SUPPLEMENTAL PHASE II
ENVIRONMENTAL SITE ASSESSMENT REPORT
ADDENDUM
ST. ALBANS MUNICIPAL PARKING LOT #1 &
FORMER BRICKYARD TAVERN (RFA 08149)
KINGMAN, FEDERAL, LAKE & N. MAIN STREETS
ST. ALBANS, VERMONT 05478

Prepared for:

Northwest Regional Planning Commission
155 Lake Street
St. Albans, VT 05478
Contact: Ms. Greta Brunswick

June 30, 2010

Prepared by:

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Senior Associate

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EXECUTIVE SUMMARY

The professional hydrogeologic and environmental consulting firm of Leggette, Brashears & Graham, Inc. (LBG) is pleased to present the dissolved metals results of the recent Supplemental Phase II Environmental Site Investigation at the St. Albans Municipal Parking Lot #1 and Former Brickyard Tavern property located along Kingman, Federal, Lake and North Main Streets in the City of St. Albans, Vermont (the Site). LBG was notified by the Northwest Regional Planning Commission (NRPC) of their selection to complete the Supplemental work during the summer of 2009 following the submittal of a work plan dated April 29, 2009. Prior to entering into an agreement with the NRPC the project was delayed over the summer of 2009. LBG entered into an agreement to conduct the work in late October 2009.

Analytical results show total iron detected above the Vermont Groundwater Enforcement Standards (VGES) across the Site and total manganese detected above the VGES in several wells on-Site. Low levels of total molybdenum were detected, although concentrations did not exceed the VGES. Therefore, dissolved iron and manganese analyses were requested for specific samples with elevated total metals.

Filtered groundwater results show dissolved iron concentrations below the VGES and dissolved manganese concentrations remain above the VGES in several wells on-Site. Potential sources of iron and manganese on-Site may be the past use of a portion of the Site as a foundry, urban fill, and/or local geology. Low levels of total molybdenum were detected, although concentrations did not exceed the VGES.

LBG recommends implementing the recommendations set forth in LBG's recent *Supplemental Phase II Environmental Site Assessment Report*, dated March 12, 2010.

1.0 INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) has prepared submittal to serve as an addendum to the recently submitted *Supplemental Phase II Site Investigation* for the Former Brickyard Tavern and Municipal Parking Lot No. 1 in St. Albans, Vermont (the Site). This addendum includes the dissolved metals results for the January 2010 groundwater sampling event, which were received by LBG on March 12, 2010.

2.0 GROUNDWATER SAMPLE COLLECTION

On January 26th and 27th, prior to sample collection, groundwater was purged from the wells in order to obtain a representative groundwater sample using a low flow submersible pump. Once the stabilization of parameters such as temperature, turbidity, specific conductance, oxidation reduction potential and pH occurred, samples were collected.

Purge water was discharged to the ground surface. The groundwater samples were placed in the appropriate laboratory-preserved and -provided glassware. All samples were analyzed select metals (iron, manganese and molybdenum). In addition, samples from all wells were filtered using an in-line 0.45 micron filter for dissolved metals analysis, which was to be conducted if total metals were found to exceed the VGES.

Sample glassware included 250 milliliter plastic containers preserved with nitric acid (HNO_3) for metals analysis. A field duplicate (labeled DUP2) and matrix spike (MS) and duplicate samples were collected for Quality Assurance/Quality Control (QA/QC) purposes. All samples were transported on ice, under Chain-of-Custody to TestAmerica of South Burlington, Vermont for analysis.

3.0 GROUNDWATER QUALITY RESULTS

Groundwater data were compared to the VGES. The complete laboratory report is provided as ***Attachment 1***. LBG requested that the laboratory provide "j" values to determine if multiple compounds were present above the detection limits, but below the quantitation limits (QLs) for those compounds with QLs exceeding applicable standards.

Total iron was detected in all sampled on-Site wells at concentrations exceeding the VGES while total manganese concentrations exceeded the VGES in the majority of the wells sampled. Molybdenum was detected above the QLs in each sample analyzed; however, concentrations were not observed to exceed the VGES. Since concentrations of total iron and manganese exceeded the VGES, additional analysis of dissolved iron and manganese were requested.

The results of the total and dissolved metals analyses of the groundwater samples are summarized in the table below.

Well Identification	Iron	Iron (Dissolved)	Manganese	Manganese (Dissolved)	Molybdenum	Molybdenum (Dissolved)
MW-1	***644***	49.1	***6,410***	***6,700***	6.4	NT
MW-2	***3,780***	176	80.2	NT	19.0	NT
MW-10	***2,840***	60.7	173	NT	7.9	NT
MW-13	***768***	<27.7	56.6	NT	2.5	NT
MW-14	***3,140***	<27.7	***2,430***	99.5	14.5	NT
MW-101	***4,020***	55.0	***447***	***388***	7.5	NT
MW-102	***2,130***	110	***1,340***	***1,370***	12.8	NT
MW-103	***855***	41.9	***909***	***984***	5.7	NT
MW-104	***3,300***	119	***497***	***493***	16.6	NT
DUP2	***1,260***	<27.7	94.3	NT	4.4	NT
Concentration in µg/L						
VGES	**300***	**300***	**300**	**300**	**40**	**40**

Notes: 1. VGES - Vermont Groundwater Enforcement Standard; bold and italicized values in heavily outlined cells exceed the VGES.
2. Samples were analyzed by US EPA Method 6010B for metals unless noted otherwise.
3. NT - not tested; ND - not detected above method detection limits.
4. Concentration is reported in units of ug/L - micrograms per liter - unless noted otherwise.
5. DUP2 – duplicate sample collected from MW-13 for QA/QC purposes.
* Value represents Vermont Secondary Groundwater Quality Standard.

