con-test®
ANALYTICAL LABORATORY

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

REPORT DATE 4/27/2009

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

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-24865
JOB NUMBER: 115058

PROJECT LOCATION: CITY OF NBHS (NBHS/KJH)

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	6010 drywt mcp	
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	8082 drywt	
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	8270 mcp drywt	
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	hg (mg/kg) dw	
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	solids (percent)	
SIGN-1 (0-1)	09B12668	SOIL	Not Specified	tph gc dry 8100m	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	6010 drywt mcp	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	8082 drywt	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	8270 mcp drywt	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	hg (mg/kg) dw	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	solids (percent)	
SIGN-2 (0-1)	09B12669	SOIL	Not Specified	tph gc dry 8100m	

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ANALYTICAL SUMMARY

LIMS BAT #: LIMT-24865
JOB NUMBER: 115058

Comments :

LIMS BATCH NO. : LIMT-24865

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

In method SW846 8100M-TPH, all samples were extracted 4/20/2009 using SW846 3546 (Microwave).

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

DETAILED CASE NARRATIVE

METHOD SW846-7470A/7471A - ADDITIONAL DETAILS

Sample duplicate and matrix spike performed on SOIL sample 09B12669.

METHOD SW846-6010 - ADDITIONAL DETAILS

Method blank contamination noted above the reporting limit for Zn. All sample results are >10x the level of contamination, no corrective action is necessary.
It was determined by spectral review that false positives were detected for samples 09B12668 and 09B12669. Results are non detect.

METHOD SW846 8270 - ADDITIONAL DETAILS

Solid samples, if any, in the batch were extracted by the following method:
Microwave: SW-846 3546

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative.
Difficult analytes for soil LCS - limits between 10 and 180% depending on the compound (see QC summary report for limits): 3,3'-dichlorobenzidine, aniline, 2,4-dinitrophenol, and 4-chloroaniline.
Duplicate laboratory fortified blank RPDs were all less than or equal to 20% for water or 30% for soil except for "difficult analytes" where RPDs of 50% are used and/or otherwise listed below or elsewhere in this narrative.

Difficult analytes for soil RPDs: 3,3'-dichlorobenzidine, 4-nitrophenol, and aniline.

8270 QC SURROGATE RECOVERIES

BLANK-132248

PHENOL-D6:	92%
NITROBENZENE-D5:	91%

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ANALYTICAL SUMMARY

LIMS BAT #: LIMT-24865
JOB NUMBER: 115058

2-FLUOROBIPHENYL:	62%
2,4,6-TRIBROMOPHENOL:	62%
TERPHENYL-D14:	81%
2-FLUOROPHENOL:	69%

LFBLANK-94516	LFB	LFB DUPLICATE
PHENOL-D6:	97%	99%
NITROBENZENE-D5:	92%	96%
2-FLUOROBIPHENYL:	73%	78%
2,4,6-TRIBROMOPHENOL:	71%	79%
TERPHENYL-D14:	100%	109%
2-FLUOROPHENOL:	77%	84%

METHOD SW846 8082 - ADDITIONAL DETAILS

Solid samples, if any, in the batch were extracted by the following method:
Microwave: SW-846 3546

All 8082 surrogate standard recoveries were within control limits specified by the method unless listed below: None outside of control limits

PCB QC SURROGATE RECOVERIES

BLANK-132270

TETRACHLORO-M-XYLENE:	101%
DECACHLOROBIPHENYL:	97.8%

LFBLANK-94539	LFB	LFB DUPLICATE
TETRACHLORO-M-XYLENE:	113%	105%
DECACHLOROBIPHENYL:	103%	96.2%

Surrogate standard recoveries of confirmatory column results are reported below:

PCB QC SURROGATE RECOVERIES (CONFIRMATORY COLUMN)

BLANK-132270

TETRACHLORO-M-XYLENE:	102%
DECACHLOROBIPHENYL:	100%

LFBLANK-94539	LFB	LFB DUPLICATE
TETRACHLORO-M-XYLENE:	110%	104%
DECACHLOROBIPHENYL:	106%	100%

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)	

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CONTRACT NUMBER:
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ANALYTICAL SUMMARY

LIMS BAT #: LIMT-24865
JOB NUMBER: 115058

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 4/27/09

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

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-1 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12668

