



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/31/2009

TRC SOLUTIONS - LOWELL
650 SUFFOLK STREET
LOWELL, MA 01852
ATTN: DAVID SULLIVAN

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-24248

JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NEW BEDFORD (WALSH)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
POST-10' I	09B09195	SOIL	Not Specified	as (mg/kg)dw icp	
POST-10' I	09B09195	SOIL	Not Specified	solids (percent)	
POST-10' J	09B09196	SOIL	Not Specified	as (mg/kg)dw icp	
POST-10' J	09B09196	SOIL	Not Specified	solids (percent)	
POST-10' K	09B09197	SOIL	Not Specified	as (mg/kg)dw icp	
POST-10' K	09B09197	SOIL	Not Specified	solids (percent)	
POST-10' L	09B09198	SOIL	Not Specified	as (mg/kg)dw icp	
POST-10' L	09B09198	SOIL	Not Specified	solids (percent)	
POST-10' LD	09B09199	SOIL	Not Specified	as (mg/kg)dw icp	
POST-10' LD	09B09199	SOIL	Not Specified	solids (percent)	



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JOB NUMBER: 115058

Comments :

LIMS BATCH NO. : LIMT-24248

CASE NARRATIVE SUMMARY

Recommended sample holding times were not exceeded for all samples unless listed below:
None Exceeded

All samples for the method(s) listed were received preserved properly in the proper containers at 4°C +/- 2 degrees as specified on the chain-of-custody form unless listed below:
All properly preserved

There are no (other) analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-6010 - ADDITIONAL DETAILS

Only total As was requested and reported.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

3/31/09

SIGNATURE

DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample



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3/31/2009
 Page 1 of 5

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH)
 Date Received: 3/25/2009

LIMS-BAT #: LIMIT-24248
 Job Number: 115058

Field Sample # : POST-10' I

Sample ID : 09B09195 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Arsenic	mg/kg dry wt	15.7	03/30/09	OP	3.08			

Field Sample # : POST-10' J

Sample ID : 09B09196 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Arsenic	mg/kg dry wt	164	03/30/09	OP	2.73			

Field Sample # : POST-10' K

Sample ID : 09B09197 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Arsenic	mg/kg dry wt	170	03/30/09	OP	2.77			

Field Sample # : POST-10' L

Sample ID : 09B09198 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Arsenic	mg/kg dry wt	7.16	03/30/09	OP	2.92			

Field Sample # : POST-10' LD

Sample ID : 09B09199 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
Arsenic	mg/kg dry wt	8.98	03/30/09	OP	2.86			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled



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Purchase Order No.:

3/31/2009
Page 2 of 5

Project Location: CITY OF NEW BEDFORD (WALSH)
Date Received: 3/25/2009

LIMS-BAT #: LIMIT-24248
Job Number: 115058

Analytical Method:
SW846 3050/6010

SAMPLES ARE DIGESTED WITH NITRIC ACID AND THEN ANALYZED BY
INDUCTIVELY COUPLED PLASMA EMISSION SPECTROSCOPY.

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3/31/2009
 Page 3 of 5

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH)
 Date Received: 3/25/2009

LIMS-BAT #: LIMIT-24248
 Job Number: 115058

Field Sample # : POST-10' I

Sample ID : 09B09195 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	81.2	03/31/09	FD			

Field Sample # : POST-10' J

Sample ID : 09B09196 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	91.7	03/31/09	FD			

Field Sample # : POST-10' K

Sample ID : 09B09197 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	90.5	03/31/09	FD			

Field Sample # : POST-10' L

Sample ID : 09B09198 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.8	03/31/09	FD			

Field Sample # : POST-10' LD

Sample ID : 09B09199 ‡Sampled : 3/25/2009
 Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.5	03/31/09	FD			

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3/31/2009
Page 4 of 5

Purchase Order No.:

Project Location: CITY OF NEW BEDFORD (WALSH)
Date Received: 3/25/2009

LIMS-BAT #: LIMIT-24248
Job Number: 115058

Analytical Method:

SM 2540G

PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES
CENTIGRADE.