4.0 LABORATORY QUALITY CONTROL

The QA/QC sample results are reviewed to determine if the acceptance criteria was met. The method blank is evaluated for contamination introduced at the laboratory and spikes are used to evaluate biases. To evaluate precision, duplicate samples are used. Field duplicates are used for evaluation of precision after sample collection, and laboratory duplicates are used for assessing analytical precision. The field duplicates will ensure precision and that the results are accurate and therefore, the data is practical for comparison to the VGES. During data validation, any corrective actions taken, any samples affected, and the potential effect of the actions on the validity of the data are documented.

LBG collected groundwater samples for MS/Duplicate of MW-14 for dissolved metals analysis. The MS recoveries for dissolved iron were reported within the control limits; however, the relative percent differences between the MS and Duplicate sample is reported outside acceptance limits indicating the potential for uncertainty. The dissolved iron results were well below the VGES for all samples; still, the dissolved iron concentration for MW-2 should be used cautiously as this result was nearest the VGES.

Field duplicate samples were collected for dissolved metals analysis. The RPD between MW-13 and DUP2 was not calculated for dissolved iron since the results were below QLs.

Method blanks, calibration and laboratory control samples were reported without exceptions.

5.0 DATA EVALUATION AND USABILITY

In addition, all laboratory data has been validated for the following parameters prior to acceptance:

- Correct sample identification;
- Correct reporting limits;
- Analysis within the method specified holding time;
- Acceptable detection limit multipliers;
- RPD between a sample and its duplicate, where applicable;
- Acceptable matrix spike and spike duplicates, where applicable; and,
- Acceptable surrogate recoveries, where applicable.

Copies of the LBG Data Validation Check Lists are provided as ***Attachment 2***.

All samples were received by the laboratory at 4±2° C within 48 hours of sample collection.

All field notes and data tables were reviewed to check for duplicate re-keying of data and to identify data entry errors prior to inclusion in this submittal. In addition, this entire addendum has undergone internal LBG peer review.

Following our collection, testing and evaluation of all the data gathered, we believe the data to be valid and can be relied upon.

6.0 FINDINGS

Based on this supplemental investigation, LBG summarizes the following findings:

- Total iron was detected at concentrations exceeding the VGES in all wells sampled, while dissolved iron concentrations were below the VGES.

- Total manganese was detected at concentrations exceeding the VGES in most wells and dissolved concentrations remained above the VGES in all samples tested with the exception of MW-14.

- Low levels of total molybdenum were detected, although concentrations did not exceed the VGES.

7.0 CONCLUSIONS & RECOMMENDATIONS

Analytical results show total iron detected above the VGES across the Site and manganese detected above the VGES in several wells on-Site. Filtered groundwater results indicate dissolved manganese concentrations detected above the VGES in several wells on-Site. Potential sources of iron and manganese on-Site may be the past use of a portion of the Site as a foundry, urban fill, and/or local geology. The bedrock in the area is described as Morses line formation – a calcareous and non-calcareous slate with local thin lenses of limestone and dolomite (Doll, 1961). According to the State of Vermont, Agency of Natural Resources, Geology and Mineral Resources Division, Vermont Geological Survey website "Vermont slates are generally black, green, purple or mottled, depending on the amounts of chlorite (green) and iron (red to purple) they contain" (State of Vermont). Additionally, "natural dolomites often contain impurities such as Mn, Fe, ..." (Wright et al., 2002), while the urban fill containing any remnants from previous foundry operations on-Site can cause elevated iron particles from corrosion. Manganese concentrations detected on-Site appear to fall within the levels observed by the USGS, although manganese concentrations in groundwater were detected above the VGES (Shacklette and Boerngenm, 1984 and Gustavsson et al., 2001).

Contaminant concentrations are influenced by a multitude of environmental conditions, such as oxidation-reduction reactions, acid-base reactions, solution-precipitation reactions and precipitation recharge events among others. Disturbance of the subsurface materials may also alter the geochemistry of certain contaminants resulting in fluctuating concentrations. All newly installed wells exhibited concentrations of dissolved manganese above the VGES, which may be attributed to the recent disturbance of the subsurface materials.

The Site is served by municipal water, so the use of and exposure to area groundwater is unlikely. The proposed future use of the Site will not increase exposure to potential subsurface contaminants as long as there is appropriate isolation from the subsurface contaminates. During construction activities, exposed soil and groundwater should be managed appropriately.

Additionally, LBG recommends implementing the recommendations set forth in LBG's recent *Supplemental Phase II Environmental Site Assessment Report*, dated March 12, 2010.

Groundwater sampling was conducted using low stress methods during both rounds of sampling, and therefore provides data representative of groundwater concentrations at the time of sampling. However, contaminant concentrations particularly inorganic constituents may fluctuate in groundwater and are governed by a host of environmental conditions, such as oxidation-reduction reactions, acid-base reactions, solution-precipitation reactions and precipitation recharge events among others. Disturbance of the subsurface materials may alter the geochemistry of certain contaminants resulting in fluctuating concentrations. Concentrations will likely fluctuate seasonally, as environmental conditions on-Site alter the solubility of contaminants, and may exceed the VGES on occasion.

8.0 LIMITATIONS

No attempt was made to determine the compliance of present or former owners or operators of the Site with federal, state, or municipal environmental or land use laws or regulations.

Due to the fact that geological and soil formations are inherently random, variable and indeterminate (heterogeneous) in nature, the professional services and opinions provided by LBG under this agreement are not guaranteed to be a representation of complete Site conditions, which are subject to change with time as a result of natural or man-made processes. Although the services are extensive, findings and conclusions are limited to and by the information obtained. LBG makes no expressed or implied representations or warranties regarding any changes in condition of the premises after the dates of the respective sampling events. In addition, further subsurface investigatory methods are available that could further define the soil and groundwater conditions. Any qualitative or quantitative information regarding the Site that was not available to LBG at the time of this assessment may result in a modification of the representations made in this report.

