 123	
beta-BHC	33.1	32.2	97	56 - 129	
delta-BHC	33.1	25.4	77	42 - 127	
gamma-BHC (Lindane)	33.1	31.0	94	42 - 136	
4,4'-DDD	33.1	30.2	91	42 - 133	
4,4'-DDE	33.1	31.3	95	44 - 136	
4,4'-DDT	33.1	29.9	90	49 - 148	
Dieldrin	33.1	31.5	95	51 - 132	
Endosulfan I	33.1	31.0	93	42 - 132	
Endosulfan II	33.1	31.7	96	44 - 135	
Endosulfan Sulfate	33.1	28.8	87	42 - 136	
Endrin aldehyde	33.1	28.7	87	37 - 123	
Endrin	33.1	32.1	97	41 - 132	
Heptachlor	33.1	30.3	92	43 - 127	
Heptachlor epoxide	33.1	31.7	96	45 - 128	
Methoxychlor	33.1	31.9	96	42 - 140	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	33.2	28.9	87	8	30	48 - 128	
alpha-BHC	33.2	30.1	90	3	30	47 - 123	
beta-BHC	33.2	31.5	95	2	30	56 - 129	
delta-BHC	33.2	27.1	82	6	30	42 - 127	
gamma-BHC (Lindane)	33.2	30.6	92	2	30	42 - 136	
4,4'-DDD	33.2	29.4	89	2	30	42 - 133	
4,4'-DDE	33.2	30.4	92	3	30	44 - 136	
4,4'-DDT	33.2	29.5	89	1	30	49 - 148	
Dieldrin	33.2	30.3	91	4	30	51 - 132	
Endosulfan I	33.2	30.0	90	3	30	42 - 132	
Endosulfan II	33.2	31.1	94	2	30	44 - 135	
Endosulfan Sulfate	33.2	28.2	85	2	30	42 - 136	
Endrin aldehyde	33.2	28.7	86	1	30	37 - 123	
Endrin	33.2	31.4	94	3	30	41 - 132	
Heptachlor	33.2	29.7	90	2	30	43 - 127	
Heptachlor epoxide	33.2	30.2	91	5	30	45 - 128	
Methoxychlor	33.2	31.5	95	1	30	42 - 140	

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0883103

La ode: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level:(low/med) LOW 000031

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.	+

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike recovery: 0 out of 34 outside limits

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0883202

La ode: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

000032

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aroclor 1254	163	146	89	52 - 153	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 1 outside limits

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0883303

La xde: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level:(low/med) LOW

000033

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
2,4-D	66.6	61.6	92	13 - 132	
Dalapon	66.6	33.1	50	16 - 122	
Dinoseb	66.6	16.9	25	10 - 120	
Pentachlorophenol	66.6	54.6	82	10 - 120	
Picloram	66.6	77.3	116	10 - 120	
2,4,5-TP (Silvex)	66.6	52.4	79	28 - 114	
2,4,5-T	66.6	53.0	80	40 - 110	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 7 outside limits

Co nts: _____

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

000034

SAMPLE NO.

BCS-02 MS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		7541.5381		6251.0181		1091.05	118.3		P
Antimony	75 - 125	10.9105	U	10.9105	U	21.82	46.1	N	P
Arsenic	75 - 125	22.9218		2.7375		21.82	92.5		P
Barium	75 - 125	54.1355		35.4521		21.82	85.6		P
Beryllium	75 - 125	19.7872		0.5455	U	21.82	90.7		P
Cadmium	75 - 125	20.2116		0.5455	U	21.82	92.6		P
Chromium	75 - 125	28.7698		8.4062		21.82	93.3		P
Cobalt	75 - 125	24.2070		4.3188		21.82	91.1		P
Copper	75 - 125	33.0849		10.9042		21.82	101.6		P
Iron		11006.0996		10920.8203		43.64	195.4		P
Lead	75 - 125	27.0088		7.2271		21.82	90.7		P
Magnesium		18921.0605		14383.3301		1091.05	415.9		P
Manganese		309.5013		265.7010		21.82	200.7		P
Nickel	75 - 125	29.3317		10.2979		21.82	87.2		P
Potassium	75 - 125	2132.7109		1200.7460		1091.05	85.4		P
Selenium	75 - 125	18.7464		3.2731	U	21.82	85.9		P
Silver	75 - 125	5.2283		1.0910	U	5.46	95.8		P
Sodium	75 - 125	1095.0570		109.1046	U	1091.05	100.4		P
Thallium	75 - 125	18.8380		6.5463	U	21.82	86.3		P
Vanadium	75 - 125	32.9485		13.2427		21.82	90.3		P
Zinc	75 - 125	65.8610		42.3833		21.82	107.6		P

Comments: _____

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

000035

SAMPLE NO.

BCS-02 SD

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		7757.0381		6251.0181		1181.97	127.4		P
Antimony	75 - 125	11.8197	U	11.8197	U	23.64	47.6	N	P
Arsenic	75 - 125	24.8071		2.7375		23.64	93.4		P
Barium	75 - 125	58.9068		35.4521		23.64	99.2		P
Beryllium	75 - 125	21.3983		0.5910	U	23.64	90.5		P
Cadmium	75 - 125	21.7978		0.5910	U	23.64	92.2		P
Chromium	75 - 125	30.5290		8.4062		23.64	93.6		P
Cobalt	75 - 125	25.9158		4.3188		23.64	91.4		P
Copper	75 - 125	33.4106		10.9042		23.64	95.2		P
Iron		11498.9199		10920.8203		47.28	1222.8		P
Lead	75 - 125	28.7490		7.2271		23.64	91.0		P
Magnesium		16694.5801		14383.3301		1181.97	195.5		P
Manganese		313.3830		265.7010		23.64	201.7		P
Nickel	75 - 125	31.1389		10.2979		23.64	88.2		P
Potassium	75 - 125	2226.3879		1200.7460		1181.97	86.8		P
Selenium	75 - 125	19.9291		3.5459	U	23.64	84.3		P
Silver	75 - 125	5.6900		1.1820	U	5.91	96.3		P
Sodium	75 - 125	1179.0520		118.1966	U	1181.97	99.8		P
Thallium	75 - 125	20.6111		7.0918	U	23.64	87.2		P
Vanadium	75 - 125	34.5642		13.2427		23.64	90.2		P
Zinc	75 - 125	64.7540		42.3833		23.64	94.6		P

Comments: _____

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

000036

SAMPLE NO.

BM25A-01 MS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead		1965.9490		1290.7190		23.20	2910.6		P

Comments: _____

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

000037

SAMPLE NO.

BM25A-01 SD

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead		1457.1230		1290.7190		23.68	702.7		P

Comments: _____

STL BUFFALO

BLASLAND BOUCK & LEE, INC.
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

000038

SAMPLE NO.

BCS-02A

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Aluminum		69051.14		60009.77		10000.0	90.4		P
Antimony		191.08		100.00	U	200.0	95.5		P
Arsenic		211.84		26.28		200.0	92.8		P
Barium		528.13		340.34		200.0	93.9		P
Beryllium		182.29		5.00	U	200.0	91.1		P
Cadmium		185.92		5.00	U	200.0	93.0		P
Calcium		361456.00		359654.91		10000.0	18.0		P
Chromium		258.67		80.70		200.0	89.0		P
Cobalt		221.23		41.46		200.0	89.9		P
Copper		292.82		104.68		200.0	94.1		P
Iron		103280.60		104839.90		400.0	-389.8		P
Lead		246.57		69.38		200.0	88.6		P
Magnesium		144568.50		138080.00		10000.0	64.9		P
Manganese		2687.04		2550.73		200.0	68.2		P
Nickel		271.52		98.86		200.0	86.3		P
Potassium		21474.73		11527.16		10000.0	99.5		P
Selenium		172.04		30.00	U	200.0	86.0		P
Silver		49.97		10.00	U	50.0	99.9		P
Sodium		10186.49		1000.00	U	10000.0	101.9		P
Thallium		179.54		60.00	U	200.0	89.8		P
Vanadium		306.79		127.13		200.0	89.8		P
Zinc		568.19		406.88		200.0	80.7		P

Comments:

STL BUFFALO

BLASLAND BOUCK & LEE, INC.
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

000039

SAMPLE NO.

BM25A-01A

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Lead		11226.13		11127.37		200.0	49.4		P

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
METHOD BLANK SUMMARY

Client No.

vblk98

000040

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Q6151.RR Lab Sample ID: A2884604

Date Analyzed: 09/12/2002 Time Analyzed: 12:03

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	BCS-02	A2884602	Q6153.RR	12:39
2	MSB98	A2884605	Q6149.RR	11:26

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

vblk98

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000041

Matrix: (soil/water) SOIL Lab Sample ID: A2884604

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q6151.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/12/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	7	J
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	25	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	3	J
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
METHOD BLANK SUMMARY

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Z52938.RR Lab Sample ID: A2B0883403

000042

Instrument ID: I50Z-A Date Extracted: 09/12/2002

Matrix: (soil/water) SOIL Date Analyzed: 09/12/2002

Level: (low/med) LOW Time Analyzed: 18:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	BCS-02	A2884602	Z52939.RR	09/12/2002
2	Matrix Spike Blank	A2B0883401	Z52936.RR	09/12/2002
3	Matrix Spike Blk Dup	A2B0883402	Z52937.RR	09/12/2002

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000043

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883403

Sample wt/vol: 30.13 (g/mL) G Lab File ID: Z52938.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
65-85-0	Benzoic acid	1600	U
100-51-6	Benzyl alcohol	330	U
111-91-1	Bis(2-chloroethoxy) methane	330	U
111-44-4	Bis(2-chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	Bis(2-ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
105-67-9	2,4-Dimethylphenol	330	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000044

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883403

Sample wt/vol: 30.13 (g/mL) G Lab File ID: Z52938.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octyl phthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
86-30-6	N-nitrosodiphenylamine	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	800	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000045

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883403

Sample wt/vol: 30.13 (g/mL) G Lab File ID: Z52938.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/12/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	330	U

METHOD 8081 - TCL PESTICIDES
METHOD BLANK SUMMARY

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0883103 Lab File ID: RB20265.TX0 000046

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 09/12/2002

Date Analyzed (1): 09/16/2002 Date Analyzed (2): _____

Time Analyzed (1): 14:50 Time Analyzed (2): _____

Instrument ID (1): HP5890-18 Instrument ID (2): _____

GC Column (1): RTXCLPII Dia: 0.32(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	BCS-02	A2884602	09/16/2002	
2	Matrix Spike Blank	A2B0883101	09/16/2002	
3	Matrix Spike Blk Dup	A2B0883102	09/16/2002	

Comments: _____

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Method Blank

L. Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000047

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883103

Sample wt/vol: 30.26 (g/mL) G Lab File ID: RB20265.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/16/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.6	U
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
319-86-8	delta-BHC	1.6	U
57-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	1.6	U
72-55-9	4,4'-DDE	1.6	U
50-29-3	4,4'-DDT	1.6	U
60-57-1	Dieldrin	1.6	U
959-98-8	Endosulfan I	1.6	U
33213-65-9	Endosulfan II	1.6	U
1031-07-8	Endosulfan Sulfate	1.6	U
72-20-8	Endrin	1.6	U
7421-93-4	Endrin aldehyde	1.6	U
76-44-8	Heptachlor	1.6	U
1024-57-3	Heptachlor epoxide	1.6	U
72-43-5	Methoxychlor	1.6	U
8001-35-2	Toxaphene	33	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
METHOD BLANK SUMMARY

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0883202 Lab File ID: NA10447.TX0 0048

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 09/12/2002

Date Analyzed (1): 09/12/2002 Date Analyzed (2): _____

Time Analyzed (1): 17:19 Time Analyzed (2): _____

Instrument ID (1): HP5890-14 Instrument ID (2): _____

GC Column (1): ZB-35 Dia: 0.53 (mm) GC Column (2): _____ Dia: _____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	BCS-02	A2884602	09/13/2002	
2	Matrix Spike Blank	A2B0883201	09/12/2002	

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

Client No.

Method Blank

La ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883202 000049

Sample wt/vol: 30.16 (g/mL) G Lab File ID: NA10447.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/12/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	17	U
11104-28-2	Aroclor 1221	17	U
11141-16-5	Aroclor 1232	17	U
53469-21-9	Aroclor 1242	17	U
2672-29-6	Aroclor 1248	17	U
1097-69-1	Aroclor 1254	17	U
11096-82-5	Aroclor 1260	17	U

METHOD 8151 - HERBICIDES FULL LIST
METHOD BLANK SUMMARY

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 000050

Lab Sample ID: A2B0883303 Lab File ID: MA67340.TX0

Matrix: (soil/water) SOIL Extraction: SEPF

Sulfur Cleanup: (Y/N): N Date Extracted: 09/12/2002

Date Analyzed (1): 09/19/2002 Date Analyzed (2): _____

Time Analyzed (1): 19:11 Time Analyzed (2): _____

Instrument ID (1): HP5890-13 Instrument ID (2): _____

GC Column (1): DB-XLB Dia: ____(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	BCS-02	A2884602	09/19/2002	
2	Matrix Spike Blank	A2B0883301	09/19/2002	

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

Method Blank

La ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

000051

Matrix: (soil/water) SOIL Lab Sample ID: A2B0883303

Sample wt/vol: 30.03 (g/mL) G Lab File ID: MA67340.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/12/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	17	U
93-72-1	2,4,5-TP (Silvex)	17	U
93-76-5	2,4,5-T	17	U
1918-00-9	Dicamba	17	U
8-85-7	Dinoseb	17	U
75-99-0	Dalapon	17	U
120-36-5	Dichloroprop	17	U
87-86-5	Pentachlorophenol	17	U
1918-02-1	Picloram	17	U

BLASLAND BOUCK & LEE, INC.

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BLANKS

000052

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	-1253.3		-1217.1		-1250.7		-1214.6		-123.160		P
Antimony	100.0	U	100.0	U	100.0	U	100.0	U	10.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Chromium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Cobalt	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Copper	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Iron	150.0	U	150.0	U	150.0	U	150.0	U	15.000	U	P
Lead	50.0	U	50.0	U	50.0	U	50.0	U	5.000	U	P
Magnesium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Potassium	2000.0	U	2000.0	U	2000.0	U	2000.0	U	200.000	U	P
Selenium	30.0	U	30.0	U	30.0	U	30.0	U	3.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Sodium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Thallium	60.0	U	60.0	U	60.0	U	60.0	U	6.000	U	P
Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			-1197.5		-1265.4		-1253.0				P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			10.0	U	10.0	U	10.0	U			P

BLASLAND BOUCK & LEE, INC.

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BLANKS

000054

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			-1256.5		-1247.7		-1251.3				P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			10.0	U	10.0	U	10.0	U			P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			-1235.0		-1217.8		-1254.9				P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			10.0	U	10.0	U	10.0	U			P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Lead	50.0	U	50.0	U	50.0	U	50.0	U	5.000	U	P

BLASLAND BOUCK & LEE, INC.

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BLANKS

000057

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Lead			50.0	U	50.0	U	50.0	U			P

BLASLAND BOUCK & LEE, INC.

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BLANKS

000055

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Lead			50.0	U							P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		M
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U					P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.0	U	1000.0	U	1000.0	U			P

BLASLAND BOUCK & LEE, INC.