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Antimony	mg/kg dry wt	ND	04/21/09	OP	4.69			
Arsenic	mg/kg dry wt	5.31	04/21/09	OP	2.94			
Barium	mg/kg dry wt	56.2	04/21/09	OP	5.87			
Beryllium	mg/kg dry wt	ND	04/21/09	OP	0.30			
Cadmium	mg/kg dry wt	ND	04/21/09	OP	0.30			
Chromium	mg/kg dry wt	9.40	04/21/09	OP	0.59			
Lead	mg/kg dry wt	134	04/21/09	OP	0.88			
Nickel	mg/kg dry wt	6.78	04/21/09	OP	0.59			
Selenium	mg/kg dry wt	ND	04/21/09	OP	5.87			
Silver	mg/kg dry wt	ND	04/21/09	OP	0.59			
Thallium	mg/kg dry wt	ND	04/21/09	OP	3.52			
Vanadium	mg/kg dry wt	16.1	04/21/09	OP	5.87			
Zinc	mg/kg dry wt	70.4	04/21/09	OP	1.18			

Analytical Method:
SW846 6010
SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

RL = Reporting Limit

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LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-2 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12669

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Antimony	mg/kg dry wt	ND	04/21/09	OP	4.66			
Arsenic	mg/kg dry wt	5.56	04/21/09	OP	2.91			
Barium	mg/kg dry wt	53.9	04/21/09	OP	5.82			
Beryllium	mg/kg dry wt	ND	04/21/09	OP	0.30			
Cadmium	mg/kg dry wt	0.42	04/21/09	OP	0.30			
Chromium	mg/kg dry wt	10.4	04/21/09	OP	0.59			
Lead	mg/kg dry wt	158	04/21/09	OP	0.88			
Nickel	mg/kg dry wt	5.47	04/21/09	OP	0.59			
Selenium	mg/kg dry wt	ND	04/21/09	OP	5.82			
Silver	mg/kg dry wt	ND	04/21/09	OP	0.59			
Thallium	mg/kg dry wt	ND	04/21/09	OP	3.49			
Vanadium	mg/kg dry wt	17.4	04/21/09	OP	5.82			
Zinc	mg/kg dry wt	119	04/21/09	OP	1.17			

Analytical Method:
SW846 6010
SAMPLES ARE DIGESTED WITH MINERAL ACIDS AND ANALYZED BY INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (ICP).

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4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009

LIMS-BAT #: LIMT-24865
Job Number: 115058

Field Sample # : SIGN-1 (0-1)

Sample ID : 09B12668 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
PCB 1016	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1221	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1232	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1242	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1248	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1254	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB-1260	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB 1262	mg/kg dry wt	ND	04/22/09	FD	0.118			
PCB 1268	mg/kg dry wt	ND	04/22/09	FD	0.118			
Extraction Date PCBs		4/20/2009	04/22/09	FD				

Field Sample # : SIGN-2 (0-1)

Sample ID : 09B12669 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
PCB 1016	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1221	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1232	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1242	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1248	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1254	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB-1260	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB 1262	mg/kg dry wt	ND	04/22/09	FD	0.117			
PCB 1268	mg/kg dry wt	ND	04/22/09	FD	0.117			
Extraction Date PCBs		4/20/2009	04/22/09	FD				

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4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009

LIMS-BAT #: LIMT-24865
Job Number: 115058

Analytical Method:
SW846 8081/8082
SAMPLES ARE EXTRACTED BY PRESSURIZED FLUID EXTRACTION (SW846 3545) OR MICROWAVE (SW846 3546), CONCENTRATED, AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION.

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4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-1 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12668 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Acenaphthylene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Acetophenone	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Aniline	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Anthracene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Benzo(a)anthracene	mg/kg dry wt	0.458	04/22/09	BGL	0.196			
Benzo(a)pyrene	mg/kg dry wt	0.382	04/22/09	BGL	0.196			
Benzo(b)fluoranthene	mg/kg dry wt	0.446	04/22/09	BGL	0.196			
Benzo(g,h,i)perylene	mg/kg dry wt	0.287	04/22/09	BGL	0.196			
Benzo(k)fluoranthene	mg/kg dry wt	0.256	04/22/09	BGL	0.196			
Bis(2-chloroethoxy)methane	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Bis(2-chloroethyl)ether	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Bis(2-chloroisopropyl)ether	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Bis(2-ethylhexyl)phthalate	mg/kg dry wt	ND	04/22/09	BGL	0.40			
4-Bromophenyl phenyl ether	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Butylbenzylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.79			
4-Chloroaniline	mg/kg dry wt	ND	04/22/09	BGL	0.79			
2-Chloronaphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2-Chlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Chrysene	mg/kg dry wt	0.497	04/22/09	BGL	0.196			
Dibenzofuran	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
1,2-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
1,3-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
1,4-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
3,3'-Dichlorobenzidine	mg/kg dry wt	ND	04/22/09	BGL	0.20			
2,4-Dichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Diethylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2,4-Dimethylphenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			