9.0 REFERENCES

Doll, C.G; Cady, W.M.; Thompson, J.B.; Billings, M.D. *Centennial Geological Map of Vermont: Vermont Geological Survey, Scale 1:250,000.* 1961.

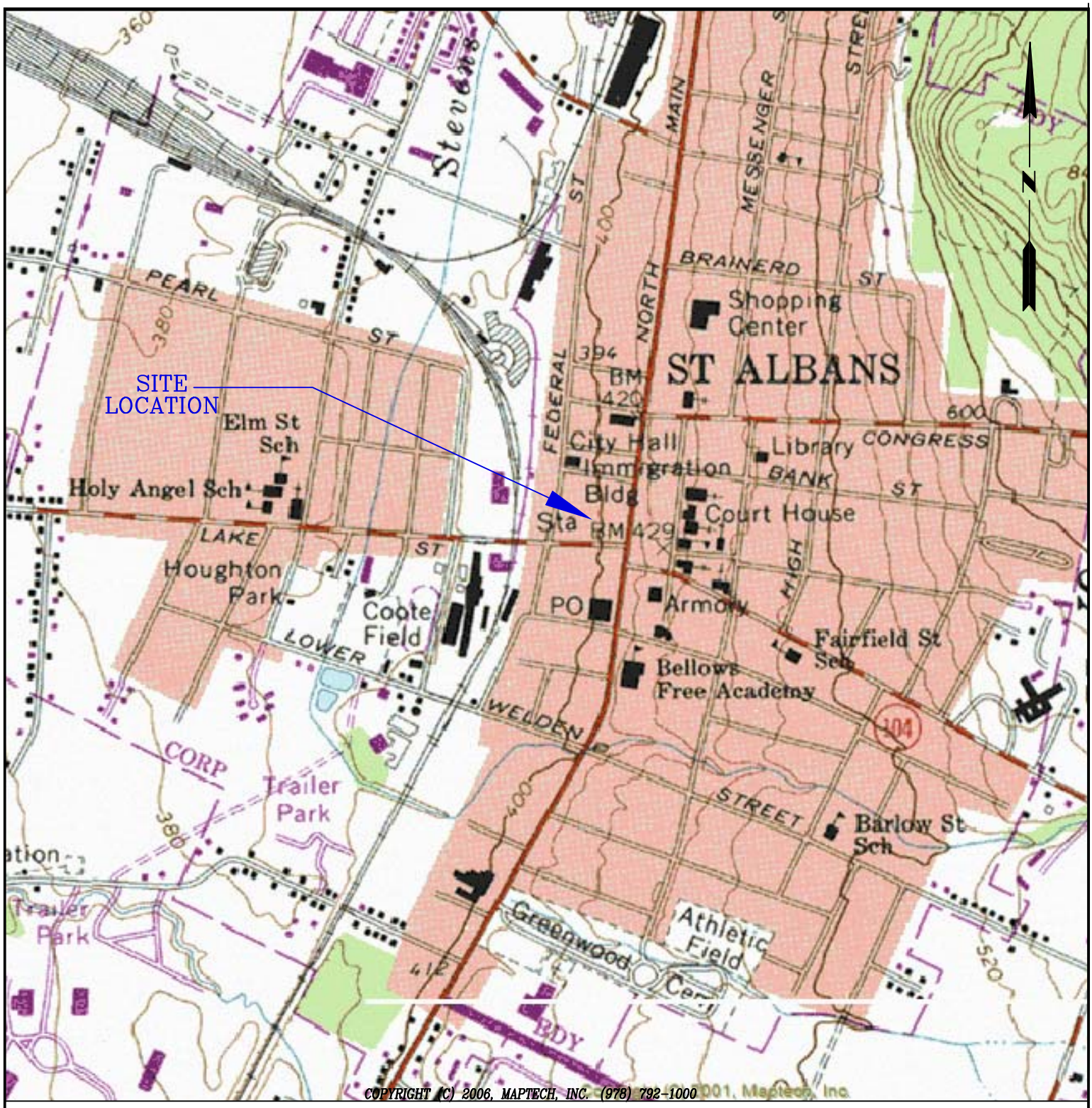
Gustavsson, N., B. Bølviken, D.B. Smith, and R.C. Severson. *Geochemical Landscapes of the Conterminous United States – New Map Presentations for 22 Elements*. USGS Professional Paper 1648. November 2001. < http://pubs.usgs.gov/pp/p1648/p1648.pdf >

Shacklette, H.T. and Boerngenm, J.G. *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States*. USGS Professional Paper 1270. 1984. <http://pubs.usgs.gov/pp/1270/pdf/PP1270_508.pdf >

State of Vermont, Agency of Natural Resources, Geology and Mineral Resources Division, Vermont Geological Survey. *Geology of Vermont, Vermont State Rocks and the Vermont Mineral.* <http://www.anr.state.vt.us/dec/geo/staterx.htm> March 11, 2010.

Wright, Kate, Randall T. Cygan and Ben Slater. *Impurities and nonstoichiometry in the bulk and on the (10$\bar{1}$4) surface of dolomite*. Geochimica et Cosmochimica Acta Volume 66, Issue 14, 15 July 2002, Pages 2541-2546.