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8846

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.2	U	0.2	U	0.2	U			0.020	U	CV

METHOD 8260 - TCL VOLATILE ORGANICS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004553

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Q6147.RR Date Analyzed: 09/12/2002

Instrument ID: HP5973Q Time Analyzed: 10:30

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	265803		6.76		230220		9.19		477232		4.22	
	UPPER LIMIT	531606		7.26		460440		9.69		954464		4.72	
	LOWER LIMIT	132902		6.26		115110		8.69		238616		3.72	
	CLIENT SAMPLE												
1	BCS-02	246790		6.77		199231		9.19		453440		4.23	
2	MSB98	250600		6.76		206671		9.19		454971		4.22	
3	vblk98	256881		6.76		213558		9.19		461398		4.23	

		AREA UNIT QC LIMITS	RT QC LIMITS
(CBZ) =	Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) =	1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) =	1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000063

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004559

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Z52925.RR Date Analyzed: 09/12/2002

Instrument ID: I50Z-A Time Analyzed: 11:19

		IS1 (ANT) AREA	#	RT	#	IS2 (CRY) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	445746		15.75		774925		22.45		209677		8.73	
	UPPER LIMIT	891492		16.25		1549850		22.95		419354		9.23	
	LOWER LIMIT	222873		15.25		387463		21.95		104839		8.23	
	CLIENT SAMPLE												
1	BCS-02	376496		15.73		786719		22.43		188724		8.73	
2	Matrix Spike Blank	397616		15.73		609179		22.43		211269		8.73	
3	Matrix Spike Blk Dup	384343		15.75		592789		22.43		201674		8.73	
4	S BLANK	329993		15.73		568958		22.43		174559		8.73	

		AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (ANT) =	Acenaphthene-D10	(50-200)	-0.50 / +0.50 min
IS2 (CRY) =	Chrysene-D12	(50-200)	-0.50 / +0.50 min
IS3 (DCB) =	1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000064

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004559

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Z52925.RR Date Analyzed: 09/12/2002

Instrument ID: I50Z-A Time Analyzed: 11:19

		IS4 (NPT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	806155		11.65		751097		18.35		799112		25.17	
	UPPER LIMIT	1612310		12.15		1502194		18.85		1598224		25.67	
	LOWER LIMIT	403078		11.15		375549		17.85		399556		24.67	
	CLIENT SAMPLE												
1	BCS-02	662361		11.63		706852		18.35		899188		25.17	
2	Matrix Spike Blank	738179		11.63		636039		18.35		683169		25.17	
3	Matrix Spike Blk Dup	701677		11.65		655398		18.35		669866		25.17	
4	S BLANK	603107		11.63		546987		18.33		615490		25.17	

		AREA UNIT QC LIMITS	RT QC LIMITS
IS4 (NPT) =	Naphthalene-D8	(50-200)	-0.50 / +0.50 min
IS5 (PHN) =	Phenanthrene-D10	(50-200)	-0.50 / +0.50 min
IS6 (PRY) =	Perylene-D12	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2884602	BCS-02	09/06/2002	10:45	09/06/2002	16:20
A2884603	BM25A-01	09/06/2002	15:15	09/06/2002	16:20

METHODS SUMMARY

Job#: A02-8846

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8846

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

ample Receipt Comments

A02-8846
Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
LAF-01 was composited in SC into 1 1LGA.

BCS-02 was composited in SC into 1 1LGA.

Hold LAF-01 and BCS-02 at clients request.

GC/MS Volatile Data

As a result of low volume, sample BCS-02 was analyzed from a jar with headspace.

The analytes Acetone and Methylene Chloride were detected in the Method Blank (VBLK98) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For Method 8082 analysis, the continuing calibration verification for Aroclor 1016 analyzed just prior to the samples slightly exceeded the quality control limit of less than or equal to 15 percent difference. All other quality control criteria were met. There were no sample hits for Aroclor 1016; no corrective action was indicated.

For method 8151 surrogate Dichlorophenyl Acetic Acid was elevated above quality control limits for sample A2B0883301 (MSB). No corrective action was taken, all other quality control is compliant and all field samples were non-detect for all target analytes.

Metals Data

The recovery of Antimony fell below the QC limits in sample BCS-02 Matrix Spike and Matrix Spike Duplicate. The LCS was acceptable.

The recovery of sample BCS-02 Matrix Spike fell above the Quality Control Limits for Iron, Magnesium, and Manganese. The recovery of sample BCS-02 Matrix Spike Duplicate fell above the Quality Control Limits for Aluminum, Iron, Magnesium, and Manganese. The sample results were more than four times greater than the spike added, therefore, no qualifiers are needed. The LCS was acceptable for all elements.

The recovery of Lead fell above the QC limits in sample BM25A-01 Matrix Spike and Matrix Spike Duplicate. The sample results are more than four times greater than the spike added, therefore, no qualifiers are needed. The LCS was acceptable.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Mazur
Laboratory Director

9/28/02
Date

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (1200)

Client: Blasland, Bouck & Lee	Project Manager: Joe Molina	Date: 9/6/02	Chain of Custody Number: 099065
Address: 1400 Sweet Home Rd. Suite 1	Telephone Number (Area Code)/Fax Number: (716) 689-1544 / (716) 689-1568	Lab Number	Page 1 of 1
City: Buffalo; State: NY; Zip Code: 14228	Site Contact: B. Andrew Fraser	Lab Contact: CANDACE FOX	
Project Name and Location (State): Bern Metals, Buffalo, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 778.01.005			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	HNO3	TOTAL LEAD - 6010	TCL VOCs	TCL SVOCs	PCBs	PESTICIDES	HERBICIDES	TAL METALS	Special Instructions/ Conditions of Receipt
LAF-01	9/6/02	10:00				X	(4) X						(4) X		✓	✓	✓	✓	✓	✓	Composite of 4 jars
BCS-02	9/6/02	10:45				X	(4) X						(4) X		✓	✓	✓	✓	✓	✓	Composite of 4 jars
BM25A-01	9/6/02	15:15				X	(1) X						(1) X	✓							

- Hold samples LAF-01 & BCS-02 until instructed to begin analyses as indicated. Turnaround time will be conveyed then.
- Sample BM25A-01 will have 24 hr turnaround time for lead.

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: SEE INSTRUCTIONS ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Bruce G. Fraser	9/6/02	13:00	1. Received By: Douglas M. Ruszczyk	9/6/02	13:00
2. Relinquished By: Douglas M. Ruszczyk	9/6/02	1620	2. Received By: STL	9/06/02	16:20
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.
Task: Bern Metal/Universal Metal Site

Douglas Ruszczyk
1400 Sweet Home Road
Suite 1
Amherst, NY 14228

STL Buffalo

Candace L. Fox
Project Manager

Susan L. Mazur
Laboratory Director

09/10/2002

This report contains 1007 pages which are individually numbered.

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2871703	BM1 (1-4) COMPOSITE	09/03/2002	15:00	09/03/2002	17:10
A2871702	R.O.C.-02	09/03/2002	14:45	09/03/2002	17:10
A2871701	T.S.R.-01	09/03/2002	13:36	09/03/2002	17:10

METHODS SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8717

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Sample(s) from BB&L were received at a temperature of >10°C. However the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

Samples BM1 (1-4) were composited in sample control.

GC/MS Volatile Data

The analyte Toluene was detected in Method Blank VBLK91 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blank VBLK91 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

Initial calibration standard curve A2I0000908-1 exhibited the %RSD of four analytes as greater than 15%. However, the mean RSD of all compounds is 8.16%.

GC/MS Semivolatile Data

The analyte Di-n-butyl phthalate was detected in the Method Blank A2B0854603 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC Extractable Data

Sample T.S.R.-01 analyzed for Method 8081 required dilution prior to analysis due to sample matrix interferences. The recovery of surrogate Decachlorobiphenyl was outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For method 8081, a few analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

For method 8151, Picloram in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Metals Data

The recovery of sample T.S.R.-01 Matrix Spike fell above the Quality Control Limits for Lead and fell below the Quality Contol Limits for Antimony and Thallium. The recovery of sample T.S.R.-01 Matrix Spike Duplicate fell below the Quality Control Limits for Antimony, Potassium, and Thallium. The LFB was acceptable for all elements.

SEVERN TRENT SERVICES

000006

The recovery of Zinc fell above the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The recovery of Iron and Manganese fell below the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The sample results were more than four times greater than the spike added, therefore, no qualifiers were needed. The LFB was acceptable for all elements.

****

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"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

for Susan L. Mazur
Laboratory Director

9/11/02
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
BM1 (1-4) COMPOSI	A2871703	-	-	-	-	SW8463	-
R.O.C.-02	A2871702	SW8463	SW8463	-	SW8463	SW8463	-
T.S.R.-01	A2871701	SW8463	SW8463	-	SW8463	SW8463	-

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
R.O.C.-02	SOIL	09/03/2002	09/03/2002	-	09/04/2002
T.S.R.-01	SOIL	09/03/2002	09/03/2002	-	09/04/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
R.O.C.-02	SOIL	09/03/2002	09/03/2002	09/04/2002	09/05/2002
T.S.R.-01	SOIL	09/03/2002	09/03/2002	09/04/2002	09/05/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
R.O.C.-02	SOIL	09/03/2002	09/03/2002	09/04-05/2002	09/05-06/2002
T.S.R.-01	SOIL	09/03/2002	09/03/2002	09/04-05/2002	09/05-06/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
BM1 (1-4) COMPOSITE	SOIL	T PB	09/03/2002	09/04/2002	09/05/2002
R.O.C.-02	SOIL	HSL ME	09/03/2002	09/04/2002	09/04-06/2002
T.S.R.-01	SOIL	HSL ME	09/03/2002	09/04/2002	09/04-05/2002

NYSDEC-5

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
R.O.C.-02	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED
T.S.R.-01	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
BM1 (1-4) COMPOSITE	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
R.O.C.-02	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
T.S.R.-01	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED

Dilution Log w/Code Information
For Job A02-8717

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
T.S.R.-01	A2871701	8081	2.00	002
T.S.R.-01	A2871701	8270	5.00	010
R.O.C.-02	A2871702	Calcium - Total	20.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance

E Indicates a value estimated or not reported due to the presence of interferences

H Indicates analytical holding time exceedance The value obtained should be considered an estimate

* Indicates analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000016

Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 5.06 (g/mL) G Lab File ID: Q6080.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: not dec. 2.5 Heated Purge: Y Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	25	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	25	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	10	B
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000017

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 5.10 (g/mL) G Lab File ID: Q6079.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: not dec. 22.6 Heated Purge: Y Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	32	U
71-43-2	Benzene	6	U
75-27-4	Bromodichloromethane	6	U
75-25-2	Bromoform	6	U
74-83-9	Bromomethane	13	U
78-93-3	2-Butanone	32	U
75-15-0	Carbon Disulfide	6	U
56-23-5	Carbon Tetrachloride	6	U
108-90-7	Chlorobenzene	6	U
75-00-3	Chloroethane	13	U
67-66-3	Chloroform	6	U
74-87-3	Chloromethane	13	U
124-48-1	Dibromochloromethane	6	U
75-34-3	1,1-Dichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
75-35-4	1,1-Dichloroethene	6	U
540-59-0	1,2-Dichloroethene (Total)	13	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
100-41-4	Ethylbenzene	6	U
591-78-6	2-Hexanone	13	U
75-09-2	Methylene chloride	11	B
108-10-1	4-Methyl-2-pentanone	32	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
127-18-4	Tetrachloroethene	6	U
108-88-3	Toluene	6	U
71-55-6	1,1,1-Trichloroethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
79-01-6	Trichloroethene	6	U
108-05-4	Vinyl acetate	13	U
75-01-4	Vinyl chloride	13	U
1330-20-7	Total Xylenes	19	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000018

Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.08 (g/mL) G Lab File ID: W48756.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 5.7 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	350	U
208-96-8	Acenaphthylene	350	U
120-12-7	Anthracene	350	U
56-55-3	Benzo(a)anthracene	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
191-24-2	Benzo(ghi)perylene	350	U
50-32-8	Benzo(a)pyrene	350	U
65-85-0	Benzoic acid	1700	U
100-51-6	Benzyl alcohol	350	U
111-91-1	Bis(2-chloroethoxy) methane	350	U
111-44-4	Bis(2-chloroethyl) ether	350	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	350	U
117-81-7	Bis(2-ethylhexyl) phthalate	350	U
101-55-3	4-Bromophenyl phenyl ether	350	U
85-68-7	Butyl benzyl phthalate	350	U
106-47-8	4-Chloroaniline	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-58-7	2-Chloronaphthalene	350	U
95-57-8	2-Chlorophenol	350	U
7005-72-3	4-Chlorophenyl phenyl ether	350	U
218-01-9	Chrysene	24	J
53-70-3	Dibenzo(a,h)anthracene	350	U
132-64-9	Dibenzofuran	350	U
84-74-2	Di-n-butyl phthalate	22	BJ
95-50-1	1,2-Dichlorobenzene	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
91-94-1	3,3'-Dichlorobenzidine	700	U
120-83-2	2,4-Dichlorophenol	350	U
84-66-2	Diethyl phthalate	350	U
105-67-9	2,4-Dimethylphenol	350	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000019

Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.08 (g/mL) G Lab File ID: W48756.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 5.7 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	350	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
51-28-5	2,4-Dinitrophenol	1700	U
121-14-2	2,4-Dinitrotoluene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
117-84-0	Di-n-octyl phthalate	350	U
206-44-0	Fluoranthene	350	U
86-73-7	Fluorene	350	U
118-74-1	Hexachlorobenzene	350	U
87-68-3	Hexachlorobutadiene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
67-72-1	Hexachloroethane	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
78-59-1	Isophorone	350	U
91-57-6	2-Methylnaphthalene	350	U
95-48-7	2-Methylphenol	350	U
106-44-5	4-Methylphenol	350	U
91-20-3	Naphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
99-09-2	3-Nitroaniline	1700	U
100-01-6	4-Nitroaniline	1700	U
98-95-3	Nitrobenzene	350	U
88-75-5	2-Nitrophenol	350	U
100-02-7	4-Nitrophenol	1700	U
86-30-6	N-nitrosodiphenylamine	350	U
621-64-7	N-Nitroso-Di-n-propylamine	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	22	J
108-95-2	Phenol	350	U
129-00-0	Pyrene	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
95-95-4	2,4,5-Trichlorophenol	850	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000020
Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.08 (g/mL) G Lab File ID: W48756.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 5.7 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	350	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000021

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.32 (g/mL) G Lab File ID: W48755.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 19.3 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	2000	U
208-96-8	Acenaphthylene	2000	U
120-12-7	Anthracene	2000	U
56-55-3	Benzo(a)anthracene	230	J
205-99-2	Benzo(b)fluoranthene	290	J
207-08-9	Benzo(k)fluoranthene	2000	U
191-24-2	Benzo(ghi)perylene	2000	U
50-32-8	Benzo(a)pyrene	110	J
65-85-0	Benzoic acid	9800	U
100-51-6	Benzyl alcohol	2000	U
111-91-1	Bis(2-chloroethoxy) methane	2000	U
111-44-4	Bis(2-chloroethyl) ether	2000	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	2000	U
117-81-7	Bis(2-ethylhexyl) phthalate	2000	U
101-55-3	4-Bromophenyl phenyl ether	2000	U
85-68-7	Butyl benzyl phthalate	2000	U
106-47-8	4-Chloroaniline	2000	U
59-50-7	4-Chloro-3-methylphenol	2000	U
91-58-7	2-Chloronaphthalene	2000	U
95-57-8	2-Chlorophenol	2000	U
7005-72-3	4-Chlorophenyl phenyl ether	2000	U
218-01-9	Chrysene	220	J
53-70-3	Dibenzo(a,h)anthracene	2000	U
132-64-9	Dibenzofuran	2000	U
84-74-2	Di-n-butyl phthalate	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
120-83-2	2,4-Dichlorophenol	2000	U
84-66-2	Diethyl phthalate	2000	U
105-67-9	2,4-Dimethylphenol	2000	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000022

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.32 (g/mL) G Lab File ID: W48755.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 19.3 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	2000	U
534-52-1	4,6-Dinitro-2-methylphenol	9800	U
51-28-5	2,4-Dinitrophenol	9800	U
121-14-2	2,4-Dinitrotoluene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
117-84-0	Di-n-octyl phthalate	2000	U
206-44-0	Fluoranthene	550	J
86-73-7	Fluorene	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-68-3	Hexachlorobutadiene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
67-72-1	Hexachloroethane	2000	U
193-39-5	Indeno(1,2,3-cd)pyrene	2000	U
78-59-1	Isophorone	2000	U
91-57-6	2-Methylnaphthalene	2000	U
95-48-7	2-Methylphenol	2000	U
106-44-5	4-Methylphenol	2000	U
91-20-3	Naphthalene	2000	U
88-74-4	2-Nitroaniline	9800	U
99-09-2	3-Nitroaniline	9800	U
100-01-6	4-Nitroaniline	9800	U
98-95-3	Nitrobenzene	2000	U
88-75-5	2-Nitrophenol	2000	U
100-02-7	4-Nitrophenol	9800	U
86-30-6	N-nitrosodiphenylamine	2000	U
621-64-7	N-Nitroso-Di-n-propylamine	2000	U
87-86-5	Pentachlorophenol	9800	U
85-01-8	Phenanthrene	550	J
108-95-2	Phenol	2000	U
129-00-0	Pyrene	510	J
120-82-1	1,2,4-Trichlorobenzene	2000	U
95-95-4	2,4,5-Trichlorophenol	4900	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000023

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.32 (g/mL) G Lab File ID: W48755.RR

Level: (low/med) LOW Date Samp/Recv: 09/03/2002 09/03/2002

% Moisture: 19.3 decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 5.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	2000	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000024
Client No.