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4/27/2009

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Date Received: 4/17/2009
Field Sample # : SIGN-1 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12668

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Dimethylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.79			
Di-n-butylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Di-n-octylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.79			
2,4-Dinitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.79			
2,4-Dinitrotoluene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2,6-Dinitrotoluene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
1,2-Diphenylhydrazine (as Azobenzene)	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Fluoranthene	mg/kg dry wt	0.841	04/22/09	BGL	0.196			
Fluorene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Hexachlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Hexachlorobutadiene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Hexachloroethane	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	0.315	04/22/09	BGL	0.196			
Isophorone	mg/kg dry wt	ND	04/22/09	BGL	0.40			
o-cresol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
m & p-cresol(s)	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2-Methylnaphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Naphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.196			
Nitrobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2-Nitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
4-Nitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.79			
Pentachlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Phenanthrene	mg/kg dry wt	0.356	04/22/09	BGL	0.196			
Phenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
Pyrene	mg/kg dry wt	0.782	04/22/09	BGL	0.196			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2,4,5-Trichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			
2,4,6-Trichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.40			

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LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-1 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12668

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Extraction Date 8270		4/20/2009	04/22/09	BGL				

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-2 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12669

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Acenaphthene	mg/kg dry wt	ND	04/22/09	BGL	0.194			
Acenaphthylene	mg/kg dry wt	0.214	04/22/09	BGL	0.194			
Acetophenone	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Aniline	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Anthracene	mg/kg dry wt	0.488	04/22/09	BGL	0.194			
Benzo(a)anthracene	mg/kg dry wt	1.28	04/22/09	BGL	0.194			
Benzo(a)pyrene	mg/kg dry wt	1.13	04/22/09	BGL	0.194			
Benzo(b)fluoranthene	mg/kg dry wt	1.29	04/22/09	BGL	0.194			
Benzo(g,h,i)perylene	mg/kg dry wt	0.767	04/22/09	BGL	0.194			
Benzo(k)fluoranthene	mg/kg dry wt	0.469	04/22/09	BGL	0.194			
Bis(2-chloroethoxy)methane	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Bis(2-chloroethyl)ether	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Bis(2-chloroisopropyl)ether	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Bis(2-ethylhexyl)phthalate	mg/kg dry wt	ND	04/22/09	BGL	0.39			
4-Bromophenyl phenyl ether	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Butylbenzylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.78			
4-Chloroaniline	mg/kg dry wt	ND	04/22/09	BGL	0.78			
2-Chloronaphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2-Chlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Chrysene	mg/kg dry wt	1.48	04/22/09	BGL	0.194			
Dibenzofuran	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	04/22/09	BGL	0.194			
1,2-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
1,3-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
1,4-Dichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
3,3'-Dichlorobenzidine	mg/kg dry wt	ND	04/22/09	BGL	0.20			
2,4-Dichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Diethylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2,4-Dimethylphenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			

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

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

con-test® ANALYTICAL LABORATORY

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

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

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-2 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12669

