



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

REPORT DATE 7/10/2009

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

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23460

JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NEW BEDFORD-WALAH

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
POST-3U (12-18)	09B05260	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (12-18)	09B05260	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (12-18)	09B05260	SOIL	Not Specified	solids (percent)	
POST-3U (18-24)	09B05261	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (18-24)	09B05261	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (18-24)	09B05261	SOIL	Not Specified	solids (percent)	
POST-3U (24-30)	09B05262	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (24-30)	09B05262	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (24-30)	09B05262	SOIL	Not Specified	solids (percent)	
POST-3U (30-36)	09B05263	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (30-36)	09B05263	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (30-36)	09B05263	SOIL	Not Specified	solids (percent)	
POST-3U (36-42)	09B05264	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (36-42)	09B05264	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (36-42)	09B05264	SOIL	Not Specified	solids (percent)	
POST-3U (42-48)	09B05265	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (42-48)	09B05265	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (42-48)	09B05265	SOIL	Not Specified	solids (percent)	
POST-3U (48-54)	09B05266	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (48-54)	09B05266	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (48-54)	09B05266	SOIL	Not Specified	solids (percent)	
POST-3U (54-60)	09B05267	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (54-60)	09B05267	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (54-60)	09B05267	SOIL	Not Specified	solids (percent)	
POST-3U (6-12)	09B05259	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (6-12)	09B05259	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (6-12)	09B05259	SOIL	Not Specified	solids (percent)	
POST-3U (60-66)	09B05268	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3U (60-66)	09B05268	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3U (60-66)	09B05268	SOIL	Not Specified	solids (percent)	
POST-3V (12-18) Q	09B05270	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3V (12-18) Q	09B05270	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3V (12-18) Q	09B05270	SOIL	Not Specified	solids (percent)	
POST-3V (18-24)	09B05271	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3V (18-24)	09B05271	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3V (18-24)	09B05271	SOIL	Not Specified	solids (percent)	
POST-3V (24-30)	09B05272	SOIL	Not Specified	as (mg/kg)dw icp	
POST-3V (24-30)	09B05272	SOIL	Not Specified	pb (mg/kg)dw icp	
POST-3V (24-30)	09B05272	SOIL	Not Specified	solids (percent)	



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ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23460

JOB NUMBER: 115058

POST-3V (30-36)	09B05273	SOIL	Not Specified	as (mg/kg)dw icp
POST-3V (30-36)	09B05273	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3V (30-36)	09B05273	SOIL	Not Specified	solids (percent)
POST-3V (36-42)	09B05274	SOIL	Not Specified	as (mg/kg)dw icp
POST-3V (36-42)	09B05274	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3V (36-42)	09B05274	SOIL	Not Specified	solids (percent)
POST-3V (6-12)	09B05269	SOIL	Not Specified	as (mg/kg)dw icp
POST-3V (6-12)	09B05269	SOIL	Not Specified	pb (mg/kg)dw icp
POST-3V (6-12)	09B05269	SOIL	Not Specified	solids (percent)



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ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-23460

JOB NUMBER: 115058

Comments :

LIMS BATCH NO. : LIMIT-23460

REVISED REPORT - 7/10/09 - SAMPLE ID 09B05268 POST-3V SHOULD BE POST-3U

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 analytical issues which affect the usability of the data.

DETAILED CASE NARRATIVE

METHOD SW846-6010 - ADDITIONAL DETAILS

Sample duplicate and ms performed on sample 09B05270.
Only Arsenic and Lead results were 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.

Edward Denson 7/10/09
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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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (12-18)

Sample ID : 09B05260 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	13.8	02/28/09	AMP	2.78		

Field Sample # : POST-3U (18-24)

Sample ID : 09B05261 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	ND	02/28/09	AMP	2.68		

Field Sample # : POST-3U (24-30)

Sample ID : 09B05262 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	3.29	02/28/09	AMP	2.71		

Field Sample # : POST-3U (30-36)

Sample ID : 09B05263 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	4.28	02/28/09	AMP	2.85		

Field Sample # : POST-3U (36-42)

Sample ID : 09B05264 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.11	02/28/09	AMP	2.87		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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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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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (42-48)

Sample ID : 09B05265 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.28	02/28/09	AMP	2.92		

Field Sample # : POST-3U (48-54)

Sample ID : 09B05266 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	6.30	02/28/09	AMP	2.90		

Field Sample # : POST-3U (54-60)

Sample ID : 09B05267 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	8.43	02/28/09	AMP	2.92		

Field Sample # : POST-3U (6-12)

Sample ID : 09B05259 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	132	02/28/09	AMP	3.04		

Field Sample # : POST-3U (60-66)

Sample ID : 09B05268 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	7.24	02/28/09	AMP	3.44		