T.S.R.-01

Lab e: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.33 (g/mL) G Lab File ID: NA10366.TX0

% Moisture: 19.3 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/05/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	21	U
11104-28-2	Aroclor 1221	21	U
11141-16-5	Aroclor 1232	21	U
53469-21-9	Aroclor 1242	21	U
12672-29-6	Aroclor 1248	21	U
11097-69-1	Aroclor 1254	21	U
11096-82-5	Aroclor 1260	21	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000025
Client No.

R.O.C.-02

Lab e: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.83 (g/mL) G Lab File ID: NA10367.TX0

% Moisture: 5.7 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/05/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	18	U
11104-28-2	Aroclor 1221	18	U
11141-16-5	Aroclor 1232	18	U
53469-21-9	Aroclor 1242	18	U
572-29-6	Aroclor 1248	18	U
097-69-1	Aroclor 1254	18	U
11096-82-5	Aroclor 1260	18	U

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BM1 (1-4) COMPOSITE

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8717

Matrix (soil/water): SOIL Lab Sample ID: AD224858

Level (low/med): LOW Date Received: 9/3/02

% Solids: 80

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	517		N	P

Color Before: BLACK Clarity Before: N/A Texture: SILT

Color After: GRAY Clarity After: CLDY/FI Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

R.O.C.-02

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8717

Matrix (soil/water): SOIL Lab Sample ID: AD224857

Level (low/med): LOW Date Received: 9/3/02

% Solids: 94

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1600		E	P
7440-36-0	Antimony	10.6	U	N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	7.9		E	P
7440-41-7	Beryllium	0.53	U		P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	184000			P
7440-47-3	Chromium	5.8			P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	6.0			P
7439-89-6	Iron	3170		E	P
7439-92-1	Lead	5.3	U	N	P
7439-95-4	Magnesium	4460		E	P
7439-96-5	Manganese	77.1		E	P
7440-02-0	Nickel	8.1			P
7440-09-7	Potassium	659		N	P
7782-49-2	Selenium	3.2	U		P
7439-97-6	Mercury	0.022	U		CV
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	170			P
7440-28-0	Thallium	6.4	U	N	P
7440-62-2	Vanadium	4.7			P
7440-66-6	Zinc	10.1		E	P

Color Before: GRAY Clarity Before: N/A Texture: CONGLOM

Color After: GRAY Clarity After: CLDY/FI Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

T.S.R.-01

Contract: NY02-222

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: A02-8717

Matrix (soil/water): SOIL Lab Sample ID: AD224854

Level (low/med): LOW Date Received: 9/3/02

% Solids: 81

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12200		E	P
7440-36-0	Antimony	12.4	U	N	P
7440-38-2	Arsenic	7.5			P
7440-39-3	Barium	119		E	P
7440-41-7	Beryllium	0.77			P
7440-43-9	Cadmium	0.87			P
7440-70-2	Calcium	6040			P
7440-47-3	Chromium	18.1			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	37.4			P
7439-89-6	Iron	24100		E	P
7439-92-1	Lead	68.5		N	P
7439-95-4	Magnesium	2380		E	P
7439-96-5	Manganese	525		E	P
7440-02-0	Nickel	20.1			P
7440-09-7	Potassium	1140		N	P
7782-49-2	Selenium	3.7	U		P
7439-97-6	Mercury	0.168			CV
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	124	U		P
7440-28-0	Thallium	7.4	U	N	P
7440-62-2	Vanadium	24.5			P
7440-66-6	Zinc	180		E	P

Color Before: BLACK Clarity Before: N/A Texture: SILT

Color After: GRAY Clarity After: CLDY/FI Artifacts:

Comments:

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#							TOT OUT
1	MSB91	88		82		99								0
2	R.O.C.-02	92		88		107								0
3	T.S.R.-01	91		90		102								0
4	VBLK91	92		86		104								0

			QC LIMITS
BFB	=	p-Bromofluorobenzene	(67-118)
DCE	=	1,2-Dichloroethane-D4	(63-133)
TOL	=	Toluene-D8	(78-118)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

000030

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	2FP %REC	#	FBP %REC	#	NBZ %REC	#	PHL %REC	#	TBP %REC	#	TPH %REC	#			TOT OUT
1	Matrix Spike Blank	96		91		84		93		83		114				0
2	Matrix Spike Blk Dup	103		103		97		96		87		129				0
3	Method Blank	98		82		77		94		68		104				0
4	R.O.C.-02	86		82		76		83		72		115				0
5	T.S.R.-01	62		72		52		59		40		91				0

			QC LIMITS
2FP	=	2-Fluorophenol	(25-121)
FBP	=	2-Fluorobiphenyl	(27-128)
NBZ	=	Nitrobenzene-D5	(21-120)
PHL	=	Phenol-D5	(18-139)
TBP	=	2,4,6-Tribromophenol	(34-147)
TPH	=	p-Terphenyl-d14	(41-139)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): ZB-35 ID: 0.53 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	84		86								0
2	Matrix Spike Blk Dup	86		84								0
3	Method Blank	80		80								0
4	R.O.C.-02	84		82								0
5	T.S.R.-01	94		85								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-148)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

000032

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2871704

L Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK01~~ MSB91 mTm 9/14/2002 Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	59.5	119	61 - 146
Trichloroethene	50.0	54.4	109	69 - 128
Benzene	50.0	55.3	111	71 - 128
Toluene	50.0	55.7	107	69 - 129
Chlorobenzene	50.0	52.1	104	72 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000033

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0854603

Lab [illegible]e: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
Phenol	3310	3172	96	34 - 120
2-Chlorophenol	3310	2987	90	32 - 120
1,4-Dichlorobenzene	3310	2231	67	25 - 120
N-Nitroso-Di-n-propyl(1)	3310	2811	85	33 - 121
1,2,4-Trichlorobenzene	3310	2385	72	32 - 120
4-Chloro-3-methylphenol	3310	3363	102	43 - 123
Acenaphthene	3310	2791	84	43 - 122
4-Nitrophenol	3310	2972	90	29 - 128
2,4-Dinitrotoluene	3310	3161	96	43 - 128
Pentachlorophenol	3310	2632	80	28 - 138
Pyrene	3310	3555	107	47 - 144

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phe[illegible]l	3327	3317	100	4	34	34 - 120
2-([illegible]rophenol	3327	3212	96	6	33	32 - 120
1,4-Dichlorobenzene	3327	2565	77	14	28	25 - 120
N-Nitroso-Di-n-propylami	3327	3019	91	7	25	33 - 121
1,2,4-Trichlorobenzene	3327	2743	82	13	30	32 - 120
4-Chloro-3-methylphenol	3327	3636	109	7	24	43 - 123
Acenaphthene	3327	3160	95	12	25	43 - 122
4-Nitrophenol	3327	3331	100	10	38	29 - 128
2,4-Dinitrotoluene	3327	3465	104	8	26	43 - 128
Pentachlorophenol	3327	2923	88	10	32	28 - 138
Pyrene	3327	4007	120	11	25	47 - 144

(1) N-Nitroso-Di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike recovery: 0 out of 22 outside limits

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000034

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0856103

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aroclor 1254	162	147	90	52 - 153	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aroclor 1254	164	144	88	2	30	52 - 153	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike recovery: 0 out of 2 outside limits

Comments: _____

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

T.S.R.-01 MS

Contract: NY02-222

Lab Code: STLBFLO Case No.: Sas No.: SDG NO.: A02-8717

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 80.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		13181.7598		12226.4404		1263.82	75.6		P
Antimony	75 - 125	12.6382	U	12.6382	U	25.28	19.0	N	P
Arsenic	75 - 125	27.5437		7.5006		25.28	79.3		P
Barium		146.8799		118.6141		25.28	111.8		P
Beryllium	75 - 125	20.8290		0.7704		25.28	79.4		P
Cadmium	75 - 125	20.8973		0.8657		25.28	79.3		P
Calcium		7837.2529		6041.7349		1263.82	142.1		P
Chromium	75 - 125	39.4059		18.1335		25.28	84.2		P
Cobalt	75 - 125	26.4277		6.6844		25.28	78.1		P
Copper	75 - 125	59.9733		37.4003		25.28	89.3		P
Iron		23102.7500		24128.6699		50.55	-2029.4		P
Lead	75 - 125	186.2529		68.5274		25.28	465.8	N	P
Magnesium	75 - 125	3587.9109		2376.1689		1263.82	95.9		P
Manganese		291.4596		524.5182		25.28	-922.0		P
Nickel	75 - 125	39.9948		20.0694		25.28	78.8		P
Potassium	75 - 125	2091.0459		1135.7190		1263.82	75.6		P
Selenium	75 - 125	20.7810		3.7915	U	25.28	82.2		P
Silver	75 - 125	5.4648		1.2638	U	6.32	86.5		P
Sodium	75 - 125	1137.5551		126.3820	U	1263.82	90.0		P
Thallium	75 - 125	17.4154		7.5829	U	25.28	68.9	N	P
Vanadium	75 - 125	44.2640		24.4934		25.28	78.2		P
Zinc		237.6790		179.5368		25.28	230.0		P

Comments:

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

T.S.R.-01 SD

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 80.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		13380.0000		12226.4404		1214.26	95.0		P
Antimony	75 - 125	12.1426	U	12.1426	U	24.29	23.4	N	P
Arsenic	75 - 125	27.3633		7.5006		24.29	81.8		P
Barium		145.8579		118.6141		24.29	112.2		P
Beryllium	75 - 125	20.1397		0.7704		24.29	79.8		P
Cadmium	75 - 125	20.2271		0.8657		24.29	79.7		P
Calcium		7283.5640		6041.7349		1214.26	102.3		P
Chromium	75 - 125	38.9048		18.1335		24.29	85.5		P
Cobalt	75 - 125	26.1721		6.6844		24.29	80.2		P
Copper	75 - 125	58.6669		37.4003		24.29	87.6		P
Iron		24065.5801		24128.6699		48.57	-129.9		P
Lead		95.7188		68.5274		24.29	112.0		P
Magnesium	75 - 125	3578.5171		2376.1689		1214.26	99.0		P
Manganese		349.4562		524.5182		24.29	-720.9		P
Nickel	75 - 125	40.6024		20.0694		24.29	84.5		P
Potassium	75 - 125	2019.1630		1135.7190		1214.26	72.8	N	P
Selenium	75 - 125	19.8337		3.6428	U	24.29	81.7		P
Silver	75 - 125	5.2298		1.2143	U	6.07	86.1		P
Sodium	75 - 125	1079.0250		121.4258	U	1214.26	88.9		P
Thallium	75 - 125	16.2286		7.2856	U	24.29	66.8	N	P
Vanadium	75 - 125	43.7619		24.4934		24.29	79.3		P
Zinc		235.2018		179.5368		24.29	229.2		P

Comments: _____

BLASLAND BOUCK & LEE, INC.
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

T.S.R.-01A

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Aluminum		105808.10		98716.30		10000.0	70.9		P
Antimony		175.93		100.00	U	200.0	88.0		P
Arsenic		225.01		60.56		200.0	82.2		P
Barium		1117.33		957.69		200.0	79.8		P
Beryllium		169.54		6.22		200.0	81.7		P
Cadmium		169.72		6.99		200.0	81.4		P
Calcium		55797.05		48780.97		10000.0	70.2		P
Chromium		308.74		146.41		200.0	81.2		P
Cobalt		220.34		53.97		200.0	83.2		P
Copper		472.61		301.97		200.0	85.3		P
Iron		191280.59		194814.80		400.0	-883.6		P
Lead		703.73		553.29		200.0	75.2		P
Magnesium		27112.89		19185.19		10000.0	79.3		P
Manganese		4328.12		4234.96		200.0	46.6		P
Nickel		324.69		162.04		200.0	81.3		P
Potassium		17670.53		9169.79		10000.0	85.0		P
Selenium		166.99		30.00	U	200.0	83.5		P
Silver		44.63		10.00	U	50.0	89.3		P
Sodium		9317.21		1000.00	U	10000.0	93.2		P
Thallium		136.91		60.00	U	200.0	68.5		P
Vanadium		361.75		197.76		200.0	82.0		P
Zinc		1575.10		1449.58		200.0	62.8		P

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
METHOD BLANK SUMMARY

000038

Client No

VBLK91

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Q6077.RR Lab Sample ID: A2871704

Date Analyzed: 09/04/2002 Time Analyzed: 10:21

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB91	A2871705	Q6076.RR	09:52
2	R.O.C.-02	A2871702	Q6080.RR	11:54
3	T.S.R.-01	A2871701	Q6079.RR	11:26

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000039

Client No.