FIGURES



0 1,000

SCALE IN FEET

SOURCE: United States Geological Survey 7.5 Minute Topographic Map for the St. Albans, VT Quadrangle

ST. ALBANS MUNICIPAL LOT #1 &
FORMER BRICKYARD TAVERN
ST. ALBANS, VERMONT

SITE LOCATION MAP

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Services
76 Pearl Street, Suite 203
Essex Junction, VT 05452
(802) 288-9600

FILE:Q:\EnvProj\NRPC\St.A	DRAWN BY: DDR	CHECKED BY: JRD	DATE: 02/03/10
			FIGURE: 1

KINGMAN STREET

FEDERAL STREET

NORTH MAIN STREET

LAKE STREET

FORMER BRICKYARD TAVERN

MW-1 90.56

MW-2 84.23

MW-13 84.67

MW-14 82.83

UST 4

MW-102 94.00

MW-103 91.45

MW-104 91.68

MW-101 94.76

MW-9

GRAVEL

SIDEWALK

EATON'S

CHOW BELLA

DEBRIS PILE

UST 3

FORMER VARIETY STORE

MW-10 85.75

UST 1

ROYAL ORDER OF THE MOOSE

GRAVEL PARKING LOT

MW-12 (DESTROYED)

UST 2

SALON

TD BANK

P

T

LEGEND

- DUMPSTER (APPROXIMATE)
- ABANDONED UST (APPROXIMATE)
- SUSPECT ABANDONED UST (APPROXIMATE)
- ANOMALY (NOT CONFIRMED BY LBG AS UST, LOCATION APPROXIMATE)
- BURIED WATER LINE (APPROXIMATE)
- BURIED NATURAL GAS LINE (APPROXIMATE)
- BURIED POWER LINE (APPROXIMATE)
- PROPERTY LINE (APPROXIMATE)
- GUARD RAIL (APPROXIMATE)
- PAD-MOUNTED TRANSFORMER (APPROXIMATE)
- PROPANE AST (APPROXIMATE)
- GROUNDWATER MONITOR WELL WITH WELL CASING ELEVATION REFERENCED TO A TBM OF 100' (99.15')
- FORMER BUILDING (APPROXIMATE)
- UTILITY POLE (APPROXIMATE)
- OVERHEAD LINE (APPROXIMATE)
- FIRE HYDRANT (TBM)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

REFERENCES:

1. ELEVATION AND DISTANCE SURVEY CONDUCTED BY LBG ON JANUARY 26, 2010.
2. GOOGLE EARTH (C) 2005.
3. 1926, 1946 & 1959 SANBORN FIRE INSURANCE MAPS.

NO.	DATE	DESCRIPTION	BY

ST. ALBANS MUNICIPAL LOT #1 & FORMER BRICKYARD TAVERN ST. ALBANS, VERMONT

SITE PLAN

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Groundwater and Environmental Services
76 Pearl Street, Suite 203
Essex Junction, VT 05452
(802) 288-9600

DATE: 02/02/10

FILE:Q:\EnvProj\NRPC\St.A | DRAWN BY: DDR | CHECKED BY: JRD | FIGURE: 2

APPENDIX 1

TestAmerica
South Burlington, VT

Sample Data Summary Package

135744

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

March 11, 2010

Ms. Deirdra D. Ritzer
Leggette, Brashears & Graham
76 Pearl Street
Suite 203
Essex Junction, VT 05452

Re: Laboratory Project No. 29000
Case: STALBANS; SDG: 135744

Dear Ms. Ritzer:

Enclosed are the analytical results for the samples that were received by TestAmerica Burlington on February 24th, 2010. Laboratory identification numbers were assigned, and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 02/24/10 ETR No: 135744		
819024	MW-1F	01/26/10	FILTRATE
819026A	MW-10F	01/26/10	FILTRATE
819027	MW-101F	01/26/10	FILTRATE
819028	MW-2F	01/27/10	FILTRATE
819029A	MW-13F	01/27/10	FILTRATE
819030	MW-14F	01/27/10	FILTRATE
819030DP	MW-14FREP	01/27/10	FILTRATE
819030MD	MW-14FMSD	01/27/10	FILTRATE
819031	MW-102F	01/27/10	FILTRATE
819032	MW-103F	01/27/10	FILTRATE
819033	MW-104F	01/27/10	FILTRATE
819034A	DUP2F	01/27/10	FILTRATE

Documentation of the condition of the samples at the time of their receipt and any exception to the laboratory's Sample Acceptance Policy is documented in the Sample Handling section of this submittal.

Iron and Manganese SW-846 6010B Select
A duplicate analysis was performed on the digestate of sample MW-14F. The relative percent difference of manganese exceeded the control criteria. The laboratory suspects these issues to be indicative of the sample matrix itself.

Any reference within this report to Severn Trent Laboratories, Inc. or STL, should be understood to refer to TestAmerica Laboratories, Inc. (formerly known as Severn Trent Laboratories, Inc.)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

The analytical results associated with the samples presented in this test report were generated under a quality system that adheres to requirements specified in the NELAC standard. Release of the data in this test report and any associated electronic deliverables is authorized by the Laboratory Director's designee as verified by the following signature.

If there are any questions regarding this submittal, please contact me at 802 660-1990.

Sincerely,

Sara Goff
Project Manager

TestAmerica Burlington Data Qualifier Definitions

Organic

U: Compound analyzed but not detected at a concentration above the reporting limit.

J: Estimated value.

N: Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds (TICs) where the identification of a compound is based on a mass spectral library search.

P: SW-846: The relative percent difference for detected concentrations between two GC columns is greater than 40%. Unless otherwise specified the higher of the two values is reported on the Form I.

CLP SOW: Greater than 25% difference for detected concentrations between two GC columns. Unless otherwise specified the lower of the two values is reported on the Form I.

C: Pesticide result whose identification has been confirmed by GC/MS.

B: Analyte is found in the sample and the associated method blank. The flag is used for tentatively identified compounds as well as positively identified compounds.

E: Compounds whose concentrations exceed the upper limit of the calibration range of the instrument for that specific analysis.

D: Concentrations identified from analysis of the sample at a secondary dilution.

A: Tentatively identified compound is a suspected aldol condensation product.

X,Y,Z: Laboratory defined flags that may be used alone or combined, as needed. If used, the description of the flag is defined in the project narrative.

Inorganic/Metals

E: Reported value is estimated due to the presence of interference.

N: Matrix spike sample recovery is not within control limits.

* Duplicate sample analysis is not within control limits.

B: The result reported is less than the reporting limit but greater than the instrument detection limit.

U: Analyte was analyzed for but not detected above the reporting limit.