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3V (12-18) QC

Sample ID : 09B05270 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	26.5	02/28/09	AMP	2.88		

Field Sample # : POST-3V (18-24)

Sample ID : 09B05271 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	ND	02/28/09	AMP	2.68		

Field Sample # : POST-3V (24-30)

Sample ID : 09B05272 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	ND	02/28/09	AMP	2.68		

Field Sample # : POST-3V (30-36)

Sample ID : 09B05273 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	3.80	02/28/09	AMP	2.88		

Field Sample # : POST-3V (36-42)

Sample ID : 09B05274 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	3.19	02/28/09	AMP	2.79		

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMT-23460
Job Number: 115058

Field Sample # : POST-3V (6-12)

Sample ID : 09B05269 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Arsenic	mg/kg dry wt	129	02/28/09	AMP	3.01		

Analytical Method:
SW846 3050/6010

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

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (12-18)

Sample ID : 09B05260 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	27.2	02/28/09	AMP	0.84		

Field Sample # : POST-3U (18-24)

Sample ID : 09B05261 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	351	02/28/09	AMP	0.81		

Field Sample # : POST-3U (24-30)

Sample ID : 09B05262 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	1180	02/28/09	AMP	0.82		

Field Sample # : POST-3U (30-36)

Sample ID : 09B05263 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	119	02/28/09	AMP	0.86		

Field Sample # : POST-3U (36-42)

Sample ID : 09B05264 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	37.0	02/28/09	AMP	0.87		

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (42-48)

Sample ID : 09B05265 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	33.3	02/28/09	AMP	0.88		

Field Sample # : POST-3U (48-54)

Sample ID : 09B05266 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	206	02/28/09	AMP	0.87		

Field Sample # : POST-3U (54-60)

Sample ID : 09B05267 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	179	02/28/09	AMP	0.88		

Field Sample # : POST-3U (6-12)

Sample ID : 09B05259 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	40.1	02/28/09	AMP	0.92		

Field Sample # : POST-3U (60-66)

Sample ID : 09B05268 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	81.7	02/28/09	AMP	1.04		

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3V (12-18) QC

Sample ID : 09B05270 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	23.9	02/28/09	AMP	0.87		

Field Sample # : POST-3V (18-24)

Sample ID : 09B05271 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	4.73	02/28/09	AMP	0.81		

Field Sample # : POST-3V (24-30)

Sample ID : 09B05272 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	23.8	02/28/09	AMP	0.81		

Field Sample # : POST-3V (30-36)

Sample ID : 09B05273 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	201	02/28/09	AMP	0.87		

Field Sample # : POST-3V (36-42)

Sample ID : 09B05274 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	45.8	02/28/09	AMP	0.84		

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3V (6-12)

Sample ID : 09B05269 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Lead	mg/kg dry wt	38.9	02/28/09	AMP	0.91		

Analytical Method:
SW846 3050/6010

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

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or
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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (12-18)

Sample ID : 09B05260 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	90.0	03/02/09	FD			

Field Sample # : POST-3U (18-24)

Sample ID : 09B05261 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	93.3	03/02/09	FD			

Field Sample # : POST-3U (24-30)

Sample ID : 09B05262 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	92.4	03/02/09	FD			

Field Sample # : POST-3U (30-36)

Sample ID : 09B05263 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	88.0	03/02/09	FD			

Field Sample # : POST-3U (36-42)

Sample ID : 09B05264 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.2	03/02/09	FD			

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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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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3U (42-48)

Sample ID : 09B05265 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.9	03/02/09	FD			

Field Sample # : POST-3U (48-54)

Sample ID : 09B05266 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.5	03/02/09	FD			

Field Sample # : POST-3U (54-60)

Sample ID : 09B05267 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	85.7	03/02/09	FD			

Field Sample # : POST-3U (6-12)

Sample ID : 09B05259 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	82.4	03/02/09	FD			

Field Sample # : POST-3U (60-66)

Sample ID : 09B05268 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	72.8	03/02/09	FD			

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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

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

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

7/10/2009

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH

LIMS-BAT #: LIMIT-23460

Date Received: 2/23/2009

Job Number: 115058

Field Sample # : POST-3V (12-18) QC
Sample ID : 09B05270

‡Sampled : 2/23/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	86.9	03/02/09	FD			

Field Sample # : POST-3V (18-24)
Sample ID : 09B05271

‡Sampled : 2/23/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	93.4	03/02/09	FD			

Field Sample # : POST-3V (24-30)
Sample ID : 09B05272

‡Sampled : 2/23/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	93.5	03/02/09	FD			

Field Sample # : POST-3V (30-36)
Sample ID : 09B05273

‡Sampled : 2/23/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	87.0	03/02/09	FD			