VBLK91

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871704

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q6077.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	25	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	25	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	5	
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	2	J
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
METHOD BLANK SUMMARY

000040
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: W48754.RR Lab Sample ID: A2B0854603

Instrument ID: I50W-A Date Extracted: 09/04/2002

Matrix: (soil/water) SOIL Date Analyzed: 09/05/2002

Level: (low/med) LOW Time Analyzed: 15:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	Matrix Spike Blank	A2B0854601	W48752.RR	09/05/2002
2	Matrix Spike Blk Dup	A2B0854602	W48753.RR	09/05/2002
3	R.O.C.-02	A2871702	W48756.RR	09/05/2002
4	T.S.R.-01	A2871701	W48755.RR	09/05/2002

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000041

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854603

Sample wt/vol: 30.11 (g/mL) G Lab File ID: W48754.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
65-85-0	Benzoic acid	1600	U
100-51-6	Benzyl alcohol	330	U
111-91-1	Bis(2-chloroethoxy) methane	330	U
111-44-4	Bis(2-chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	Bis(2-ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
84-74-2	Di-n-butyl phthalate	18	J
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
105-67-9	2,4-Dimethylphenol	330	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

Method Blank

Lab e: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854603

Sample wt/vol: 30.11 (g/mL) G Lab File ID: W48754.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octyl phthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
86-30-6	N-nitrosodiphenylamine	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	800	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000043

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854603

Sample wt/vol: 30.11 (g/mL) G Lab File ID: W48754.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/04/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	330	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
METHOD BLANK SUMMARY

000044
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0856103 Lab File ID: NA10361.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 09/05/2002

Date Analyzed (1): 09/05/2002 Date Analyzed (2): _____

Time Analyzed (1): 20:41 Time Analyzed (2): _____

Instrument ID (1): HP5890-14 Instrument ID (2): _____

GC Column (1): ZB-35 Dia: 0.53 (mm) GC Column (2): _____ Dia: ____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0856101	09/05/2002	
2	Matrix Spike Blk Dup	A2B0856102	09/05/2002	
3	R.O.C.-02	A2871702	09/05/2002	
4	T.S.R.-01	A2871701	09/05/2002	

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000045

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0856103

Sample wt/vol: 30.01 (g/mL) G Lab File ID: NA10361.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/05/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	17	U
11104-28-2	Aroclor 1221	17	U
11141-16-5	Aroclor 1232	17	U
53469-21-9	Aroclor 1242	17	U
[illegible]672-29-6	Aroclor 1248	17	U
[illegible]97-69-1	Aroclor 1254	17	U
11096-82-5	Aroclor 1260	17	U

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Antimony	100.0	U	100.0	U	100.0	U	100.0	U	10.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Chromium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Cobalt	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Copper	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
[illegible]on	150.0	U	150.0	U	150.0	U	150.0	U	15.000	U	P
Lead	50.0	U	50.0	U	50.0	U	50.0	U	5.000	U	P
Magnesium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Potassium	2000.0	U	2000.0	U	2000.0	U	2000.0	U	200.000	U	P
Selenium	30.0	U	30.0	U	30.0	U	30.0	U	3.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Sodium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Thallium	60.0	U	60.0	U	60.0	U	60.0	U	6.000	U	P
Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	200.0	U			P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			10.0	U	10.0	U	10.0	U			P

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U							P
Antimony			100.0	U							P
Arsenic			10.0	U							P
Barium			10.0	U							P
Beryllium			5.0	U							P
Cadmium			5.0	U							P
Calcium			1000.0	U							P
Chromium			20.0	U							P
Cobalt			20.0	U							P
Copper			20.0	U							P
Iron			150.0	U							P
Lead			50.0	U							P
Magnesium			200.0	U							P
Manganese			10.0	U							P
Nickel			20.0	U							P
Potassium			2000.0	U							P
Selenium			30.0	U							P
Silver			10.0	U							P
Sodium			1000.0	U							P
Thallium			60.0	U							P
Vanadium			10.0	U							P
Zinc			10.0	U							P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U			P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.0	U	1000.0	U	1000.0	U			P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.0	U	1000.0	U	1000.0	U			P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Calcium			1000.0	U								P

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.020	U	CV

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.2	U	0.2	U	0.2	U			CV

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-8717

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.2	U							CV

METHOD 8260 - TCL VOLATILE ORGANICS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004365

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Q6075.RR Date Analyzed: 09/04/2002

Instrument ID: HP5973Q Time Analyzed: 09:09

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA #	RT #	IS2 (DCB) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	284238	6.77	186018	9.19	587576	4.23
	UPPER LIMIT	568476	7.27	372036	9.69	1175152	4.73
	LOWER LIMIT	142119	6.27	93009	8.69	293788	3.73
	CLIENT SAMPLE						
1	MSB91	265186	6.76	171360	9.19	539939	4.21
2	R.O.C.-02	223082	6.76	140829	9.19	466647	4.22
3	T.S.R.-01	220500	6.76	145591	9.19	444164	4.22
4	VBLK91	236974	6.76	159310	9.19	495271	4.22

		AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) =	Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) =	1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) =	1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000056

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004430

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): W48746.RR Date Analyzed: 09/05/2002

Instrument ID: I50W-A Time Analyzed: 09:43

		IS1 (ANT) AREA	#	RT	#	IS2 (CRY) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	625482		16.33		1015961		27.14		263324		8.61	
	UPPER LIMIT	1250964		16.83		2031922		27.64		526648		9.11	
	LOWER LIMIT	312741		15.83		507981		26.64		131662		8.11	
	CLIENT SAMPLE												
1	Matrix Spike Blank	519762		16.33		745512		27.13		214959		8.62	
2	Matrix Spike Blk Dup	541706		16.33		769703		27.13		241474		8.61	
3	Method Blank	451423		16.33		644741		27.13		199972		8.62	
4	R.O.C.-02	685317		16.33		1267515		27.12		285568		8.62	
5	T.S.R.-01	599056		16.33		839653		27.13		249302		8.62	

		AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (ANT)	= Acenaphthene-D10	(50-200)	-0.50 / +0.50 min
IS2 (CRY)	= Chrysene-D12	(50-200)	-0.50 / +0.50 min
IS3 (DCB)	= 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000057

Lab Name: STL Buffalo Contract: _____ Labsampid: A2C0004430

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): W48746.RR Date Analyzed: 09/05/2002

Instrument ID: I50W-A Time Analyzed: 09:43

		IS4 (NPT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	1105303		11.75		1009759		20.15		950286		30.63	
	UPPER LIMIT	2210606		12.25		2019518		20.65		1900572		31.13	
	LOWER LIMIT	552652		11.25		504880		19.65		475143		30.13	
	CLIENT SAMPLE												
1	Matrix Spike Blank	895566		11.75		921098		20.15		721740		30.64	
2	Matrix Spike Blk Dup	943232		11.75		950476		20.16		740576		30.64	
3	Method Blank	826392		11.76		750970		20.16		695765		30.64	
4	R.O.C.-02	1146926		11.75		1309990		20.15		1169017		30.63	
5	T.S.R.-01	1017980		11.76		992857		20.16		827539		30.62	

		AREA UNIT QC LIMITS	RT QC LIMITS
. (NPT) =	Naphthalene-D8	(50-200)	-0.50 / +0.50 min
IS5 (PHN) =	Phenanthrene-D10	(50-200)	-0.50 / +0.50 min
IS6 (PRY) =	Perylene-D12	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2871703	BM1 (1-4) COMPOSITE	09/03/2002	15:00	09/03/2002	17:10
A2871702	R.O.C.-02	09/03/2002	14:45	09/03/2002	17:10
A2871701	T.S.R.-01	09/03/2002	13:36	09/03/2002	17:10

METHODS SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8717

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Sample(s) from BB&L were received at a temperature of >10°C. However the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

Samples BM1 (1-4) were composited in sample control.

GC/MS Volatile Data

The analyte Toluene was detected in Method Blank VBLK91 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blank VBLK91 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

Initial calibration standard curve A2I0000908-1 exhibited the %RSD of four analytes as greater than 15%. However, the mean RSD of all compounds is 8.16%.

GC/MS Semivolatile Data

The analyte Di-n-butyl phthalate was detected in the Method Blank A2B0854603 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC Extractable Data

Sample T.S.R.-01 analyzed for Method 8081 required dilution prior to analysis due to sample matrix interferences. The recovery of surrogate Decachlorobiphenyl was outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For method 8081, a few analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

For method 8151, Picloram in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Metals Data

The recovery of sample T.S.R.-01 Matrix Spike fell above the Quality Control Limits for Lead and fell below the Quality Contol Limits for Antimony and Thallium. The recovery of sample T.S.R.-01 Matrix Spike Duplicate fell below the Quality Control Limits for Antimony, Potassium, and Thallium. The LFB was acceptable for all elements.

SEVERN TRENT SERVICES

The recovery of Zinc fell above the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The recovery of Iron and Manganese fell below the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The sample results were more than four times greater than the spike added, therefore, no qualifiers were needed. The LFB was acceptable for all elements.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

for Susan L. Mazur
Laboratory Director

9/11/02
Date

SEVERN TRENT STL

ANALYTICAL REPORT
Revised

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.
Task: Bern Metal/Universal Metal Site

Douglas Ruszczyk
1400 Sweet Home Road
Suite 1
Amherst, NY 14228

STL Buffalo

for Candace L. Fox
Project Manager

Susan L. Mazur
Laboratory Director

11/21/2002

This report contains _____ pages which are individually numbered.

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • *www.stl-inc.com*

NON-CONFORMANCE SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8717

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Sample(s) from BB&L were received at a temperature of >10°C. However the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

Samples BM1 (1-4) were composited in sample control.

GC/MS Volatile Data

The analyte Toluene was detected in Method Blank VBLK91 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blank VBLK91 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

Initial calibration standard curve A2I0000908-1 exhibited the %RSD of four analytes as greater than 15%. However, the mean RSD of all compounds is 8.16%.

GC/MS Semivolatile Data

The analyte Di-n-butyl phthalate was detected in the Method Blank A2B0854603 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC Extractable Data

Sample T.S.R.-01 analyzed for Method 8081 required dilution prior to analysis due to sample matrix interferences. The recovery of surrogate Decachlorobiphenyl was outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For method 8081, a few analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

For method 8151, Picloram in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Metals Data

The recovery of sample T.S.R.-01 Matrix Spike fell above the Quality Control Limits for Lead and fell below the Quality Contol Limits for Antimony and Thallium. The recovery of sample T.S.R.-01 Matrix Spike Duplicate fell below the Quality Control Limits for Antimony, Potassium, and Thallium. The LFB was acceptable for all elements.

The recovery of Zinc fell above the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The recovery of Iron and Manganese fell below the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The sample results were more than four times greater than the spike added, therefore, no qualifiers were needed. The LFB was acceptable for all elements.

Revision Comments

This report has been revised to include the pesticide and herbicide data in Appendix A. Insertion pages have been numbered for inclusion in the original report.

SEVERN TRENT STL

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

_____

Susan L. Mazur
Laboratory Director

_____

Date

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000023A

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.03 (g/mL) G Lab File ID: RA20046.TX0

% Moisture: 19.3 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.1	U
319-84-6	alpha-BHC	4.1	U
319-85-7	beta-BHC	4.1	U
58-89-9	gamma-BHC (Lindane)	4.1	U
319-86-8	delta-BHC	4.1	U
57-74-9	Chlordane	41	U
72-54-8	4,4'-DDD	27	
72-55-9	4,4'-DDE	6.2	
50-29-3	4,4'-DDT	5.9	
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	4.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
76-44-8	Heptachlor	4.1	U
1024-57-3	Heptachlor epoxide	4.1	U
72-43-5	Methoxychlor	4.1	U
8001-35-2	Toxaphene	82	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

0000238

Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.26 (g/mL) G Lab File ID: RA20047.TX0

% Moisture: 5.7 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
319-86-8	delta-BHC	1.8	U
57-74-9	Chlordane	18	U
72-54-8	4,4'-DDD	1.8	U
72-55-9	4,4'-DDE	1.8	U
50-29-3	4,4'-DDT	1.8	U
60-57-1	Dieldrin	1.8	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	1.8	U
1031-07-8	Endosulfan Sulfate	1.8	U
72-20-8	Endrin	1.8	U
7421-93-4	Endrin aldehyde	1.8	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
72-43-5	Methoxychlor	1.8	U
8001-35-2	Toxaphene	35	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000025A

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.23 (g/mL) G Lab File ID: MA67257.TX0

% Moisture: 19.3 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	21	U
93-72-1	2,4,5-TP (Silvex)	21	U
93-76-5	2,4,5-T	21	U
1918-00-9	Dicamba	21	U
88-85-7	Dinoseb	21	U
-99-0	Dalapon	21	U
120-36-5	Dichloroprop	21	U
87-86-5	Pentachlorophenol	21	U
1918-02-1	Picloram	21	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000025B

Client No.

R.O.C.-02

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.19 (g/mL) G Lab File ID: MA67258.TX0

% Moisture: 5.7 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	18	U
93-72-1	2,4,5-TP (Silvex)	18	U
93-76-5	2,4,5-T	18	U
1918-00-9	Dicamba	18	U
88-85-7	Dinoseb	18	U
-99-0	Dalapon	18	U
120-36-5	Dichloroprop	18	U
87-86-5	Pentachlorophenol	18	U
1918-02-1	Picloram	18	U

METHOD 8081 - TCL PESTICIDES
SOIL SURROGATE RECOVERY

000030A

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): RTXCLPI ID: 0.32 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	114		94								0
2	Matrix Spike Blk Dup	123		96								0
3	Method Blank	114		94								0
4	R.O.C.-02	128		93								0
5	T.S.R.-01	239	*	71								1

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
Surrogates diluted out

METHOD 8151 - HERBICIDES FULL LIST
SOIL SURROGATE RECOVERY

000031 A

Lab Name: STL Buffalo Contract: _____

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): DB-XLB ID: 0.25 (um)

Level (low/med): LOW

	Client Sample ID	DCAA %REC #								TOT OUT
1	Matrix Spike Blank	100								0
2	Matrix Spike Blk Dup	88								0
3	Method Blank	72								0
4	R.O.C.-02	95								0
5	T.S.R.-01	22								0

QC LIMITS

(DCAA) = Dichlorophenyl Acetic Acid (17-133)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000033A

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0854403

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aldrin	33.0	29.6	90	48 - 128	
alpha-BHC	33.0	29.7	90	47 - 123	
beta-BHC	33.0	31.2	94	56 - 129	
delta-BHC	33.0	26.1	79	42 - 127	
gamma-BHC (Lindane)	33.0	29.3	89	42 - 136	
4,4'-DDD	33.0	29.9	91	42 - 133	
4,4'-DDE	33.0	30.5	92	44 - 136	
4,4'-DDT	33.0	26.8	81	49 - 148	
Dieldrin	33.0	30.3	92	51 - 132	
Endosulfan I	33.0	31.1	94	42 - 132	
Endosulfan II	33.0	31.2	94	44 - 135	
Endosulfan Sulfate	33.0	28.0	85	42 - 136	
Endrin aldehyde	33.0	33.0	100	37 - 123	
Endrin	33.0	30.0	91	41 - 132	
Heptachlor	33.0	28.8	87	43 - 127	
Heptachlor epoxide	33.0	30.7	93	45 - 128	
Methoxychlor	33.0	24.4	74	42 - 140	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	33.2	30.7	92	2	30	48 - 128	
alpha-BHC	33.2	30.7	92	2	30	47 - 123	
beta-BHC	33.2	32.3	97	3	30	56 - 129	
delta-BHC	33.2	27.1	82	4	30	42 - 127	
gamma-BHC (Lindane)	33.2	30.5	92	3	30	42 - 136	
4,4'-DDD	33.2	31.1	94	3	30	42 - 133	
4,4'-DDE	33.2	32.3	97	5	30	44 - 136	
4,4'-DDT	33.2	29.3	88	8	30	49 - 148	
Dieldrin	33.2	31.6	95	3	30	51 - 132	
Endosulfan I	33.2	32.6	98	4	30	42 - 132	
Endosulfan II	33.2	32.2	97	3	30	44 - 135	
Endosulfan Sulfate	33.2	29.5	89	4	30	42 - 136	
Endrin aldehyde	33.2	34.8	105	5	30	37 - 123	
Endrin	33.2	31.1	94	3	30	41 - 132	
Heptachlor	33.2	29.7	90	3	30	43 - 127	
Heptachlor epoxide	33.2	31.6	95	2	30	45 - 128	
Methoxychlor	33.2	26.2	79	6	30	42 - 140	

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0854403

La' ode: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.	+

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike recovery: 0 out of 34 outside limits

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000034A

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0854503

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
2,4-D	65.0	56.7	87	13 - 132	
Dalapon	65.0	34.6	53	16 - 122	
Dinoseb	65.0	40.3	62	10 - 120	
Pentachlorophenol	65.0	40.5	62	10 - 120	
Picloram	65.0	28.2	43	10 - 120	
2,4,5-TP (Silvex)	65.0	50.2	77	28 - 114	
2,4,5-T	65.0	55.3	85	40 - 110	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
2,4-D	66.6	61.1	92	6	30	13 - 132	
Dalapon	66.6	30.0	45	16	30	16 - 122	
Dinoseb	66.6	38.6	58	7	30	10 - 120	
Pentachlorophenol	66.6	37.4	56	10	30	10 - 120	
Picloram	66.6	29.1	44	2	30	10 - 120	
2,4,5-TP (Silvex)	66.6	54.3	82	6	30	28 - 114	
2,4,5-T	66.6	62.1	93	9	30	40 - 110	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits
Spike recovery: 0 out of 14 outside limits

Comments: _____

000043A

Client No.