Method Codes:

P ICP-AES
MS ICP-MS
CV Cold Vapor AA
AS Semi-Automated Spectrophotometric

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

COPY - ORIGINAL ON FILE
SDG # 135738 ETR # 135738

CHAIN OF CUSTODY RECORD

Report to:
Company: LBG
Address: 716 Pearl Street, Ste 203
Essex Jct, VT 05452
Contact: Deirdra Ritzer
Phone: 802-288-9600 x103
Fax: 802-288-9881
Contract/ Quote: St. Albans Brownfield

Invoice to:
Company: LBG
Address: ← same
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Deirdra Ritzer
Sampler's Signature: Deirdra Ritzer

Proj. No. 2009. Bricky.00
Project Name: St. Albans Municipal Lot/Brickyard Tavern

ANALYSIS REQUESTED: 8270 | Total Metals (Fe, Mn, Mo) | Dissolved Metals (Fe, Mn, Mo) HOLD | 8260

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2]: VOA	A/G 1 Lt.	250 ml	P/O	8270	Total Metals (Fe, Mn, Mo)	Dissolved Metals (Fe, Mn, Mo) HOLD	8260								Lab/Sample ID (Lab Use Only)
W	1/26/10	1435		X	MW-1		2			X											
↓	↓	↓		↓	MW-1			1			X										
		↓			MW-1			1				X									
		0945			MW-9		2			X											
		↓			MW-9			1			X										
					MW-9			1				X									
		↓			MW-9	3							X								
		1300			MW-10		2			X											
		↓			MW-10			1			X										
↓	↓	↓		↓	MW-10			1				X									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Deirdra Ritzer	1/28/10	1105	[signature]	01/28/10	1100
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: See instructions on page 5.

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other _____

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

COPY - ORIGINAL ON FILE
SDG # 135736 ETR # 135738 2 of 5 pages

CHAIN OF CUSTODY RECORD

Report to:
Company: LBG
Address: 76 Pearl St, Ste 203
Essex Jct, VT 05452
Contact: Deirdra Ritzer
Phone: 802-288-9600 x 103
Fax: 802-288-9881
Contract/ Quote: St. Albans Brownfield

Invoice to:
Company: LBG
Address: ← same
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Deirdra Ritzer
Sampler's Signature: Deirdra Ritzer

Proj. No. 2009. BRKY.00
Project Name: St. Albans Municipal Lot / Brickyard Tavern

ANALYSIS REQUESTED: 8270 | Total Metals (Fe, Mn, Mo) | Dissolved Metals (Fe, Mn, Mo) HOLD | 8260

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No/Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	8270	Total Metals (Fe, Mn, Mo)	Dissolved Metals (Fe, Mn, Mo) HOLD	8260								Lab/Sample ID (Lab Use Only)
W	1/26/10	1105		X	MW-101		2			X											
↓	↓	↓		↓	MW-101			1			X										
					MW-101			1				X									
					MW-101	3							X								
	↓	↓			MW-101 MS/MSD		4	~~2~~ 2		X											
	1/27/10	1715			MW-2		2			X											
					MW-2			1			X										
		↓			MW-2			1				X									
		1355			MW-13		2			X											
↓	↓	↓		↓	MW-13			1			X										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Deirdra Ritzer	1/28/10	1105	[signature]	1/28/10	1100
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: See instructions on page 5.

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix: WW - Wastewater, W - Water, S - Soil, L - Liquid, A - Air bag, C - Charcoal Tube, SL - Sludge, O - Oil
[2]Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

COPY - ORIGINAL ON FILE
SDG # 135738 ETR # 135738

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Invoice to:
Company: LBG
Address: ← same
Contact:
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Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Deirdra Ritzer
Sampler's Signature: Deirdra Ritzer

Proj. No. 2009. BRICKY. 00
Project Name: St. Albans Municipal Lot / Brickyard Tavern

ANALYSIS REQUESTED: 8270 | Total Metals (Fe, Mn, Mo) | Dissolved Metals (Fe, Mn, Mo) HOLD | 8260

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	8270	Total Metals (Fe, Mn, Mo)	Dissolved Metals (Fe, Mn, Mo) HOLD	8260	Lab/Sample ID (Lab Use Only)
W	1/27/10	1355		X	MW-13			1				X		
		1520			MW-14		2			X				
					MW-14			1			X			
					MW-14			1				X		
					MW-14 MS/DUP			2			X			
					MW-14 MS/DUP			2				X		
		1020			MW-102		2			X				
					MW-102			1			X			
					MW-102			1				X		
					MW-102	3							X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Deirdra Ritzer	1/28/10	1105	[signature]	01/28/10	1100
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: See instructions on page 5.

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air bag C - Charcoal Tube SL - Sludge O - Oil
[2]Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Burlington
30 Community Drive, Suite 11
South Burlington, VT 05403 Tel: 802 660 1990

COPY - ORIGINAL ON FILE
SCOW# 135736 BTR # 135738 4 of 5 pages

CHAIN OF CUSTODY RECORD

Report to:
Company: LBG
Address: 76 Pearl St, Ste 203
Essex Jct, VT 05452
Contact: Deirdra Ritzer
Phone: 802-288-9600 x103
Fax: 802-288-9881
Contract/ Quote: St. Albans Brownfield

Invoice to:
Company: LBG
Address: ← Same
Contact:
Phone:
Fax:

Lab Use Only
Due Date:

Temp. of coolers when received (C°): 1 | 2 | 3 | 4 | 5

Custody Seal N / Y
Intact N / Y

Screened For Radioactivity ☐

Sampler's Name: Deirdra Ritzer
Sampler's Signature: Deirdra Ritzer

Proj. No. 2009. BRICKY.00
Project Name: St. Albans Municipal Lot / Brickyard Tavern

ANALYSIS REQUESTED: 8270 HOLD; Total Metals (Fe, Mn, Mo); Dissolved Metals (Fe, Mn, Mo); 8260

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	VOA	A/G 1 Lt.	250 ml	P/O	8270 HOLD	Total Metals (Fe, Mn, Mo)	Dissolved Metals (Fe, Mn, Mo)	8260								Lab/Sample ID (Lab Use Only)
W	1/27/10	1220		X	MW-103		2			X											
					MW-103			1			X										
					MW-103			1				X									
					MW-103	3							X								
		0845			MW-104		2			X											
					MW-104			1			X										
					MW-104			1				X									
					MW-104	3							X								
	1/26/10	1212			DUP	3							X								
	1/27/10	1313			DUP2			1			X										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Deirdra Ritzer	1/28/10	1105	[signature]	01/28/10	1100
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Remarks: See instructions on page 5.