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Dimethylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.78			
Di-n-butylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Di-n-octylphthalate	mg/kg dry wt	ND	04/22/09	BGL	0.78			
2,4-Dinitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.78			
2,4-Dinitrotoluene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2,6-Dinitrotoluene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
1,2-Diphenylhydrazine (as Azobenzene)	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Fluoranthene	mg/kg dry wt	2.39	04/22/09	BGL	0.194			
Fluorene	mg/kg dry wt	0.239	04/22/09	BGL	0.194			
Hexachlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Hexachlorobutadiene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Hexachloroethane	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	0.903	04/22/09	BGL	0.194			
Isophorone	mg/kg dry wt	ND	04/22/09	BGL	0.39			
o-cresol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
m & p-cresol(s)	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2-Methylnaphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.194			
Naphthalene	mg/kg dry wt	ND	04/22/09	BGL	0.194			
Nitrobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2-Nitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
4-Nitrophenol	mg/kg dry wt	ND	04/22/09	BGL	0.78			
Pentachlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Phenanthrene	mg/kg dry wt	3.29	04/22/09	BGL	0.194			
Phenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
Pyrene	mg/kg dry wt	2.90	04/22/09	BGL	0.194			
1,2,4-Trichlorobenzene	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2,4,5-Trichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			
2,4,6-Trichlorophenol	mg/kg dry wt	ND	04/22/09	BGL	0.39			

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650 SUFFOLK STREET
LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
Field Sample # : SIGN-2 (0-1)

LIMS-BAT #: LIMT-24865
Job Number: 115058

Sample ID : 09B12669

‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Extraction Date 8270		4/20/2009	04/22/09	BGL				

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS.

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650 SUFFOLK STREET
LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
LIMS-BAT #: LIMT-24865
Job Number: 115058

Field Sample # : SIGN-1 (0-1)

Sample ID : 09B12668 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/kg dry wt	0.183	04/21/09	MPF	0.025			

Field Sample # : SIGN-2 (0-1)

Sample ID : 09B12669 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/kg dry wt	0.169	04/21/09	MPF	0.016			

Analytical Method:
SW846 3050/7471
SAMPLES ARE DIGESTED WITH ACIDS AND THEN ANALYZED BY
COLD VAPOR (FLAMELESS) ATOMIC ABSORPTION SPECTROPHOTOMETRY

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LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009

LIMS-BAT #: LIMT-24865
Job Number: 115058

Field Sample # : SIGN-1 (0-1)

Sample ID : 09B12668 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	85.3	04/22/09	FD				

Field Sample # : SIGN-2 (0-1)

Sample ID : 09B12669 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	86.0	04/22/09	FD				

Analytical Method:
SM 2540G
PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

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4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009
LIMS-BAT #: LIMT-24865
Job Number: 115058

Field Sample # : SIGN-1 (0-1)

Sample ID : 09B12668 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Unknown Hydrocarbons	mg/kg dry wt	63	04/23/09	CJM	40			

Field Sample # : SIGN-2 (0-1)

Sample ID : 09B12669 ‡Sampled : 4/17/2009
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Unknown Hydrocarbons	mg/kg dry wt	130	04/23/09	CJM	49			

Analytical Method:
MODIFIED SW846 8100
SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (FID). ALL PEAKS ELUTING IN THE PETROLEUM FUEL REGION ARE QUANTITATED AS #2 FUEL OIL.

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LOWELL, MA 01852

4/27/2009

Purchase Order No.:

Project Location: CITY OF NBHS (NBHS/KJH)
Date Received: 4/17/2009

LIMS-BAT #: LIMT-24865
Job Number: 115058

** END OF REPORT **

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GC/ECD-12293

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B12668					
	Decachlorobiphenyl	Surrogate Recovery	102.2	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	112.6	%	30-150
09B12669					
	Decachlorobiphenyl	Surrogate Recovery	93.1	%	30-150
	Tetrachloro-m-Xylene	Surrogate Recovery	99.0	%	30-150
BLANK-132270					
	PCB-1232	Blank	<0.100	mg/kg dry wt	
	PCB-1242	Blank	<0.100	mg/kg dry wt	
	PCB-1254	Blank	<0.100	mg/kg dry wt	
	PCB-1260	Blank	<0.100	mg/kg dry wt	
	PCB-1248	Blank	<0.100	mg/kg dry wt	
	PCB-1221	Blank	<0.100	mg/kg dry wt	
	PCB 1016	Blank	<0.100	mg/kg dry wt	
	PCB 1262	Blank	<0.100	mg/kg dry wt	
	PCB 1268	Blank	<0.100	mg/kg dry wt	
LFBLANK-94539					
	PCB-1260	Lab Fort Blank Amt.	0.050	mg/kg dry wt	
		Lab Fort Blk. Found	0.039	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.438	%	40-140
		Dup Lab Fort Bl Amt.	0.050	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.034	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	69.508	%	
		Lab Fort Blank Range	8.929	units	
		Lab Fort Bl. Av. Rec	73.973	%	
		LFB Duplicate RPD	12.071	%	0-30
	PCB 1016	Lab Fort Blank Amt.	0.050	mg/kg dry wt	
		Lab Fort Blk. Found	0.039	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.342	%	40-140
		Dup Lab Fort Bl Amt.	0.050	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.034	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	69.608	%	
		Lab Fort Blank Range	9.733	units	
		Lab Fort Bl. Av. Rec	74.475	%	
		LFB Duplicate RPD	13.070	%	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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GC/FID-23501