METHOD 8081 - TCL PESTICIDES
METHOD BLANK SUMMARY

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0854403 Lab File ID: RA20050.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 09/04/2002

Date Analyzed (1): 09/06/2002 Date Analyzed (2): _____

Time Analyzed (1): 19:51 Time Analyzed (2): _____

Instrument ID (1): HP5890-18 Instrument ID (2): _____

GC Column (1): RTXCLPI Dia: 0.32(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0854401	09/06/2002	
2	Matrix Spike Blk Dup	A2B0854402	09/06/2002	
3	R.O.C.-02	A2871702	09/06/2002	
4	T.S.R.-01	A2871701	09/06/2002	

Comments: _____

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854403

Sample wt/vol: 30.51 (g/mL) G Lab File ID: RA20050.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.6	U
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
19-86-8	delta-BHC	1.6	U
7-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	1.6	U
72-55-9	4,4'-DDE	1.6	U
50-29-3	4,4'-DDT	1.6	U
60-57-1	Dieldrin	1.6	U
959-98-8	Endosulfan I	1.6	U
33213-65-9	Endosulfan II	1.6	U
1031-07-8	Endosulfan Sulfate	1.6	U
72-20-8	Endrin	1.6	U
7421-93-4	Endrin aldehyde	1.6	U
76-44-8	Heptachlor	1.6	U
1024-57-3	Heptachlor epoxide	1.6	U
72-43-5	Methoxychlor	1.6	U
8001-35-2	Toxaphene	32	U

METHOD 8151 - HERBICIDES FULL LIST
METHOD BLANK SUMMARY

000045A
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0854503 Lab File ID: MA67261.TX0

Matrix: (soil/water) SOIL Extraction: SEPF

Sulfur Cleanup: (Y/N): N Date Extracted: 09/06/2002

Date Analyzed (1): 09/07/2002 Date Analyzed (2): _____

Time Analyzed (1): 02:29 Time Analyzed (2): _____

Instrument ID (1): HP5890-13 Instrument ID (2): _____

GC Column (1): DB-XLB Dia: 0.25(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0854501	09/07/2002	
2	Matrix Spike Blk Dup	A2B0854502	09/07/2002	
3	R.O.C.-02	A2871702	09/06/2002	
4	T.S.R.-01	A2871701	09/06/2002	

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

0000453

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854503

Sample wt/vol: 30.29 (g/mL) G Lab File ID: MA67261.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	17	U
93-72-1	2,4,5-TP (Silvex)	17	U
93-76-5	2,4,5-T	17	U
1918-00-9	Dicamba	17	U
88-85-7	Dinoseb	17	U
-99-0	Dalapon	17	U
20-36-5	Dichloroprop	17	U
87-86-5	Pentachlorophenol	17	U
1918-02-1	Picloram	17	U

NON-CONFORMANCE SUMMARY

Job#: A02-8717

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8717

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Sample(s) from BB&L were received at a temperature of >10°C. However the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

Samples BM1 (1-4) were composited in sample control.

GC/MS Volatile Data

The analyte Toluene was detected in Method Blank VBLK91 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blank VBLK91 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

Initial calibration standard curve A2I0000908-1 exhibited the %RSD of four analytes as greater than 15%. However, the mean RSD of all compounds is 8.16%.

GC/MS Semivolatile Data

The analyte Di-n-butyl phthalate was detected in the Method Blank A2B0854603 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC Extractable Data

Sample T.S.R.-01 analyzed for Method 8081 required dilution prior to analysis due to sample matrix interferences. The recovery of surrogate Decachlorobiphenyl was outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For method 8081, a few analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

For method 8151, Picloram in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

Metals Data

The recovery of sample T.S.R.-01 Matrix Spike fell above the Quality Control Limits for Lead and fell below the Quality Contol Limits for Antimony and Thallium. The recovery of sample T.S.R.-01 Matrix Spike Duplicate fell below the Quality Control Limits for Antimony, Potassium, and Thallium. The LFB was acceptable for all elements.

The recovery of Zinc fell above the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The recovery of Iron and Manganese fell below the QC limits in sample T.S.R.-01 Matrix Spike and Matrix Spike Duplicate. The sample results were more than four times greater than the spike added, therefore, no qualifiers were needed. The LFB was acceptable for all elements.

Revision Comments

This report has been revised to include the pesticide and herbicide data in Appendix A. Insertion pages have been numbered for inclusion in the original report.

SEVERN TRENT STL

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

_____

Susan L. Mazur
Laboratory Director

_____

Date

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Blasland Bouck & Lee	Project Manager: Joe Molina	Date: 9/3/02	Chain of Custody Number: 114688
Address: 1400 Sweet Home Rd, Suite 1	Telephone Number (Area Code)/Fax Number: (716) 689-1544 / (716) 689-1568	Lab Number	Page 1 of 1
City: Buffalo; State: NY; Zip Code: 14228	Site Contact	Lab Contact	
Project Name and Location (State): Bern Metals, Buffalo, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Total Lead	TCL Volatiles	TCL Semi Volatiles	Pesticides	PCB's	Herbicides	TAL Metals (25)	Special Instructions/ Conditions of Receipt
T.S.R-01	9/3/02	1:36				X								X	X	X	X	X	X	Composite (4)
R.O.C.-02	9/3/02	2:45				X								X	X	X	X	X	X	Composite (4)
BM1-01	9/3/02	3:00				X							X							Area 1 Grab N
BM1-02 (Composite)	9/3/02	3:00				X							X							Area 1 Grab S
BM1-03	9/3/02	3:00				X							X							Area 1 Grab E
BM1-04	9/3/02	3:00				X							X							Area 1 Grab W
																				Apon result turnaround
																				Further analytical
																				may be needed.

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [X] Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [X] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Bu G. Fu	9/3/02	5:10	1. Received By: James D. Parker	9/3/02	1710
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: ambient

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

Fax message

To: Andy Fraser
Company: BB+L
Fax: 853-2559
Subject: A02-8717

From: Lisa Shaffer/ Candy Fox
Date: 11/21/02
Pages: 11

Hi Andy -

Here is the pesticide and herbicide Form I data for job A02-8717. We will issue a revised report as soon as possible. I apologize for any inconvenience.

Thank you!

Lisa

Severn Trent Laboratories Inc.
STL Buffalo 10 Hazelwood Drive Amherst, New York 14228
Tel 716 691 2600 Fax 716 691 7991 Toll Free 877 STL BFLO • www.stl-inc.com

A part of Severn Trent plc

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

T.S.R.-01

Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.03 (g/mL) G Lab File ID: RA20046.TX0

% Moisture: 19.3 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 2.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.1	U
319-84-6	alpha-BHC	4.1	U
319-85-7	beta-BHC	4.1	U
58-89-9	gamma-BHC (Lindane)	4.1	U
319-86-8	delta-BHC	4.1	U
57-74-9	Chlordane	41	U
72-54-8	4,4'-DDD	27	
72-55-9	4,4'-DDE	5.2	
50-29-3	4,4'-DDT	5.9	
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	4.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan Sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin aldehyde	4.1	U
76-44-8	Heptachlor	4.1	U
1024-57-3	Heptachlor epoxide	4.1	U
72-43-5	Methoxychlor	4.1	U
8001-35-2	Toxaphene	82	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

R.O.C.-02

Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.26 (g/mL) G Lab File ID: RA20047.TX0

% Moisture: 5.7 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
319-86-8	delta-BHC	1.8	U
57-74-9	Chlordane	18	U
72-54-8	4,4'-DDD	1.8	U
72-55-9	4,4'-DDE	1.8	U
50-29-3	4,4'-DDT	1.8	U
60-57-1	Dieldrin	1.8	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	1.8	U
1031-07-8	Endosulfan Sulfate	1.8	U
72-20-8	Endrin	1.8	U
7421-93-4	Endrin aldehyde	1.8	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
72-43-5	Methoxychlor	1.8	U
8001-35-2	Toxaphene	35	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Matrix Spike Blank

b Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854401

Sample wt/vol: 30.25 (g/mL) G Lab File ID: RA20048.TX0

% Moisture: 0.0 decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	30	
319-84-6	alpha-BHC	30	
319-85-7	beta-BHC	31	
58-89-9	gamma-BHC (Lindane)	29	
319-86-8	delta-BHC	26	
57-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	30	
72-55-9	4,4'-DDE	30	
50-29-3	4,4'-DDT	27	
60-57-1	Dieldrin	30	
959-98-8	Endosulfan I	31	
33213-65-9	Endosulfan II	31	
1031-07-8	Endosulfan Sulfate	28	
72-20-8	Endrin	30	
7421-93-4	Endrin aldehyde	33	
76-44-8	Heptachlor	29	
1024-57-3	Heptachlor epoxide	31	
72-43-5	Methoxychlor	24	
8001-35-2	Toxaphene	33	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Matrix Spike Blk Dup

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854402

Sample wt/vol: 30.05 (g/mL) G Lab File ID: RA20049.TX0

% Moisture: 0.0 decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	31	
319-84-6	alpha-BHC	31	
319-85-7	beta-BHC	32	
58-89-9	gamma-BHC (Lindane)	30	
319-86-8	delta-BHC	27	
57-74-9	Chlordane	17	U
72-54-8	4,4'-DDD	31	
72-55-9	4,4'-DDE	32	
50-29-3	4,4'-DDT	29	
60-57-1	Dieldrin	32	
959-98-8	Endosulfan I	33	
33213-65-9	Endosulfan II	32	
1031-07-8	Endosulfan Sulfate	30	
72-20-8	Endrin	31	
7421-93-4	Endrin aldehyde	35	
76-44-8	Heptachlor	30	
1024-57-3	Heptachlor epoxide	32	
72-43-5	Methoxychlor	26	
8001-35-2	Toxaphene	33	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854403

Sample wt/vol: 30.51 (g/mL) G Lab File ID: RA20050.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.6	U
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
319-86-8	delta-BHC	1.6	U
57-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	1.6	U
72-55-9	4,4'-DDE	1.6	U
50-29-3	4,4'-DDT	1.6	U
60-57-1	Dieldrin	1.6	U
959-98-8	Endosulfan I	1.6	U
33213-65-9	Endosulfan II	1.6	U
1031-07-8	Endosulfan Sulfate	1.6	U
72-20-8	Endrin	1.6	U
7421-93-4	Endrin aldehyde	1.6	U
76-44-8	Heptachlor	1.6	U
1024-57-3	Heptachlor epoxide	1.6	U
72-43-5	Methoxychlor	1.6	U
8001-35-2	Toxaphene	32	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

T.S.R.-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871701

Sample wt/vol: 30.23 (g/mL) G Lab File ID: MA67257.TX0

% Moisture: 19.3 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	21	U
93-72-1	2,4,5-TP (Silvex)	21	U
93-76-5	2,4,5-T	21	U
1918-00-9	Dicamba	21	U
88-85-7	Dinoseb	21	U
75-99-0	Dalapon	21	U
120-36-5	Dichloroprop	21	U
87-86-5	Pentachlorophenol	21	U
1918-02-1	Picloram	21	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

R.O.C.-02

b Name: STL Buffalo Contract: _____

Lab Code: REXNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2871702

Sample wt/vol: 30.19 (g/mL) G Lab File ID: MA67258.TXO

% Moisture: 5.7 decanted: (Y/N) N Date Samp/Recv: 09/03/2002 09/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	18	U
93-72-1	2,4,5-TP (Silvex)	18	U
93-76-5	2,4,5-T	18	U
1918-00-9	Dicamba	18	U
88-85-7	Dinoseb	18	U
75-99-0	Dalapon	18	U
120-36-5	Dichloroprop	18	U
87-86-5	Pentachlorophenol	18	U
1918-02-1	Picloram	18	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

Matrix Spike Blank

Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854501

Sample wt/vol: 30.75 (g/mL) G Lab File ID: M467259.TX0

% Moisture: 0.0 decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	57	
93-72-1	2,4,5-TP (Silvex)	50	
93-76-5	2,4,5-T	55	
1918-00-9	Dicamba	34	
88-85-7	Dinoseb	40	
75-99-0	Dalapon	35	
120-36-5	Dichloroprop	45	
87-86-5	Pentachlorophenol	40	
1918-02-1	Picloram	28	

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

Matrix Spike Blk Dup

b Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854502

Sample wt/vol: 30.03 (g/mL) G Lab File ID: MA67260.TX0

% Moisture: 0.0 decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	61	
93-72-1	2,4,5-TP (Silvex)	54	
93-76-5	2,4,5-T	62	
1918-00-9	Dicamba	25	
88-85-7	Dinoseb	39	
75-99-0	Dalapon	30	
120-36-5	Dichloroprop	50	
87-86-5	Pentachlorophenol	37	
1918-02-1	Picloram	29	

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

Method Blank

b Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0854503

Sample wt/vol: 30.29 (g/mL) G Lab File ID: MA67261.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	17	U
93-72-1	2,4,5-TP (Silvex)	17	U
93-76-5	2,4,5-T	17	U
1918-00-9	Dicamba	17	U
88-85-7	Dinoseb	17	U
75-99-0	Dalapon	17	U
120-36-5	Dichloroprop	17	U
87-86-5	Pentachlorophenol	17	U
1918-02-1	Picloram	17	U

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: Blasland Bouck & Lee	Project Manager: Joe Molna	Date: 10/1/02	Chain of Custody Number: 135644
Address: 1400 Sweet Home Suite 1	Telephone Number (Area Code)/Fax Number: (716) 689-1544 / (716) 689-1568	Lab Number	Page 1 of 1
City: Amherst; State: NY; Zip Code: 14228	Site Contact: A. Fraser	Lab Contact: Candace Fox	
Project Name and Location (State): Bern Metals, Buffalo, NY	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	4°C	VOCs	SVOCs	Pesticides	Herbicides	PCBs	TAL Metals (25)	Special Instructions/ Conditions of Receipt
TPSLP-01/02/03/04	9/30/02	15:00				X								X	X	X	X	X	X	X	composite (4)
SPL-012	10/1/02	15:30				X								X	X	X	X	X	X	X	composite (4)

(4) 4oz GLASS WERE COMPOSITED INTO A 16oz GLASS BY STL BUFFALO S/C PERSONNEL RPK 10/02/02 0930

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other On Hold

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 10/1/02	Time: 17:15	1. Received By: [signature]	Date: 10/1/02	Time: 1715
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

6°C

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT SERVICES

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A02-9801

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.
Task: Bern Metal/Universal Metal Site

Douglas Ruszczyk
1400 Sweet Home Road
Suite 1
Amherst, NY 14228

STL Buffalo

Candace L. Fox
Project Manager

Susan L. Mazur
Laboratory Director

10/10/2002

This report contains 1040 pages which are individually numbered.

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2980102	SPL-012	10/01/2002	15:30	10/03/2002	17:15
A2980101	TPSLP 01-04	09/30/2002	15:00	10/03/2002	17:15

METHODS SUMMARY

Job#: A02-9801

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-9801

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-9801
Sample Cooler(s) were received at the following temperature(s); 6 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in the Method Blank (VBLK36) at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

The percent difference for the continuing calibration verification of Toxaphene exceeded the quality control limit of less than or equal to 15 percent. The response of the Toxaphene standard was high, leading to positive bias. There were no sample hits for Toxaphene; no corrective action was indicated.