Client's delivery of samples constitutes acceptance of TestAmerica terms and conditions contained in the Price Schedule.

[1]Matrix: WW - Wastewater, W - Water, S - Soil, L - Liquid, A - Air bag, C - Charcoal Tube, SL - Sludge, O - Oil
[2]Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other _____

TestAmerica Cannot accept verbal changes. Please Fax written changes to (802) 660-1919

TAL-8234(1007)

Burlington
30 Community Drive
Suite 11
South Burlington, VT 5403
phone 802.660.1990 fax 802.660.1919

COPY - ORIGINAL ON FILE
SDG # 135738 ETR # 135738

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Deirdra Ritzer	Site Contact:	Date: 1/28/10	COC No:
Leggette, Brashears & Graham	Tel/Fax: 802-288-9600 x103	Lab Contact: Sara Goff	Carrier:	5 of 5 COCs
76 Pearl Street, Suite 203	Analysis Turnaround Time			Job No.
Essex Junction, VT 05452	Calendar (C) or Work Days (W) Standard			
(802) 288-9600 Phone	TAT if different from Below Standard			
(802) 288-9881 FAX	☐ 2 weeks			SDG No.
Project Name: St. Albans Municipal Lot / Brickyard Tavern	☐ 1 week			
Site: St. Albans Brownfields Project	☐ 2 days			
PO# 2009.BRICKY.00	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	8270	Total Metals (Fe, Mn, Mo)	Dissolved Metals (Fe, Mn, Mo)	8260	Sample Specific Notes:
DUP2	1/27/10	1313	grab	W	1	X			X		HOLD
DUP1	1/27/10	1111	grab	W	2		X				
Trip Blank	1/22/10			W	2					X	provided by lab

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 1 | 1,4 | 1,4 | 2

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☒

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: Please hold samples for dissolved metals analysis. If Total Metals results are above VT Groundwater Enforcement Standards, then Dissolved metals shall be analyzed for that sample. Please report "J" values for all compounds with detections below the reporting limit, but above the method detection limit. All samples submitted for dissolved metals analysis have been field filtered.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Deirdra Ritzer	LBG	1/28/10 1105	[signature]	TA-Burlington	01/28/10-1100
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Data Summary – Metals

USEPA-CLP FORMS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

SOW No.: _____

EPA Sample No.	Lab Sample ID.
DUP2F	819034A
MS-14F	819030
MS-14FD	819030D
MS-14FS	819030S
MS-2F	819028
MW-101F	819027
MW-102F	819031
MW-103F	819032
MW-104F	819033
MW-10F	819026A
MW-13F	819029A
MW-1F	819024

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

DUP2F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819034A

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	27.7	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MS-14F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819030

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	27.7	U		P
7439-96-5	Manganese	99.5		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MS-2F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819028

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	176	B		P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-101F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819027

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	55.0	B		P
7439-96-5	Manganese	388		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-102F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819031

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	110	B		P
7439-96-5	Manganese	1370		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-103F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819032

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	41.9	B		P
7439-96-5	Manganese	984		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-104F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819033

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	119	B		P
7439-96-5	Manganese	493		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-10F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819026A

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	60.7	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-13F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819029A

Level (low/med): LOW Date Received: _____

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	27.7	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

USEPA-CLP FORMS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW-1F

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Lab Sample ID: 819024

Level (low/med): LOW Date Received:

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	49.1	B		P
7439-96-5	Manganese	6700		*	P

Color Before: colorless Clarity Before: clear Texture:

Color After: light yellow Clarity After: clear Artifacts:

Comments:

USEPA-CLP FORMS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Iron	25500.0	26340.00	103.3	30200.0	30380.00	100.6	30310.00	100.4	P
Manganese	500.0	486.90	97.4	200.0	194.20	97.1	193.20	96.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA-CLP FORMS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Iron				30200.0	30220.00	100.1	30270.00	100.2	P
Manganese				200.0	193.40	96.7	193.50	96.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA-CLP FORMS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Iron	25500.0	27110.00	106.3	30200.0	30480.00	100.9	30820.00	102.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA-CLP FORMS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Iron				30200.0	30720.00	101.7	30990.00	102.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Iron				200.0	216.30	108.2		
Manganese				15.0	15.35	102.3		

Control Limits: no limits have been established by EPA at this time

USEPA-CLP FORMS

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

AA CRDL Standard Source: _____

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Iron				200.0	210.20	105.1		

Control Limits: no limits have been established by EPA at this time

USEPA-CLP FORMS

3

BLANKS

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

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
Iron	100.0	U	100.0	U	100.0	U	100.0	U	27.700	U	P
Manganese	7.5	U	7.5	U	7.5	U	7.5	U	0.170	U	P

USEPA-CLP FORMS

3

BLANKS

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

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
Iron			100.0	U							P
Manganese			7.5	U							P

USEPA-CLP FORMS

3

BLANKS

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

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
Iron	100.0	U	100.0	U	100.0	U	100.0	U	27.700	U	P

USEPA-CLP FORMS

3

BLANKS

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

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
Iron			100.0	U							P

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Iron	200000	199160	204900	206900.0	103.9			
Manganese	0	475	1	502.8	105.9			

USEPA-CLP FORMS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

ICP ID Number: TJA ICAP 7 ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Iron	200000	209740	202800	207000.0	98.7			

USEPA-CLP FORMS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MS-14FS

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Iron	80 - 120	1108.0000		27.7000	U	1000.00	110.8		P
Manganese	80 - 120	596.3000		99.5300		500.00	99.4		P

Comments:

USEPA-CLP FORMS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MS-14FA

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Matrix (soil/water): WATER 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
Iron		1117.00		27.70	U	1000.0	111.7		P
Manganese		603.10		99.53		500.0	100.7		P

Comments:

USEPA-CLP FORMS

6

DUPLICATES

SAMPLE NO.