Field Sample # : POST-3V (36-42)
Sample ID : 09B05274

‡Sampled : 2/23/2009

Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	89.7	03/02/09	FD			

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

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

7/10/2009
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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

Field Sample # : POST-3V (6-12)

Sample ID : 09B05269 ‡Sampled : 2/23/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Solids, total	%	83.2	03/02/09	FD			

Analytical Method:

SM 2540G

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

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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

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

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

7/10/2009

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Purchase Order No.:

Project Location: CITY OF NEW BEDFORD-WALAH
Date Received: 2/23/2009

LIMS-BAT #: LIMIT-23460
Job Number: 115058

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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

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

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



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

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: 7/10/2009

Lims Bat # : LIMIT-23460

Page 1 of 2

QC Batch Number: ICP-21252

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B05270	Arsenic	Sample Amount	26.50	mg/kg dry wt	
		Duplicate Value	21.36	mg/kg dry wt	
		Duplicate RPD	21.45	%	0-35
		Sample Amount	26.50	mg/kg dry wt	
	Lead	Matrix Spk Amt Added	28.76	mg/kg dry wt	
		MS Amt Measured	50.48	mg/kg dry wt	
		Matrix Spike % Rec.	83.36	%	75-125
		Sample Amount	23.89	mg/kg dry wt	
		Duplicate Value	20.57	mg/kg dry wt	
		Duplicate RPD	14.91	%	0-35
		Sample Amount	23.89	mg/kg dry wt	
		Matrix Spk Amt Added	28.76	mg/kg dry wt	
		MS Amt Measured	49.30	mg/kg dry wt	
		Matrix Spike % Rec.	88.35	%	75-125
BLANK-130091	Arsenic	Blank	<2.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
LFBLANK-92231	Arsenic	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	127.09	mg/kg dry wt	
		Lab Fort Blk. % Rec.	103.32	%	83-117
		Dup Lab Fort Bl Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	121.23	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	98.56	%	83-117
		Lab Fort Blank Range	4.76	units	
		Lab Fort Bl. Av. Rec	100.94	%	
		LFB Duplicate RPD	4.71	%	0-30
	Lead	Lab Fort Blank Amt.	136.00	mg/kg dry wt	
		Lab Fort Blk. Found	131.72	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.86	%	81-120
		Dup Lab Fort Bl Amt.	136.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	124.64	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.64	%	81-120
		Lab Fort Blank Range	5.21	units	
		Lab Fort Bl. Av. Rec	94.25	%	
		LFB Duplicate RPD	5.53	%	0-30



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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 7/10/2009

Lims Bat #: LIMIT-23460

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 through 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 #: L1MT- 23460	
Project Location: <i>City of New Bedford - Watah</i>				MADEP RTN ¹ :	
This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)] 09B05259- 09B05274					
Sample Matrices: <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> 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
¹ All 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><i>Michael Erickson</i></u>				Position: Assistant Laboratory Director	
Printed Name: Michael Erickson				Date: <u>3/2/09</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

Page 2 of 7

Company Name: TRC

Address: 650 Suffolk St.

Lowell MA 01854

Attention: David Sullivan

Project Location: City of WB (Woburn)

Sampled By: J. Sander / H. R. R. R.

Proposal Provided? (For Billing purposes)

☒ yes 2007 proposal date

State Form Required?

☒ yes ☐ no

Field ID

Sample Description

Lab #

Date Sampled

Start Date/Time

Step

Stop Date/Time

Comp-
osite

Grab

*Matrix
Code

*Conc.
Code

Client

Comments:

Relinquished by: (signature)

Received by: (signature)

Relinquished by: (signature)

Received by: (signature)

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Client PO #

Project # 115055

Telephone: (413) 656-3565

Project # 115055

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: delivered to test lab

Format: ☒ EXCEL ☐ PDF ☒ GIS KEY

☐ OTHER

Turnaround **

☐ 7-Day

☐ 10-Day

☒ Other 5 day

☐ *24-Hr ☐ *48-Hr

☐ *72-Hr ☐ *4-Day

* Require lab approval

Detection Limit Requirements

Regulations? MSR 5-15-2

Data Enhancement Project/RCP? ☒ Y ☐ N

Special Requirements or DL's: see quote

*Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

ANALYSIS REQUESTED

-Cont. Code:

A = amber glass

G = glass

P = plastic

ST = sterile

V = vial

S = summa can

T = tedlar bag

O = Other

of containers

**Preservation

-Cont. Code

I = iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

O = Other

X = Na hydroxide

T = Na thiosulfate

INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAP & WBE/DBE Certified



Phone: 413-525-2332
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Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

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

Page 4 of 7

Company Name:

TRC

Address:

650 Saffolk St.

Lowell MA 01854

Attention:

David Sullivan

Project Location:

City of NB (Harris)

Sampled By:

J. Sanders / H.R. 376

Proposal Provided? (For Billing purposes)

☒ yes 2003

proposal date

State Form Required?