SEVERN TRENT SERVICES

STL Buffalo

Metals Data

The recovery of the 3rd CCV fell below the quality control limits for all analytes. However, all samples were bracketed by compliant CCV's, therefore, no correvtive action was necessary.

The analyte Zinc was detected in the Method Blank at a level above the project established reporting limit. However, all samples had levels of Zinc greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."

Susan L. Mazur

Susan L. Mazur
Laboratory Director

10/11/01
Date

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

CUSTOMER SAMPLE ID	LABORATORY SAMPLE ID	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST PCB	METALS	WATER QUALITY
SPL-012	A2980102	SW8463	SW8463	-	SW8463	SW8463	-
TPSLP 01-04	A2980101	SW8463	SW8463	-	SW8463	SW8463	-

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-012	SOIL	10/01/2002	10/03/2002	-	10/04/2002
TPSLP 01-04	SOIL	09/30/2002	10/03/2002	-	10/04/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-012	SOIL	10/01/2002	10/03/2002	10/07/2002	10/07/2002
TPSLP 01-04	SOIL	09/30/2002	10/03/2002	10/07/2002	10/07/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
SPL-012	SOIL	10/01/2002	10/03/2002	10/04/2002	10/05,08/2002
TPSLP 01-04	SOIL	09/30/2002	10/03/2002	10/04/2002	10/05,08/2002

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	METALS REQUESTED	DATE RECEIVED AT LAB	DATE DIGESTED	DATE ANALYZED
SPL-012	SOIL	HSL ME	10/03/2002	10/04,08/2002	10/04,09/2002
TPSLP 01-04	SOIL	HSL ME	10/03/2002	10/04,08/2002	10/04,09/2002

NYSDEC-5

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILIARY CLEAN UP	DIL/CONC FACTOR
SPL-012	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED
TPSLP 01-04	SOIL	SW8463	SEPF; SONC	AS REQUIRED	AS REQUIRED

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
SPL-012	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED
TPSLP 01-04	SOIL	SW8463	SW8463	AS REQUIRED	AS REQUIRED

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B This flag is used when the analyte is found in the associated blank, as well as in the sample.

E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D This flag identifies all compounds identified in an analysis at the secondary dilution factor.

N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.

P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".

A This flag indicates that a TIC is a suspected aldol-condensation product.

1 Indicates coelution.

* Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.

N Indicates spike sample recovery is not within the quality control limits.

K Indicates the post digestion spike recovery is not within the quality control limits.

S Indicates value determined by the Method of Standard Addition.

M Indicates duplicate injection results exceeded quality control limits.

W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance

E Indicates a value estimated or not reported due to the presence of interferences.

H Indicates analytical holding time exceedance The value obtained should be considered an estimate.

* Indicates analysis is not within the quality control limits.

+ Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000014

Client No.

SPL-012

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 5.19 (g/mL) G Lab File ID: Q6804.RR

Level: (low/med) LOW Date Samp/Recv: 10/01/2002 10/03/2002

% Moisture: not dec. 20.1 Heated Purge: Y Date Analyzed: 10/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	30	U
71-43-2	Benzene	6	U
75-27-4	Bromodichloromethane	6	U
75-25-2	Bromoform	6	U
74-83-9	Bromomethane	12	U
78-93-3	2-Butanone	30	U
75-15-0	Carbon Disulfide	6	U
56-23-5	Carbon Tetrachloride	6	U
108-90-7	Chlorobenzene	6	U
75-00-3	Chloroethane	12	U
67-66-3	Chloroform	6	U
74-87-3	Chloromethane	12	U
124-48-1	Dibromochloromethane	6	U
75-34-3	1,1-Dichloroethane	6	U
107-06-2	1,2-Dichloroethane	6	U
75-35-4	1,1-Dichloroethene	6	U
540-59-0	1,2-Dichloroethene (Total)	12	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
100-41-4	Ethylbenzene	6	U
591-78-6	2-Hexanone	12	U
75-09-2	Methylene chloride	10	B
108-10-1	4-Methyl-2-pentanone	30	U
100-42-5	Styrene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
127-18-4	Tetrachloroethene	6	U
108-88-3	Toluene	6	U
71-55-6	1,1,1-Trichloroethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
79-01-6	Trichloroethene	6	U
108-05-4	Vinyl acetate	12	U
75-01-4	Vinyl chloride	12	U
1330-20-7	Total Xylenes	18	U

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000015

Client No.

TPSLP 01-04

Lab e: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 5.13 (g/mL) G Lab File ID: Q6802.RR

Level: (low/med) LOW Date Samp/Recv: 09/30/2002 10/03/2002

% Moisture: not dec. 31.5 Heated Purge: Y Date Analyzed: 10/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	8	J
71-43-2	Benzene	7	U
75-27-4	Bromodichloromethane	7	U
75-25-2	Bromoform	7	U
74-83-9	Bromomethane	14	U
78-93-3	2-Butanone	36	U
75-15-0	Carbon Disulfide	7	U
56-23-5	Carbon Tetrachloride	7	U
108-90-7	Chlorobenzene	7	U
75-00-3	Chloroethane	14	U
67-66-3	Chloroform	7	U
74-87-3	Chloromethane	14	U
124-48-1	Dibromochloromethane	7	U
75-34-3	1,1-Dichloroethane	7	U
107-06-2	1,2-Dichloroethane	7	U
75-35-4	1,1-Dichloroethene	7	U
540-59-0	1,2-Dichloroethene (Total)	14	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
100-41-4	Ethylbenzene	7	U
591-78-6	2-Hexanone	14	U
75-09-2	Methylene chloride	12	B
108-10-1	4-Methyl-2-pentanone	36	U
100-42-5	Styrene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
127-18-4	Tetrachloroethene	7	U
108-88-3	Toluene	7	U
71-55-6	1,1,1-Trichloroethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
79-01-6	Trichloroethene	7	U
108-05-4	Vinyl acetate	14	U
75-01-4	Vinyl chloride	14	U
1330-20-7	Total Xylenes	21	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

SPL-012

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.02 (g/mL) G Lab File ID: W49080.RR

Level: (low/med) LOW Date Samp/Recv: 10/01/2002 10/03/2002

% Moisture: 20.0 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	410	U
208-96-8	Acenaphthylene	410	U
120-12-7	Anthracene	410	U
56-55-3	Benzo(a)anthracene	410	U
205-99-2	Benzo(b)fluoranthene	410	U
207-08-9	Benzo(k)fluoranthene	410	U
191-24-2	Benzo(ghi)perylene	410	U
50-32-8	Benzo(a)pyrene	410	U
65-85-0	Benzoic acid	2000	U
100-51-6	Benzyl alcohol	410	U
111-91-1	Bis(2-chloroethoxy) methane	410	U
111-44-4	Bis(2-chloroethyl) ether	410	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	410	U
117-81-7	Bis(2-ethylhexyl) phthalate	23	J
101-55-3	4-Bromophenyl phenyl ether	410	U
85-68-7	Butyl benzyl phthalate	410	U
106-47-8	4-Chloroaniline	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-58-7	2-Chloronaphthalene	410	U
95-57-8	2-Chlorophenol	410	U
7005-72-3	4-Chlorophenyl phenyl ether	410	U
218-01-9	Chrysene	410	U
53-70-3	Dibenzo(a,h)anthracene	410	U
132-64-9	Dibenzofuran	410	U
84-74-2	Di-n-butyl phthalate	27	J
95-50-1	1,2-Dichlorobenzene	410	U
541-73-1	1,3-Dichlorobenzene	410	U
106-46-7	1,4-Dichlorobenzene	410	U
91-94-1	3,3'-Dichlorobenzidine	820	U
120-83-2	2,4-Dichlorophenol	410	U
84-66-2	Diethyl phthalate	410	U
105-67-9	2,4-Dimethylphenol	410	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000017

Client No.

SPL-012

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.02 (g/mL) G Lab File ID: W49080.RR

Level: (low/med) LOW Date Samp/Recv: 10/01/2002 10/03/2002

% Moisture: 20.0 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	410	U
534-52-1	4,6-Dinitro-2-methylphenol	2000	U
51-28-5	2,4-Dinitrophenol	2000	U
121-14-2	2,4-Dinitrotoluene	410	U
606-20-2	2,6-Dinitrotoluene	410	U
117-84-0	Di-n-octyl phthalate	410	U
206-44-0	Fluoranthene	410	U
86-73-7	Fluorene	410	U
118-74-1	Hexachlorobenzene	410	U
87-68-3	Hexachlorobutadiene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
67-72-1	Hexachloroethane	410	U
193-39-5	Indeno(1,2,3-cd)pyrene	410	U
78-59-1	Isophorone	410	U
91-57-6	2-Methylnaphthalene	410	U
95-48-7	2-Methylphenol	410	U
106-44-5	4-Methylphenol	410	U
91-20-3	Naphthalene	410	U
88-74-4	2-Nitroaniline	2000	U
99-09-2	3-Nitroaniline	2000	U
100-01-6	4-Nitroaniline	2000	U
98-95-3	Nitrobenzene	410	U
88-75-5	2-Nitrophenol	410	U
100-02-7	4-Nitrophenol	2000	U
86-30-6	N-nitrosodiphenylamine	410	U
621-64-7	N-Nitroso-Di-n-propylamine	410	U
87-86-5	Pentachlorophenol	2000	U
85-01-8	Phenanthrene	410	U
108-95-2	Phenol	410	U
129-00-0	Pyrene	410	U
120-82-1	1,2,4-Trichlorobenzene	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.
SPL-012

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.02 (g/mL) G Lab File ID: W49080.RR

Level: (low/med) LOW Date Samp/Recv: 10/01/2002 10/03/2002

% Moisture: 20.0 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	410	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000019

Client No.

TPSLP 01-04

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.36 (g/mL) G Lab File ID: W49079.RR

Level: (low/med) LOW Date Samp/Recv: 09/30/2002 10/03/2002

% Moisture: 26.7 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	440	U
208-96-8	Acenaphthylene	440	U
120-12-7	Anthracene	440	U
56-55-3	Benzo(a)anthracene	28	J
205-99-2	Benzo(b)fluoranthene	34	J
207-08-9	Benzo(k)fluoranthene	28	J
191-24-2	Benzo(ghi)perylene	440	U
50-32-8	Benzo(a)pyrene	440	U
65-85-0	Benzoic acid	2200	U
100-51-6	Benzyl alcohol	440	U
111-91-1	Bis(2-chloroethoxy) methane	440	U
111-44-4	Bis(2-chloroethyl) ether	440	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	440	U
117-81-7	Bis(2-ethylhexyl) phthalate	33	J
101-55-3	4-Bromophenyl phenyl ether	440	U
85-68-7	Butyl benzyl phthalate	440	U
106-47-8	4-Chloroaniline	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-58-7	2-Chloronaphthalene	440	U
95-57-8	2-Chlorophenol	440	U
7005-72-3	4-Chlorophenyl phenyl ether	440	U
218-01-9	Chrysene	40	J
53-70-3	Dibenzo(a,h)anthracene	440	U
132-64-9	Dibenzofuran	440	U
84-74-2	Di-n-butyl phthalate	36	J
95-50-1	1,2-Dichlorobenzene	440	U
541-73-1	1,3-Dichlorobenzene	440	U
106-46-7	1,4-Dichlorobenzene	440	U
91-94-1	3,3'-Dichlorobenzidine	890	U
120-83-2	2,4-Dichlorophenol	440	U
84-66-2	Diethyl phthalate	440	U
105-67-9	2,4-Dimethylphenol	440	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

TPSLP 01-04

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.36 (g/mL) G Lab File ID: W49079.RR

Level: (low/med) LOW Date Samp/Recv: 09/30/2002 10/03/2002

% Moisture: 26.7 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	440	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
51-28-5	2,4-Dinitrophenol	2200	U
121-14-2	2,4-Dinitrotoluene	440	U
606-20-2	2,6-Dinitrotoluene	440	U
117-84-0	Di-n-octyl phthalate	440	U
206-44-0	Fluoranthene	68	J
86-73-7	Fluorene	440	U
118-74-1	Hexachlorobenzene	440	U
87-68-3	Hexachlorobutadiene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
67-72-1	Hexachloroethane	440	U
193-39-5	Indeno(1,2,3-cd)pyrene	440	U
78-59-1	Isophorone	440	U
91-57-6	2-Methylnaphthalene	440	U
95-48-7	2-Methylphenol	440	U
106-44-5	4-Methylphenol	440	U
91-20-3	Naphthalene	440	U
88-74-4	2-Nitroaniline	2200	U
99-09-2	3-Nitroaniline	2200	U
100-01-6	4-Nitroaniline	2200	U
98-95-3	Nitrobenzene	440	U
88-75-5	2-Nitrophenol	440	U
100-02-7	4-Nitrophenol	2200	U
86-30-6	N-nitrosodiphenylamine	440	U
621-64-7	N-Nitroso-Di-n-propylamine	440	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	31	J
108-95-2	Phenol	440	U
129-00-0	Pyrene	55	J
120-82-1	1,2,4-Trichlorobenzene	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000021

Client No.

TPSLP 01-04

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.36 (g/mL) G Lab File ID: W49079.RR

Level: (low/med) LOW Date Samp/Recv: 09/30/2002 10/03/2002

% Moisture: 26.7 decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	440	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

SPL-012

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.06 (g/mL) G Lab File ID: RA20552.TX0

% Moisture: 20.0 decanted: (Y/N) N Date Samp/Recv: 10/01/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/08/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
19-86-8	delta-BHC	2.1	U
57-74-9	Chlordane	21	U
72-54-8	4,4'-DDD	2.1	U
72-55-9	4,4'-DDE	8.6	
50-29-3	4,4'-DDT	9.3	
60-57-1	Dieldrin	2.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	2.1	U
1031-07-8	Endosulfan Sulfate	2.1	U
72-20-8	Endrin	2.1	U
7421-93-4	Endrin aldehyde	2.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor epoxide	2.1	U
72-43-5	Methoxychlor	2.1	U
8001-35-2	Toxaphene	41	U

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000023

Client No.

TPSLP 01-04

Lal me: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.35 (g/mL) G Lab File ID: RA20551.TX0

% Moisture: 26.7 decanted: (Y/N) N Date Samp/Recv: 09/30/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/08/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
9-86-8	delta-BHC	2.2	U
/-74-9	Chlordane	22	U
72-54-8	4,4'-DDD	2.2	U
72-55-9	4,4'-DDE	2.2	U
50-29-3	4,4'-DDT	2.2	U
60-57-1	Dieldrin	2.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	2.2	U
1031-07-8	Endosulfan Sulfate	2.2	U
72-20-8	Endrin	2.2	U
7421-93-4	Endrin aldehyde	2.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
72-43-5	Methoxychlor	2.2	U
8001-35-2	Toxaphene	44	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

Client No.

SPL-012

La ame: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.11 (g/mL) G Lab File ID: SA07326.TX0

% Moisture: 20.0 decanted: (Y/N) N Date Samp/Recv: 10/01/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	21	U
11104-28-2	Aroclor 1221	21	U
11141-16-5	Aroclor 1232	21	U
53469-21-9	Aroclor 1242	21	U
2672-29-6	Aroclor 1248	21	U
1097-69-1	Aroclor 1254	21	U
11096-82-5	Aroclor 1260	21	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000025

Client No.

TPSLP 01-04

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.80 (g/mL) G Lab File ID: SA07325.TX0

% Moisture: 26.7 decanted: (Y/N) N Date Samp/Recv: 09/30/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	22	U
11104-28-2	Aroclor 1221	22	U
11141-16-5	Aroclor 1232	22	U
53469-21-9	Aroclor 1242	22	U
`672-29-6	Aroclor 1248	22	U
.097-69-1	Aroclor 1254	22	U
11096-82-5	Aroclor 1260	22	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000026

Client No.