MS-14FD

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Iron		27.7000	U	27.8600	B	200.0		P
Manganese	15.0	99.5300		65.1800		41.7	*	P

7

LABORATORY CONTROL SAMPLE

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) %R
Iron	50500.0	52010.00	103.0					
Manganese	500.0	499.10	99.8					

7

LABORATORY CONTROL SAMPLE

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) %R
Iron	50500.0	51490.00	102.0					

9
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-10FL

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	60.71	B	138.50	U	100.0		P

USEPA-CLP FORMS

9

ICP SERIAL DILUTIONS

SAMPLE NO.

MS-14FL

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	27.70	U	138.50	U			P
Manganese	99.53		100.80		1.3		P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 1/2/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL (ug/L)	1/2 CRDL (ug/L)	M
Iron	271.441		200	100.0	P
Manganese	257.610		15	7.5	P

Comments:

10

~~INSTRUMENT DETECTION LIMITS (QUARTERLY)~~

METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 8/17/2009

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL (ug/L)	MDL (ug/L)	M
Iron	271.441		200	27.7	P
Manganese	257.610		15	0.17	P

Comments:

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 2/24/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	-0.0010006	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0530902	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	-0.0000336	0.0000000	0.0000000	0.0002388	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0001735
Molybdenum	202.030	0.0588018	0.0000000	0.0009164	0.0070064	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0043119	-0.0001740
Vanadium	292.402	0.0000000	0.0000000	0.0049409	0.0000000	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 2/24/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Be	Cd	Co
Aluminum	308.215	0.0000079	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0033805	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0003363
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	-0.0160924	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	-0.0019468	0.0603189	0.0000000	0.0000000	-0.0017009
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0001510
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	-0.0009648	0.0000000	0.0019415
Vanadium	292.402	0.0000000	0.0000000	0.0002205	0.0000472	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 2/24/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Na	Ni
Aluminum	308.215	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	-0.0004684	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0000000	0.0000284	0.0000000	0.0000000	0.0000282
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000179	0.0000000	0.0000000
Manganese	257.610	0.0001041	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	-0.0001893	0.0002224	0.0000000	0.0000000	0.0006230
Nickel	231.604	-0.0001218	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.941	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 2/24/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Si	Tl
Aluminum	308.215	-0.0000744	0.0000000	0.0000310	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.678	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.933	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0128328	0.0000000	0.0041606	0.0003344
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0015511
Copper	324.754	-0.0036758	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.441	0.0000164	0.0000427	0.0000375	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0001152	0.0000000	0.0007821	0.0000000	0.0018096
Molybdenum	202.030	-0.0022171	-0.0021668	0.0005431	0.0008995	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	178.287	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.491	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.026	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.232	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	421.552	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	-0.0077086	0.0000000	0.0000000	0.0000000
Titanium	334.941	-0.0005674	0.0000000	0.0000000	0.0019090	0.0005625
Vanadium	292.402	0.0000000	-0.0023318	0.0000000	0.0019249	-0.0079209
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

USEPA-CLP FORMS

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 2/24/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.215	0.0000000	0.0000083			
Antimony	206.838	0.0000000	0.0000000			
Arsenic	189.042	0.0000000	0.0000000			
Barium	493.409	0.0000000	0.0000000			
Beryllium	313.042	0.0000000	0.0000000			
Boron	249.678	0.0000000	0.0000000			
Cadmium	226.502	0.0000000	0.0000000			
Calcium	317.933	0.0000000	0.0000000			
Chromium	267.716	0.0000000	0.0000000			
Cobalt	228.616	0.0000000	0.0000000			
Copper	324.754	0.0000000	0.0001201			
Iron	271.441	0.0000241	0.0000599			
Lead	220.353	0.0000000	0.0000000			
Magnesium	279.079	0.0000000	0.0000300			
Manganese	257.610	0.0000000	0.0000000			
Molybdenum	202.030	-0.0184759	-0.0002216			
Nickel	231.604	0.0000000	0.0047199			
Phosphorus	178.287	0.0000000	0.0000000			
Potassium	766.491	0.0000000	0.0000000			
Selenium	196.026	0.0000000	0.0000000			
Silver	328.068	0.0000000	0.0000000			
Sodium	330.232	0.0000000	0.0000000			
Strontium	421.552	0.0000000	0.0000000			
Thallium	190.864	0.0000000	0.0000000			
Tin	189.989	0.0000000	0.0000000			
Titanium	334.941	0.0009140	-0.0008084			
Vanadium	292.402	0.0000000	0.0000000			
Zinc	206.200	0.0000000	0.0000000			

Comments:

USEPA-CLP FORMS

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

ICP ID Number: TJA ICAP 7 Date: 1/2/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Iron	20.00	300000.0	P
Manganese	20.00	10000.0	P

Comments:

USEPA-CLP FORMS

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PREPARATION LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Method: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
LCSW022610A	2/26/2010	100.0	100.0
MS-14F	2/26/2010	100.0	100.0
MS-14FD	2/26/2010	100.0	100.0
MS-14FS	2/26/2010	100.0	100.0
MS-2F	2/26/2010	100.0	100.0
MW-101F	2/26/2010	100.0	100.0
MW-102F	2/26/2010	100.0	100.0
MW-103F	2/26/2010	100.0	100.0
MW-104F	2/26/2010	100.0	100.0
MW-1F	2/26/2010	100.0	100.0
PBW022610A	2/26/2010	100.0	100.0