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3/31/2009
Page 5 of 5

Purchase Order No.:

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LIMS-BAT #: LIMIT-24248
Job Number: 115058

** END OF REPORT **

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/31/2009

Lims Bat # : LIMIT-24248

Page 1 of 2

QC Batch Number: ICP-21469

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-131216	Arsenic	Blank	<2.50	mg/kg dry wt	
LFBLANK-93441	Arsenic	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	122.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.44	%	83-117
		Dup Lab Fort Bl Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	125.85	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	102.31	%	83-117
		Lab Fort Blank Range	2.86	units	
		Lab Fort Bl. Av. Rec	100.88	%	
		LFB Duplicate RPD	2.84	%	0-30



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 3/31/2009

Lims Bat #: LIMIT-24248

Page 2 of 2

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

MADEP MCP ANALYTICAL METHOD REPORT CERTIFICATION FORM

Laboratory Name: CON-TEST Analytical Laboratory	Project #: LIMT- 24 248
Project Location: City of New Bedford (Walsh)	MADEP RTN ¹ :

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

09809195-09809199

Sample Matrices: Groundwater Soil/Sediment Drinking Water Other: _____

MCP SW-846 Methods Used	8260B ()	8151A ()	8330 ()	6010B <input checked="" type="checkbox"/>	7470A/1A ()
	8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 ()	8021B ()	EPH ()	7000 S ³ ()	7196A ()
1 List Release Tracking Number (RTN), if known 2 M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method 3 S – SW-846 Methods 7000 Series List individual method and analyte.					

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
D	<u>VPH and EPH Methods only.</u> Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No ¹

A response to questions E and F below is required for "Presumptive Certainty" status

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹All Negative responses must be addressed in an attached Environmental Laboratory case narrative.

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

Signature: <u>Michael Erickson</u>	Position: Assistant Laboratory Director
Printed Name: Michael Erickson	Date: <u>3/31/09</u>



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com
 www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 SPRUCE ST, 2ND FLOOR
 EAST LONGMEADOW, MA 01028

Company Name: Tec

Address: 650 Suffolk St.

Lowell MA 01854

Attention: David Sullivan

Project Location: City of W3 (Water)

Sampled By: J. Samples

Proposal Provided? (For Billing purposes) Yes No

proposal date 2007 State Form Required? Yes No

Telephone: (978) 656-3525

Project # 115058

Client PO #

DATA DELIVERY (check one):

FAX EMAIL WEBSITE CLIENT

Fax #:

Email: deliv@contestlabs.com

Format: EXCEL PDF GIS KEY

OTHER

Field ID	Sample Description	Lab #	Date Sampled		Comp. osite	Grab	Matrix Conc. Code Code	ANALYSIS REQUESTED	# of containers	
			Start Date/Time	Stop Date/Time						
Post-10'I	(Hold)	09195	3/25/09	0910	6	5	U	X	Total Arsenic	
Post-10'M	(Hold)	09196		0930	6	5	U	X		
Post-10'J	(Hold)	09196		0950	6	5	U	X		
Post-10'N	(Hold)	09197		1005	6	5	U	X		
Post-10'K	(Hold)	09197		1020	6	5	U	X		
Post-10'O	(Hold)	09198		1030	6	5	U	X		
Post-10'L	(Hold)	09198		1045	6	5	U	X		
Post-10'P	(Hold)	09198	3/25/09	1100	6	5	U	X		

Laboratory Comments: Hold all samples for TAP analysis.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

Reinquinshed by: (signature) [Signature] Date/Time: 3/25/09 1300

Received by: (signature) [Signature] Date/Time: 3-25-09 1300

Reinquinshed by: (signature) [Signature] Date/Time: 3-25-09 1815

Received by: (signature) [Signature] Date/Time: 3-25-09 1815

Turnaround **

7-Day 10-Day Other day

RUSH * *24-Hr *48-Hr *72-Hr *4-Day

Detection Limit Requirements

Regulations? MCL 5-15-2

Data Enhancement Project/RCP? Y N

Special Requirements or DL's: See Note

Matrix Code: GW = groundwater WW = wastewater DW = drinking water A = air S = soil/solid SL = sludge O = other

Preservation Codes: I = Iced X = Na hydroxide H = HCL T = Na thiosulfate M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate O = Other

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified

www.contestlabs.com



39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: TBC RECEIVED BY: MAA DATE: 3.25

- 1) Was the chain(s) of custody relinquished and signed? Yes No
- 2) Does the chain agree with the samples? Yes No
- 3) Are all the samples in good condition? Yes No

- 4) How were the samples received:
On Ice Direct from Sampling Ambient In Cooler(s)
- Were the samples received in Temperature Compliance of (2-6°C)? Yes No

Temperature °C by Temp blank 3.0 Temperature °C by Temp gun _____

- 5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____ Yes No Stored where: HOB

- 6) Are there any samples "On Hold"?
- 7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	9
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below		Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
 # Bisulfate _____ # DI Water _____ Time and Date Frozen: _____
 # Thiosulfate _____ Unpreserved _____

Do all samples have the proper pH: Yes No N/A