SPL-012

La ıme: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980102

Sample wt/vol: 30.66 (g/mL) G Lab File ID: MA67510.TX0

% Moisture: 20.0 decanted: (Y/N) N Date Samp/Recv: 10/01/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 10/07/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	21	U
93-72-1	2,4,5-TP (Silvex)	21	U
93-76-5	2,4,5-T	21	U
1918-00-9	Dicamba	21	U
9-85-7	Dinoseb	21	U
5-99-0	Dalapon	21	U
120-36-5	Dichloroprop	21	U
87-86-5	Pentachlorophenol	21	U
1918-02-1	Picloram	21	U

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

Client No.

TPSLP 01-04

Lal me: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980101

Sample wt/vol: 30.63 (g/mL) G Lab File ID: MA67509.TX0

% Moisture: 26.7 decanted: (Y/N) N Date Samp/Recv: 09/30/2002 10/03/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 10/07/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/09/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	23	U
93-72-1	2,4,5-TP (Silvex)	23	U
93-76-5	2,4,5-T	23	U
1918-00-9	Dicamba	23	U
3-85-7	Dinoseb	23	U
3-99-0	Dalapon	23	U
120-36-5	Dichloroprop	23	U
87-86-5	Pentachlorophenol	23	U
1918-02-1	Picloram	23	U

BLASLAND BOUCK & LEE, INC.

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SPL-012

Contract: NY02-222

Lab Code: STL BFLO Case No.: SAS No.: SDG NO.: A02-9801

Matrix (soil/water): SOIL Lab Sample ID: AD230768

Level (low/med): LOW Date Received: 10/3/02

% Solids: 80

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13400		E	P
7440-36-0	Antimony	12.5	U		P
7440-38-2	Arsenic	13.7			P
7440-39-3	Barium	143		E	P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	1450			P
7440-47-3	Chromium	17.3			P
7440-48-4	Cobalt	13.2			P
7440-50-8	Copper	31.3			P
7439-89-6	Iron	32400		E	P
7439-92-1	Lead	20.9			P
7439-95-4	Magnesium	3760		E	P
7439-96-5	Manganese	800		E	P
7440-02-0	Nickel	27.1			P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	3.8	U		P
7440-22-4	Silver	1.2	U		P
7439-97-6	Mercury	0.038			CV
7440-23-5	Sodium	125	U		P
7440-28-0	Thallium	7.5	U		P
7440-62-2	Vanadium	18.0			P
7440-66-6	Zinc	101		E	P

Color Before: BROWN Clarity Before: N/A Texture: SILT

Color After: GRAY Clarity After: CLDY/F Artifacts:

Comments:

BLASLAND BOUCK & LEE, INC.

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TPSLP 01-04

Contract: NY02-222

Lab Code: STL BFLO Case No.: SAS No.: SDG NO.: A02-9801

Matrix (soil/water): SOIL Lab Sample ID: AD230767

Level (low/med): LOW Date Received: 10/3/02

% Solids: 73

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15800		E	P
7440-36-0	Antimony	14.2	U		P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	87.3		E	P
7440-41-7	Beryllium	0.71	U		P
7440-43-9	Cadmium	0.71	U		P
7440-70-2	Calcium	1990			P
7440-47-3	Chromium	17.7			P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	19.1			P
7439-89-6	Iron	26600		E	P
7439-92-1	Lead	34.5			P
7439-95-4	Magnesium	3000		E	P
7439-96-5	Manganese	668		E	P
7440-02-0	Nickel	21.6			P
7440-09-7	Potassium	1010			P
7782-49-2	Selenium	4.3	U		P
7440-22-4	Silver	1.4	U		P
7439-97-6	Mercury	0.061			CV
7440-23-5	Sodium	142	U		P
7440-28-0	Thallium	8.5	U		P
7440-62-2	Vanadium	25.8			P
7440-66-6	Zinc	108		E	P

Color Before: GRAY Clarity Before: N/A Texture: SILT

Color After: GRAY Clarity After: CLDY/F Artifacts:

Comments:

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

b Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB36	102		99		107							0
2	SPL-012	98		100		106							0
3	TPSLP 01-04	100		99		107							0
4	vblk36	100		100		109							0

			QC LIMITS
BFB	=	p-Bromofluorobenzene	(67-118)
DCE	=	1,2-Dichloroethane-D4	(63-133)
TOL	=	Toluene-D8	(78-118)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL SURROGATE RECOVERY

ab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	2FP %REC	#	FBP %REC	#	NBZ %REC	#	PHL %REC	#	TBP %REC	#	TPH %REC	#					TOT OUT
1	Matrix Spike Blank	88		94		87		88		92		100						0
2	S BLANK	84		90		83		83		84		101						0
3	SPL-012	77		82		74		76		86		86						0
4	TPSLP 01-04	82		88		80		83		87		89						0

			QC LIMITS
2FP	=	2-Fluorophenol	(25-121)
FBP	=	2-Fluorobiphenyl	(27-128)
NBZ	=	Nitrobenzene-D5	(21-120)
PHL	=	Phenol-D5	(18-139)
TBP	=	2,4,6-Tribromophenol	(34-147)
TPH	=	p-Terphenyl-d14	(41-139)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8081 - TCL PESTICIDES
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): RTXCLPI ID: 0.32 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	83		84								0
2	Matrix Spike Blk Dup	88		83								0
3	Method Blank	101		100								0
4	SPL-012	106		88								0
5	TPSLP 01-04	145		84								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-130)

Column to be used to flag recovery values
* Values outside of contract required QC limits
Surrogates diluted out

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): ZB-35 ID: 0.53 (mm)

Level (low/med): LOW

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	80		84								0
2	Method Blank	82		90								0
3	SPL-012	74		84								0
4	TPSLP 01-04	80		74								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(36-153)
(TCMX) = Tetrachloro-m-xylene	(32-148)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8151 - HERBICIDES FULL LIST
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

GC Column(1): DB-XLB ID: 0.00 (um)

Level (low/med): LOW

	Client Sample ID	DCAA %REC #								TOT OUT
1	Matrix Spike Blank	57								0
2	Matrix Spike Blk Dup	68								0
3	Method Blank	77								0
4	SPL-012	51								0
5	TPSLP 01-04	48								0

QC LIMITS

(DCAA) = Dichlorophenyl Acetic Acid (17-133)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

METHOD 8260 - TCL VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

000035

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2980103

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: vblk36 Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	59.5	119	61 - 146
Trichloroethene	50.0	55.2	110	69 - 128
Benzene	50.0	54.7	110	71 - 128
Toluene	50.0	51.1	102	69 - 129
Chlorobenzene	50.0	52.7	105	72 - 126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SOIL MATRIX SPIKE BLANK RECOVERY

000036

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0980802

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: S BLANK Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
Phenol	3328	2568	77	34 - 120
2-Chlorophenol	3328	2747	82	32 - 120
1,4-Dichlorobenzene	3328	2496	75	25 - 120
N-Nitroso-Di-n-propyl(1)	3328	2791	84	33 - 121
1,2,4-Trichlorobenzene	3328	2614	78	32 - 120
4-Chloro-3-methylphenol	3328	2984	90	43 - 123
Acenaphthene	3328	2961	89	43 - 122
4-Nitrophenol	3328	3048	92	29 - 128
2,4-Dinitrotoluene	3328	2988	90	43 - 128
Pentachlorophenol	3328	2662	80	28 - 138
Pyrene	3328	3325	100	47 - 144

(1) N-Nitroso-Di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 11 outside limits

Comments: _____

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

000037

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0977603

La ode: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aldrin	32.8	25.8	79	48 - 128	
alpha-BHC	32.8	26.4	81	47 - 123	
beta-BHC	32.8	27.7	85	56 - 129	
delta-BHC	32.8	24.7	75	42 - 127	
gamma-BHC (Lindane)	32.8	26.6	81	42 - 136	
4,4'-DDD	32.8	24.5	75	42 - 133	
4,4'-DDE	32.8	26.5	81	44 - 136	
4,4'-DDT	32.8	24.4	74	49 - 148	
Dieldrin	32.8	25.8	79	51 - 132	
Endosulfan I	32.8	26.9	82	42 - 132	
Endosulfan II	32.8	26.3	80	44 - 135	
Endosulfan Sulfate	32.8	25.2	77	42 - 136	
Endrin aldehyde	32.8	28.0	86	37 - 123	
Endrin	32.8	25.9	79	41 - 132	
Heptachlor	32.8	27.4	84	43 - 127	
Heptachlor epoxide	32.8	26.5	81	45 - 128	
Methoxychlor	32.8	24.8	76	42 - 140	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	32.8	25.7	78	1	30	48 - 128	
alpha-BHC	32.8	26.8	82	1	30	47 - 123	
beta-BHC	32.8	28.4	87	2	30	56 - 129	
delta-BHC	32.8	25.5	78	4	30	42 - 127	
gamma-BHC (Lindane)	32.8	27.1	83	2	30	42 - 136	
4,4'-DDD	32.8	25.3	77	3	30	42 - 133	
4,4'-DDE	32.8	29.4	89	9	30	44 - 136	
4,4'-DDT	32.8	27.3	83	11	30	49 - 148	
Dieldrin	32.8	26.7	82	4	30	51 - 132	
Endosulfan I	32.8	27.9	85	4	30	42 - 132	
Endosulfan II	32.8	26.5	81	1	30	44 - 135	
Endosulfan Sulfate	32.8	25.7	78	1	30	42 - 136	
Endrin aldehyde	32.8	29.4	90	4	30	37 - 123	
Endrin	32.8	26.8	82	4	30	41 - 132	
Heptachlor	32.8	27.6	84	0	30	43 - 127	
Heptachlor epoxide	32.8	27.2	83	2	30	45 - 128	
Methoxychlor	32.8	26.1	79	4	30	42 - 140	

METHOD 8081 - TCL PESTICIDES
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0977603

La de: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level:(low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC	#	% RPD	#	QC LIMITS RPD	QC LIMITS REC.	+

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike recovery: 0 out of 34 outside limits

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0977902

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
Aroclor 1254	164	187	114	52 - 153	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike recovery: 0 out of 1 outside limits

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST 000040
SOIL MATRIX SPIKE BLANK/MATRIX SPIKE BLANK DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A2B0980703

La ode: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: Method Blank Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.	+
2,4-D	65.7	58.5	89	13 - 132	
Dalapon	65.7	44.7	68	16 - 122	
Dinoseb	65.7	38.1	58	10 - 120	
Pentachlorophenol	65.7	38.7	59	10 - 120	
Picloram	65.7	38.9	44	10 - 120	
2,4,5-TP (Silvex)	65.7	48.2	73	28 - 114	
2,4,5-T	65.7	53.7	82	40 - 110	

COMPOUND	SPIKE ADDED UG/KG	MSBD CONCENTRATION UG/KG	MSBD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
2,4-D	65.2	54.7	84	6	30	13 - 132	
Dalapon	65.2	48.1	74	8	30	16 - 122	
Dinoseb	65.2	40.8	62	7	30	10 - 120	
Pentachlorophenol	65.2	46.6	71	18	30	10 - 120	
P' oram	65.2	43.9	52	17	30	10 - 120	
2. 5-TP (Silvex)	65.2	46.6	72	1	30	28 - 114	
2,4,5-T	65.2	45.0	69	17	30	40 - 110	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 7 outside limits
Spike recovery: 0 out of 14 outside limits

Comments: _____

BLASLAND BOUCK & LEE, INC.
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

TPSLP 01-04A

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Aluminum		120798.10		111413.60		10000.0	93.8		P
Antimony		177.12		100.00	U	200.0	88.6		P
Arsenic		219.44		44.54		200.0	87.4		P
Barium		795.43		613.89		200.0	90.8		P
Beryllium		182.71		5.00	U	200.0	91.4		P
Cadmium		170.12		5.00	U	200.0	85.1		P
Calcium		22650.25		13988.29		10000.0	86.6		P
Chromium		298.72		124.33		200.0	87.2		P
Cobalt		246.01		69.96		200.0	88.0		P
Copper		313.31		134.51		200.0	89.4		P
Iron		185047.09		186819.80		400.0	-443.2		P
Lead		413.51		242.79		200.0	85.4		P
Magnesium		30167.17		21106.32		10000.0	90.6		P
Manganese		4809.63		4696.03		200.0	56.8		P
Nickel		329.16		151.92		200.0	88.6		P
Potassium		16662.02		7075.42		10000.0	95.9		P
Selenium		175.31		30.00	U	200.0	87.7		P
Silver		46.36		10.00	U	50.0	92.7		P
Sodium		9487.05		1000.00	U	10000.0	94.9		P
Thallium		161.18		60.00	U	200.0	80.6		P
Vanadium		366.88		181.64		200.0	92.6		P
Zinc		928.31		758.18		200.0	85.1		P

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
METHOD BLANK SUMMARY

000042
Client No.

vblk36

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: Q6800.RR Lab Sample ID: A2980103

Date Analyzed: 10/04/2002 Time Analyzed: 13:30

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973Q

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB36	A2980104	Q6798.RR	12:55
2	SPL-012	A2980102	Q6804.RR	14:49
3	TPSLP 01-04	A2980101	Q6802.RR	14:14

Comments: _____

METHOD 8260 - TCL VOLATILE ORGANICS
ANALYSIS DATA SHEET

000043

Client No.

vblk36

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2980103

Sample wt/vol: 5.00 (g/mL) G Lab File ID: Q6800.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 10/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	25	U
71-43-2	Benzene	5	U
75-27-4	Bromodichloromethane	5	U
75-25-2	Bromoform	5	U
74-83-9	Bromomethane	10	U
78-93-3	2-Butanone	25	U
75-15-0	Carbon Disulfide	5	U
56-23-5	Carbon Tetrachloride	5	U
108-90-7	Chlorobenzene	5	U
75-00-3	Chloroethane	10	U
67-66-3	Chloroform	5	U
74-87-3	Chloromethane	10	U
124-48-1	Dibromochloromethane	5	U
75-34-3	1,1-Dichloroethane	5	U
107-06-2	1,2-Dichloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
540-59-0	1,2-Dichloroethene (Total)	10	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
100-41-4	Ethylbenzene	5	U
591-78-6	2-Hexanone	10	U
75-09-2	Methylene chloride	5	
108-10-1	4-Methyl-2-pentanone	25	U
100-42-5	Styrene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
127-18-4	Tetrachloroethene	5	U
108-88-3	Toluene	5	U
71-55-6	1,1,1-Trichloroethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
79-01-6	Trichloroethene	5	U
108-05-4	Vinyl acetate	10	U
75-01-4	Vinyl chloride	10	U
1330-20-7	Total Xylenes	15	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS 000044
METHOD BLANK SUMMARY

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: W49078.RR Lab Sample ID: A2B0980802

Instrument ID: I50W-A Date Extracted: 10/07/2002

Matrix: (soil/water) SOIL Date Analyzed: 10/07/2002

Level: (low/med) LOW Time Analyzed: 12:44

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	Matrix Spike Blank	A2B0980801	W49077.RR	10/07/2002
2	SPL-012	A2980102	W49080.RR	10/07/2002
3	TPSLP 01-04	A2980101	W49079.RR	10/07/2002

Comments: _____

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000045

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0980802

Sample wt/vol: 30.33 (g/mL) G Lab File ID: W49078.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
83-32-9	Acenaphthene	330	U
208-96-8	Acenaphthylene	330	U
120-12-7	Anthracene	330	U
56-55-3	Benzo(a)anthracene	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
191-24-2	Benzo(ghi)perylene	330	U
50-32-8	Benzo(a)pyrene	330	U
65-85-0	Benzoic acid	1600	U
100-51-6	Benzyl alcohol	330	U
111-91-1	Bis(2-chloroethoxy) methane	330	U
111-44-4	Bis(2-chloroethyl) ether	330	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	330	U
117-81-7	Bis(2-ethylhexyl) phthalate	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
85-68-7	Butyl benzyl phthalate	330	U
106-47-8	4-Chloroaniline	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-58-7	2-Chloronaphthalene	330	U
95-57-8	2-Chlorophenol	330	U
7005-72-3	4-Chlorophenyl phenyl ether	330	U
218-01-9	Chrysene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
132-64-9	Dibenzofuran	330	U
84-74-2	Di-n-butyl phthalate	330	U
95-50-1	1,2-Dichlorobenzene	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
91-94-1	3,3'-Dichlorobenzidine	650	U
120-83-2	2,4-Dichlorophenol	330	U
84-66-2	Diethyl phthalate	330	U
105-67-9	2,4-Dimethylphenol	330	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0980802

Sample wt/vol: 30.33 (g/mL) G Lab File ID: W49078.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
131-11-3	Dimethyl phthalate	330	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
51-28-5	2,4-Dinitrophenol	1600	U
121-14-2	2,4-Dinitrotoluene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
117-84-0	Di-n-octyl phthalate	330	U
206-44-0	Fluoranthene	330	U
86-73-7	Fluorene	330	U
118-74-1	Hexachlorobenzene	330	U
87-68-3	Hexachlorobutadiene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
67-72-1	Hexachloroethane	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
78-59-1	Isophorone	330	U
91-57-6	2-Methylnaphthalene	330	U
95-48-7	2-Methylphenol	330	U
106-44-5	4-Methylphenol	330	U
91-20-3	Naphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
99-09-2	3-Nitroaniline	1600	U
100-01-6	4-Nitroaniline	1600	U
98-95-3	Nitrobenzene	330	U
88-75-5	2-Nitrophenol	330	U
100-02-7	4-Nitrophenol	1600	U
86-30-6	N-nitrosodiphenylamine	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	330	U
108-95-2	Phenol	330	U
129-00-0	Pyrene	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
95-95-4	2,4,5-Trichlorophenol	790	U

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
ANALYSIS DATA SHEET

000047

Client No.

S BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0980802

Sample wt/vol: 30.33 (g/mL) G Lab File ID: W49078.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 10/07/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/07/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
88-06-2	2,4,6-Trichlorophenol	330	U

METHOD 8081 - TCL PESTICIDES
METHOD BLANK SUMMARY

000048
Client No.

Method Blank

La' Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0977603 Lab File ID: RA20555.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 10/04/2002

Date Analyzed (1): 10/08/2002 Date Analyzed (2): _____

Time Analyzed (1): 20:22 Time Analyzed (2): _____

Instrument ID (1): HP5890-18 Instrument ID (2): _____

GC Column (1): RTXCLPI Dia: 0.32(mm) GC Column (2): _____ Dia: _____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0977601	10/08/2002	
2	Matrix Spike Blk Dup	A2B0977602	10/08/2002	
3	SPL-012	A2980102	10/08/2002	
4	TPSLP 01-04	A2980101	10/08/2002	

Comments: _____

METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

000049

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0977603

Sample wt/vol: 30.36 (g/mL) G Lab File ID: RA20555.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/08/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.6	U
319-84-6	alpha-BHC	1.6	U
319-85-7	beta-BHC	1.6	U
58-89-9	gamma-BHC (Lindane)	1.6	U
9-86-8	delta-BHC	1.6	U
57-74-9	Chlordane	16	U
72-54-8	4,4'-DDD	1.6	U
72-55-9	4,4'-DDE	1.6	U
50-29-3	4,4'-DDT	1.6	U
60-57-1	Dieldrin	1.6	U
959-98-8	Endosulfan I	1.6	U
33213-65-9	Endosulfan II	1.6	U
1031-07-8	Endosulfan Sulfate	1.6	U
72-20-8	Endrin	1.6	U
7421-93-4	Endrin aldehyde	1.6	U
76-44-8	Heptachlor	1.6	U
1024-57-3	Heptachlor epoxide	1.6	U
72-43-5	Methoxychlor	1.6	U
8001-35-2	Toxaphene	33	U

METHOD 8082 - POLYCHLORINATED BIPHENYLS
METHOD BLANK SUMMARY

000050
Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0977902 Lab File ID: SA07311.TX0

Matrix: (soil/water) SOIL Extraction: SONC

Sulfur Cleanup: (Y/N): N Date Extracted: 10/04/2002

Date Analyzed (1): 10/05/2002 Date Analyzed (2): _____

Time Analyzed (1): 15:49 Time Analyzed (2): _____

Instrument ID (1): HP5890-19 Instrument ID (2): _____

GC Column (1): ZB-35 Dia: 0.53 (mm) GC Column (2): _____ Dia: _____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0977901	10/05/2002	
2	SPL-012	A2980102	10/05/2002	
3	TPSLP 01-04	A2980101	10/05/2002	

Comments: _____

METHOD 8082 - POLYCHLORINATED BIPHENYLS
ANALYSIS DATA SHEET

000051

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0977902

Sample wt/vol: 30.16 (g/mL) G Lab File ID: SA07311.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 10/04/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/05/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor 1016	17	U
11104-28-2	Aroclor 1221	17	U
11141-16-5	Aroclor 1232	17	U
53469-21-9	Aroclor 1242	17	U
12672-29-6	Aroclor 1248	17	U
11097-69-1	Aroclor 1254	17	U
11096-82-5	Aroclor 1260	17	U

METHOD 8151 - HERBICIDES FULL LIST
METHOD BLANK SUMMARY

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID: A2B0980703 Lab File ID: MA67513.TX0

Matrix: (soil/water) SOIL Extraction: SEPF

Sulfur Cleanup: (Y/N): N Date Extracted: 10/07/2002

Date Analyzed (1): 10/10/2002 Date Analyzed (2): _____

Time Analyzed (1): 02:00 Time Analyzed (2): _____

Instrument ID (1): HP5890-13 Instrument ID (2): _____

GC Column (1): DB-XLB Dia: ____(mm) GC Column (2): _____ Dia: ____(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	Matrix Spike Blank	A2B0980701	10/09/2002	
2	Matrix Spike Blk Dup	A2B0980702	10/10/2002	
3	SPL-012	A2980102	10/09/2002	
4	TPSLP 01-04	A2980101	10/09/2002	

Comments: _____

METHOD 8151 - HERBICIDES FULL LIST
ANALYSIS DATA SHEET

000053

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A2B0980703

Sample wt/vol: 30.78 (g/mL) G Lab File ID: MA67513.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 10/07/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 10/10/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: _ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
94-75-7	2,4-D	16	U
93-72-1	2,4,5-TP (Silvex)	16	U
93-76-5	2,4,5-T	16	U
1918-00-9	Dicamba	16	U
[illegible]-85-7	Dinoseb	16	U
[illegible]-99-0	Dalapon	16	U
120-36-5	Dichloroprop	16	U
87-86-5	Pentachlorophenol	16	U
1918-02-1	Picloram	16	U

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Antimony	100.0	U	100.0	U	100.0	U	100.0	U	10.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Chromium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Cobalt	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Copper	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Iron	150.0	U	150.0	U	150.0	U	150.0	U	15.000	U	P
Lead	50.0	U	50.0	U	50.0	U	50.0	U	5.000	U	P
Magnesium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Manganese	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Nickel	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Potassium	2000.0	U	2000.0	U	2000.0	U	2000.0	U	200.000	U	P
Selenium	30.0	U	30.0	U	30.0	U	30.0	U	3.000	U	P
Silver	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Sodium	1000.0	U	1000.0	U	1000.0	U	1000.0	U	100.000	U	P
Thallium	60.0	U	60.0	U	60.0	U	60.0	U	6.000	U	P
Vanadium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Zinc	10.0	U	10.0	U	10.0	U	10.0	U	1.062		P

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	200.0	U			P
Antimony			100.0	U	100.0	U	100.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			10.0	U	10.0	U	10.0	U			P
Beryllium			5.0	U	5.0	U	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			1000.0	U	1000.0	U	1000.0	U			P
Chromium			20.0	U	20.0	U	20.0	U			P
Cobalt			20.0	U	20.0	U	20.0	U			P
Copper			20.0	U	20.0	U	20.0	U			P
Iron			150.0	U	150.0	U	150.0	U			P
Lead			50.0	U	50.0	U	50.0	U			P
Magnesium			200.0	U	200.0	U	200.0	U			P
Manganese			10.0	U	10.0	U	10.0	U			P
Nickel			20.0	U	20.0	U	20.0	U			P
Potassium			2000.0	U	2000.0	U	2000.0	U			P
Selenium			30.0	U	30.0	U	30.0	U			P
Silver			10.0	U	10.0	U	10.0	U			P
Sodium			1000.0	U	1000.0	U	1000.0	U			P
Thallium			60.0	U	60.0	U	60.0	U			P
Vanadium			10.0	U	10.0	U	10.0	U			P
Zinc			10.0	U	10.0	U	10.0	U			P

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U					P
Antimony			100.0	U	100.0	U					P
Arsenic			10.0	U	10.0	U					P
Barium			10.0	U	10.0	U					P
Beryllium			5.0	U	5.0	U					P
Cadmium			5.0	U	5.0	U					P
Calcium			1000.0	U	1000.0	U					P
Chromium			20.0	U	20.0	U					P
Cobalt			20.0	U	20.0	U					P
Copper			20.0	U	20.0	U					P
on			150.0	U	150.0	U					P
Lead			50.0	U	50.0	U					P
Magnesium			200.0	U	200.0	U					P
Manganese			10.0	U	10.0	U					P
Nickel			20.0	U	20.0	U					P
Potassium			2000.0	U	2000.0	U					P
Selenium			30.0	U	30.0	U					P
Silver			10.0	U	10.0	U					P
Sodium			1000.0	U	1000.0	U					P
Thallium			60.0	U	60.0	U					P
Vanadium			10.0	U	10.0	U					P
Zinc			10.0	U	10.0	U					P

BLASLAND BOUCK & LEE, INC.

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BLANKS

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Thallium	60.0	U	60.0	U	60.0	U	60.0	U				P

STL BUFFALO

BLASLAND BOUCK & LEE, INC.

-3-

BLANKS

Contract: NY02-222

Lab Code: STL BFLO Case No.: _____ SAS No.: _____ SDG NO.: A02-9801

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.020	U	CV

METHOD 8260 - TCL VOLATILE ORGANICS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

b Name: STL Buffalo Contract: _____ Labsampid: A2C0005451

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): Q6794.RR Date Analyzed: 10/04/2002

Instrument ID: HP5973Q Time Analyzed: 11:44

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	184511		6.76		126017		9.19		357801		4.21	
	UPPER LIMIT	369022		7.26		252034		9.69		715602		4.71	
	LOWER LIMIT	92256		6.26		63009		8.69		178901		3.71	
	CLIENT SAMPLE												
1	MSB36	180432		6.76		114918		9.19		345092		4.22	
2	SPL-012	176189		6.76		108899		9.19		340831		4.22	
3	TPSLP 01-04	175923		6.76		108101		9.19		340178		4.22	
4	vblk36	171871		6.76		107742		9.19		335209		4.22	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

ab Name: STL Buffalo Contract: _____ Labsampid: A2C0005435

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): W49071.RR Date Analyzed: 10/07/2002

Instrument ID: I50W-A Time Analyzed: 07:20

		IS1 (ANT) AREA	#	RT	#	IS2 (CRY) AREA	#	RT	#	IS3 (DCB) AREA	#	RT	#
	12 HOUR STD	1478844		15.82		2178230		26.60		795989		8.10	
	UPPER LIMIT	2957688		16.32		4356460		27.10		1591978		8.60	
	LOWER LIMIT	739422		15.32		1089115		26.10		397995		7.60	
	CLIENT SAMPLE												
1	Matrix Spike Blank	1284816		15.82		1824580		26.58		690623		8.10	
2	S BLANK	1340660		15.82		1843601		26.58		729054		8.09	
3	SPL-012	1419852		15.81		2141861		26.57		764667		8.10	
4	TPSLP 01-04	1444934		15.81		2192952		26.58		761365		8.09	

		AREA UNIT QC LIMITS	RT QC LIMITS
1 (ANT) =	Acenaphthene-D10	(50-200)	-0.50 / +0.50 min
IS2 (CRY) =	Chrysene-D12	(50-200)	-0.50 / +0.50 min
IS3 (DCB) =	1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

b Name: STL Buffalo Contract: _____ Labsampid: A2C0005435

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): W49071.RR Date Analyzed: 10/07/2002

Instrument ID: I50W-A Time Analyzed: 07:20

		IS4 (NPT) AREA	#	RT	#	IS5 (PHN) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	2922581		11.26		2326104		19.64		2067882		30.08	
	UPPER LIMIT	5845162		11.76		4652208		20.14		4135764		30.58	
	LOWER LIMIT	1461291		10.76		1163052		19.14		1033941		29.58	
	CLIENT SAMPLE												
1	Matrix Spike Blank	2600057		11.25		2034665		19.62		1745653		30.07	
2	S BLANK	2706339		11.25		2107723		19.62		1808034		30.06	
3	SPL-012	2823476		11.24		2266836		19.62		2041653		30.06	
4	TPSLP 01-04	2867903		11.25		2306173		19.62		2213902		30.06	

		AREA UNIT QC LIMITS	RT QC LIMITS
IS4 (NPT) =	Naphthalene-D8	(50-200)	-0.50 / +0.50 min
IS5 (PHN) =	Phenanthrene-D10	(50-200)	-0.50 / +0.50 min
IS6 (PRY) =	Perylene-D12	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A2980102	SPL-012	10/01/2002	15:30	10/03/2002	17:15
A2980101	TPSLP 01-04	09/30/2002	15:00	10/03/2002	17:15

METHODS SUMMARY

Job#: A02-9801

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
METHOD 8151 - HERBICIDES Full list	SW8463 8151
Aluminum - Total	SW8463 6010
Antimony - Total	SW8463 6010
Arsenic - Total	SW8463 6010
Barium - Total	SW8463 6010
Beryllium - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Chromium - Total	SW8463 6010
Cobalt - Total	SW8463 6010
Copper - Total	SW8463 6010
Iron - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Manganese - Total	SW8463 6010
Mercury - Total	SW8463 7471
Nickel - Total	SW8463 6010
Potassium - Total	SW8463 6010
Selenium - Total	SW8463 6010
Silver - Total	SW8463 6010
Sodium - Total	SW8463 6010
Thallium - Total	SW8463 6010
Vanadium - Total	SW8463 6010
Zinc - Total	SW8463 6010

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-9801

STL Project#: NY2A8960
Site Name: Blasland Bouck & Lee, Inc.

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-9801
Sample Cooler(s) were received at the following temperature(s); 6 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Methylene Chloride was detected in the Method Blank (VBLK36) at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

The percent difference for the continuing calibration verification of Toxaphene exceeded the quality control limit of less than or equal to 15 percent. The response of the Toxaphene standard was high, leading to positive bias. There were no sample hits for Toxaphene; no corrective action was indicated.

SEVERN TRENT SERVICES

STL Buffalo

Metals Data

The recovery of the 3rd CCV fell below the quality control limits for all analytes. However, all samples were bracketed by compliant CCV's, therefore, no correvtive action was necessary.

The analyte Zinc was detected in the Method Blank at a level above the project established reporting limit. However, all samples had levels of Zinc greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

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The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, s verified by the following signature."

Susan L. Mazur

Susan L. Mazur
Laboratory Director

10/11/97

Date