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-132283					
	Unknown Hydrocarbons	Blank	<8.4	mg/kg dry wt	
LFBLANK-94550					
	Unknown Hydrocarbons	Lab Fort Blank Amt.	33.3	mg/kg dry wt	
		Lab Fort Blk. Found	22.4	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.3	%	
		Dup Lab Fort Bl Amt.	33.3	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	21.7	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.3	%	
		Lab Fort Blank Range	1.9	units	
		Lab Fort Bl. Av. Rec	66.3	%	
		LFB Duplicate RPD	3.0	%	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B12668					
	Phenol-d6	Surrogate Recovery	69.8	%	30-130
	Nitrobenzene-d5	Surrogate Recovery	66.6	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	64.3	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	104.5	%	30-130
	Terphenyl-d14	Surrogate Recovery	71.4	%	30-130
	2-Fluorophenol	Surrogate Recovery	86.0	%	30-130
09B12669					
	Phenol-d6	Surrogate Recovery	69.7	%	30-130
	Nitrobenzene-d5	Surrogate Recovery	57.0	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	58.7	%	30-130
	2,4,6-Tribromophenol	Surrogate Recovery	70.7	%	30-130
	Terphenyl-d14	Surrogate Recovery	55.3	%	30-130
	2-Fluorophenol	Surrogate Recovery	72.1	%	30-130
BLANK-132248					
	1,4-Dichlorobenzene	Blank	<0.34	mg/kg dry wt	
	Naphthalene	Blank	<0.167	mg/kg dry wt	
	1,2-Dichlorobenzene	Blank	<0.34	mg/kg dry wt	
	1,3-Dichlorobenzene	Blank	<0.34	mg/kg dry wt	
	Acenaphthene	Blank	<0.167	mg/kg dry wt	
	Acenaphthylene	Blank	<0.167	mg/kg dry wt	
	Aniline	Blank	<0.34	mg/kg dry wt	
	Anthracene	Blank	<0.167	mg/kg dry wt	
	Benzo(a)anthracene	Blank	<0.167	mg/kg dry wt	
	Benzo(a)pyrene	Blank	<0.167	mg/kg dry wt	
	Benzo(b)fluoranthene	Blank	<0.167	mg/kg dry wt	
	Benzo(g,h,i)perylene	Blank	<0.167	mg/kg dry wt	
	Bis(2-chloroethyl)ether	Blank	<0.34	mg/kg dry wt	
	Bis(2-chloroethoxy)methane	Blank	<0.34	mg/kg dry wt	
	Bis(2-chloroisopropyl)ether	Blank	<0.34	mg/kg dry wt	
	Bis(2-ethylhexyl)phthalate	Blank	<0.34	mg/kg dry wt	
	4-Bromophenyl phenyl ether	Blank	<0.34	mg/kg dry wt	
	Butylbenzylphthalate	Blank	<0.67	mg/kg dry wt	
	4-Chloroaniline	Blank	<0.67	mg/kg dry wt	
	2-Chloronaphthalene	Blank	<0.34	mg/kg dry wt	
	Chrysene	Blank	<0.167	mg/kg dry wt	
	Dibenz(a,h)anthracene	Blank	<0.167	mg/kg dry wt	
	Dibenzofuran	Blank	<0.34	mg/kg dry wt	
	3,3'-Dichlorobenzidine	Blank	<0.17	mg/kg dry wt	
	Diethylphthalate	Blank	<0.34	mg/kg dry wt	
	Dimethylphthalate	Blank	<0.67	mg/kg dry wt	
	Di-n-butylphthalate	Blank	<0.34	mg/kg dry wt	
	2,4-Dinitrotoluene	Blank	<0.34	mg/kg dry wt	
	2,6-Dinitrotoluene	Blank	<0.34	mg/kg dry wt	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-132248					
	1,2-Diphenylhydrazine (as Azobenzene)	Blank	<0.34	mg/kg dry wt	
	Di-n-octylphthalate	Blank	<0.67	mg/kg dry wt	
	Fluoranthene	Blank	<0.167	mg/kg dry wt	
	Fluorene	Blank	<0.167	mg/kg dry wt	
	Hexachlorobenzene	Blank	<0.34	mg/kg dry wt	
	Hexachlorobutadiene	Blank	<0.34	mg/kg dry wt	
	Hexachloroethane	Blank	<0.34	mg/kg dry wt	
	Indeno(1,2,3-cd)pyrene	Blank	<0.167	mg/kg dry wt	
	Isophorone	Blank	<0.34	mg/kg dry wt	
	2-Methylnaphthalene	Blank	<0.167	mg/kg dry wt	
	Nitrobenzene	Blank	<0.34	mg/kg dry wt	
	Phenanthrene	Blank	<0.167	mg/kg dry wt	
	Pyrene	Blank	<0.167	mg/kg dry wt	
	1,2,4-Trichlorobenzene	Blank	<0.34	mg/kg dry wt	
	2-Chlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dichlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dimethylphenol	Blank	<0.34	mg/kg dry wt	
	2,4-Dinitrophenol	Blank	<0.67	mg/kg dry wt	
	o-cresol	Blank	<0.34	mg/kg dry wt	
	m & p-cresol(s)	Blank	<0.34	mg/kg dry wt	
	2-Nitrophenol	Blank	<0.34	mg/kg dry wt	
	4-Nitrophenol	Blank	<0.67	mg/kg dry wt	
	Phenol	Blank	<0.34	mg/kg dry wt	
	2,4,5-Trichlorophenol	Blank	<0.34	mg/kg dry wt	
	2,4,6-Trichlorophenol	Blank	<0.34	mg/kg dry wt	
	Pentachlorophenol	Blank	<0.34	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.167	mg/kg dry wt	
	Acetophenone	Blank	<0.34	mg/kg dry wt	
LFBLANK-94516					
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.24	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.69	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.81	%	
		Lab Fort Blank Range	6.12	units	
		Lab Fort Bl. Av. Rec	77.75	%	
		LFB Duplicate RPD	7.87	%	0-30
	Naphthalene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.076	mg/kg dry wt	
		Lab Fort Blk. % Rec.	64.579	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.137	mg/kg dry wt	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Naphthalene	Dup Lab Fort Bl %Rec	68.219	%	
		Lab Fort Blank Range	3.640	units	
		Lab Fort Bl. Av. Rec	66.399	%	
		LFB Duplicate RPD	5.481	%	0-30
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.24	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.77	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.25	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.04	%	
		Lab Fort Blank Range	0.26	units	
		Lab Fort Bl. Av. Rec	74.90	%	
		LFB Duplicate RPD	0.34	%	0-30
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.13	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.27	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.19	%	
		Lab Fort Blank Range	0.05	units	
		Lab Fort Bl. Av. Rec	76.16	%	
		LFB Duplicate RPD	0.07	%	0-30
	Acenaphthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.116	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.979	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.192	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.539	%	
		Lab Fort Blank Range	4.560	units	
		Lab Fort Bl. Av. Rec	69.259	%	
		LFB Duplicate RPD	6.583	%	0-30
	Acenaphthylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.103	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.179	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.186	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.200	%	
		Lab Fort Blank Range	5.020	units	
		Lab Fort Bl. Av. Rec	68.690	%	
		LFB Duplicate RPD	7.308	%	0-30
	Aniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.71	mg/kg dry wt	
		Lab Fort Blk. % Rec.	42.69	%	10-140