☒ yes ☐ no

Telephone: (413) 656-3565
Project # 115055
Client PO #

DATA DELIVERY (check one):

☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT

Fax #:

Email: ballantyne@contestlabs.com

Format: ☒ EXCEL ☐ PDF ☒ GIS KEY

☐ OTHER

Date Sampled

Start Date/Time	Stop Date/Time	Comp-oste	Grab	Matrix Code	Conc. Code
2/23/09	1050			S	U
	1052				
	1054				
	1056				
	1058				
	1110				
	1115				
2/23/09	1126			S	U

Total Arsenic
Total Lead

ANALYSIS REQUESTED

of containers
**Preservation
-Cont. Code
-Cont. Code:

A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summary can
T=tedlar bag
O=Other

Client
Comments:

Field ID	Sample Description	Lab #	Start Date/Time	Stop Date/Time	Comp-oste	Grab	Matrix Code	Conc. Code												
	Post-3w (18-24)		2/23/09	1050			S	U	X	X										
	Post-3w (24-30)			1052					X	X										
	Post-3w (30-36)			1054					X	X										
	Post-3w (36-42)			1056					X	X										
	Post-3w (42-48)			1058					X	X										
	Post-3w (48-54)			1110					X	X										
	Post-4w (42-48)			1115					X	X										
	Post-3X (0-6)		2/23/09	1126			S	U	X	X										

Laboratory Comments:

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

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time: 2/23/09 1600

Turnaround **

Detection Limit Requirements

*Matrix Code:

**Preservation Codes:

Received by: (signature)

Date/Time: 2-23-9 1600

☐ 7-Day
☐ 10-Day
☒ Other: 4 day

Regulations? MCL 5115-2

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

I = iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
O = Other

Relinquished by: (signature)

Date/Time: 2-23-9 1900

☐ 24-Hr
☐ 48-Hr
☐ 72-Hr
☐ 4-Day

Data Enhancement Project/RCP? ☒ Y ☐ N

Special Requirements or DLs: See Quote

Received by: (signature)

Date/Time: 2/23/09 1900

☐ 24-Hr
☐ 48-Hr
☐ 72-Hr
☐ 4-Day

Special Requirements or DLs: See Quote

* Require lab approval

** 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.

Company Name: TRC
Address: 650 Suffolk St.
Lowell MA 01854

Telephone: (413) 656-3565
Project # 115055
Client PO #

Attention: David Sullivan

Project Location: City of MB (Walsh)

Sampled By: J. Scuderi / H. R. 773

Proposal Provided? (For Billing purposes) ☐ yes ☐ no

State Form Required? ☐ yes ☐ no

DATA DELIVERY (check one):
☐ FAX ☒ EMAIL ☐ WEBSITE CLIENT
Fax #:
Email: dscuderi@contestlabs.com
Format: ☒ EXCEL ☐ PDF ☒ GIS KEY

Field ID	Sample Description	Lab #	Start Date/Time	Step Date/Time	Comp. Date/Time	Matrix Code	Conc. Code	Analysis Requested	# of containers
	Post-3X (6-12)		2/23/09	1125		6	5	Total Arsenic	1
	Post-3X (12-15)			1130				Total Lead	1
	Post-3X (15-24) (ms/ptl.)			1132					
	Post-3X (24-30)			1134					
	Post-3X (30-36)			1136					
	Post-3X (36-42)			1138					
	Post-3X (42-48)			1140					
	Post-3X (48-54)		2/23/09	1145		6	5		

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

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 2/23/09 1600

Received by: (signature) [Signature] Date/Time: 2-23-09 1600

Relinquished by: (signature) [Signature] Date/Time: 2-23-09 1900

Received by: (signature) [Signature] Date/Time: 2/23/09 1900

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Rush
* Require lab approval

Detection Limit Requirements
Regulations? MCP 5-1/5-2
Data Enhancement Project/RCP? ☒ Y ☐ N
Special Requirements or DL's: See Quote

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

**Preservation Codes:
I = Iced
H = HCL
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.

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

Sample Receipt Checklist

CLIENT NAME: TPC - Low RECEIVED BY: CFC DATE: 2/23/09

1) Was the chain(s) of custody relinquished and signed? Yes No

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

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 _____

6) Are there any samples "On Hold"? Yes No

Stored where: _____

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	<u>14</u>
500 mL Amber		4 oz clear jar	<u>14</u>
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 _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: _____

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