PREPARATION LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: _____ SDG No.: 135744

Method: P

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
DUP2F	3/5/2010	100.0	100.0
LCSW030510A	3/5/2010	100.0	100.0
MW-10F	3/5/2010	100.0	100.0
MW-13F	3/5/2010	100.0	100.0
PBW030510A	3/5/2010	100.0	100.0

USEPA-CLP FORMS

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ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Instrument ID Number: TJA ICAP 7 Method: P

Start Date: 3/1/2010 End Date: 3/1/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1800												X			X										
STD7	1.00	1804												X													
STD8	1.00	1807																									
STD4	1.00	1811															X										
ICV	1.00	1815												X			X										
ICB	1.00	1819												X			X										
ICSA	1.00	1823												X			X										
ICSAB	1.00	1826												X			X										
CRI	1.00	1830												X			X										
ZZZZZZ	1.00	1834																									
CCV	1.00	1838												X			X										
CCB	1.00	1842												X			X										
ZZZZZZ	1.00	1845																									
ZZZZZZ	1.00	1849																									
ZZZZZZ	1.00	1853																									
ZZZZZZ	1.00	1857																									
ZZZZZZ	1.00	1901																									
CCV	1.00	1904												X			X										
CCB	1.00	1908												X			X										
PBW022610A	1.00	1912												X			X										
LCSW022610A	1.00	1916												X			X										
MW-1F	1.00	1920												X			X										
MW-101F	1.00	1924												X			X										
MS-2F	1.00	1928												X													
MS-14F	1.00	1931												X			X										
MS-14FL	5.00	1935												X			X										
MS-14FA	1.00	1939												X			X										
MS-14FS	1.00	1943												X			X										
MS-14FD	1.00	1945												X			X										
CCV	1.00	1948												X			X										
CCB	1.00	1951												X			X										
MW-102F	1.00	1955												X			X										
MW-103F	1.00	1959												X			X										
MW-104F	1.00	2003												X			X										
ZZZZZZ	1.00	2007																									
ZZZZZZ	1.00	2011																									
ZZZZZZ	1.00	2014																									
ZZZZZZ	5.00	2018																									

USEPA-CLP FORMS

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ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Instrument ID Number: TJA ICAP 7 Method: P

Start Date: 3/1/2010 End Date: 3/1/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	2022																									
ZZZZZZ	1.00	2026																									
ZZZZZZ	1.00	2030																									
CCV	1.00	2034												X			X										
CCB	1.00	2038												X			X										

USEPA-CLP FORMS

14

ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Instrument ID Number: TJA ICAP 7 Method: P

Start Date: 3/9/2010 End Date: 3/9/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1040												X													
STD7	1.00	1044												X													
STD8	1.00	1048																									
STD4	1.00	1052																									
ICV	1.00	1055												X													
ICB	1.00	1059												X													
ICSA	1.00	1103												X													
ICSAB	1.00	1107												X													
CRI	1.00	1111												X													
CCV	1.00	1114												X													
CCB	1.00	1118												X													
ZZZZZZ	1.00	1122																									
ZZZZZZ	1.00	1126																									
ZZZZZZ	1.00	1130																									
ZZZZZZ	5.00	1133																									
ZZZZZZ	1.00	1137																									
ZZZZZZ	1.00	1141																									
ZZZZZZ	1.00	1145																									
ZZZZZZ	1.00	1149																									
ZZZZZZ	1.00	1153																									
ZZZZZZ	1.00	1157																									
CCV	1.00	1200												X													
CCB	1.00	1204												X													
ZZZZZZ	1.00	1208																									
ZZZZZZ	5.00	1212																									
ZZZZZZ	1.00	1216																									
ZZZZZZ	1.00	1219																									
ZZZZZZ	1.00	1223																									
ZZZZZZ	1.00	1227																									
ZZZZZZ	1.00	1231																									
ZZZZZZ	1.00	1235																									
ZZZZZZ	1.00	1239																									
ZZZZZZ	1.00	1243																									
CCV	1.00	1247												X													
CCB	1.00	1251												X													
PBW030510A	1.00	1254												X													
LCSW030510A	1.00	1258												X													
MW-10F	1.00	1302												X													

USEPA-CLP FORMS

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ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Contract: 29000

Lab Code: STLVT Case No.: STALBANS SAS No.: SDG No.: 135744

Instrument ID Number: TJA ICAP 7 Method: P

Start Date: 3/9/2010 End Date: 3/9/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MW-10FL	5.00	1306												X													
MW-13F	1.00	1310												X													
DUP2F	1.00	1314												X													
CCV	1.00	1317												X													
CCB	1.00	1321												X													

APPENDIX 2

LAB DATA VALIDATION CHECK LIST

LEGGETTE, BRASHEARS & GRAHAM, INC.
76 Pearl Street, Suite 203
Essex Jct., Vermont 05452
PHONE (802) 288-9600
FAX (802) 288-9881
www.lbgweb.com

PROJECT: St. Albans Municipal Parking Lot #1 & Former Brickyard Tavern

SAMPLE DATE: 1/26 - 1/27/2010

DATE LAB RECEIVED SAMPLES: 1/28/2010

ITEMS	YES	NO	DESCRIPTION
Correct Sample IDs	✓		
Holding Time met	✓		
Units	✓		
Method Detection Limits	✓		
Adequate Preservation	✓		
Acceptable Matrix Spikes	✓		
Acceptable Surrogate Recoveries	—		NA
Field Blank	—		NA
DUP Relative Percent Difference		✓	RPD outside acceptance limits for MW-14

OTHER NOTES:

CHECKED BY: Deidra Ritzer DATE: 3/18/10