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Aniline	Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.67	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	40.43	%	
		Lab Fort Blank Range	2.26	units	
		Lab Fort Bl. Av. Rec	41.56	%	
		LFB Duplicate RPD	5.43	%	0-50
	Anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.164	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.880	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.267	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.019	%	
		Lab Fort Blank Range	6.139	units	
		Lab Fort Bl. Av. Rec	72.950	%	
		LFB Duplicate RPD	8.416	%	0-30
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.145	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.719	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.250	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	74.999	%	
		Lab Fort Blank Range	6.280	units	
		Lab Fort Bl. Av. Rec	71.859	%	
		LFB Duplicate RPD	8.739	%	0-30
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.123	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.420	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.241	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	74.479	%	
		Lab Fort Blank Range	7.059	units	
		Lab Fort Bl. Av. Rec	70.949	%	
		LFB Duplicate RPD	9.950	%	0-30
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.060	mg/kg dry wt	
		Lab Fort Blk. % Rec.	63.599	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.172	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.360	%	
		Lab Fort Blank Range	6.760	units	
		Lab Fort Bl. Av. Rec	66.980	%	
		LFB Duplicate RPD	10.092	%	0-30
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Benzo(g,h,i)perylene	Lab Fort Blk. Found	1.121	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.300	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.288	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	77.320	%	
		Lab Fort Blank Range	10.020	units	
		Lab Fort Bl. Av. Rec	72.310	%	
		LFB Duplicate RPD	13.857	%	0-30
	Bis(2-chloroethyl)ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.99	mg/kg dry wt	
		Lab Fort Blk. % Rec.	59.63	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.04	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	62.75	%	
		Lab Fort Blank Range	3.11	units	
		Lab Fort Bl. Av. Rec	61.19	%	
		LFB Duplicate RPD	5.09	%	0-30
	Bis(2-chloroethoxy)methane	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.25	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.25	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.35	%	
		Lab Fort Blank Range	3.10	units	
		Lab Fort Bl. Av. Rec	73.80	%	
		LFB Duplicate RPD	4.19	%	0-30
	Bis(2-chloroisopropyl)ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.04	mg/kg dry wt	
		Lab Fort Blk. % Rec.	62.87	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.08	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.14	%	
		Lab Fort Blank Range	2.26	units	
		Lab Fort Bl. Av. Rec	64.01	%	
		LFB Duplicate RPD	3.53	%	0-30
	Bis(2-ethylhexyl)phthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.85	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.37	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.73	%	
		Lab Fort Blank Range	6.88	units	
		Lab Fort Bl. Av. Rec	79.29	%	

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Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Bis(2-ethylhexyl)phthalate	LFB Duplicate RPD	8.67	%	0-30
	4-Bromophenyl phenyl ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.25	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.29	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.69	%	
		Lab Fort Blank Range	5.39	units	
		Lab Fort Bl. Av. Rec	77.99	%	
		LFB Duplicate RPD	6.92	%	0-30
	Butylbenzylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.23	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.84	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.41	%	
		Lab Fort Blank Range	6.57	units	
		Lab Fort Bl. Av. Rec	77.12	%	
		LFB Duplicate RPD	8.53	%	0-30
	4-Chloroaniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.65	mg/kg dry wt	
		Lab Fort Blk. % Rec.	39.20	%	10-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.74	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	44.42	%	
		Lab Fort Blank Range	5.22	units	
		Lab Fort Bl. Av. Rec	41.81	%	
		LFB Duplicate RPD	12.48	%	0-30
	2-Chloronaphthalene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.07	mg/kg dry wt	
		Lab Fort Blk. % Rec.	64.60	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.16	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	69.64	%	
		Lab Fort Blank Range	5.04	units	
		Lab Fort Bl. Av. Rec	67.12	%	
		LFB Duplicate RPD	7.50	%	0-30
	Chrysene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.166	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.000	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.258	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.479	%	

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QC SUMMARY REPORT

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Method Blanks

Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Chrysene	Lab Fort Blank Range	5.479	units	
		Lab Fort Bl. Av. Rec	72.740	%	
		LFB Duplicate RPD	7.533	%	0-30
	Dibenz(a,h)anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.144	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.639	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.251	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.100	%	
		Lab Fort Blank Range	6.460	units	
		Lab Fort Bl. Av. Rec	71.870	%	
		LFB Duplicate RPD	8.988	%	0-30
	Dibenzofuran	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.31	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.88	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.40	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	84.04	%	
		Lab Fort Blank Range	5.15	units	
		Lab Fort Bl. Av. Rec	81.45	%	
		LFB Duplicate RPD	6.33	%	0-30
	3,3'-Dichlorobenzidine	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.72	mg/kg dry wt	
		Lab Fort Blk. % Rec.	43.33	%	20-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.83	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	50.17	%	
		Lab Fort Blank Range	6.83	units	
		Lab Fort Bl. Av. Rec	46.75	%	
		LFB Duplicate RPD	14.62	%	0-50
	Diethylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.25	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.41	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.35	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	81.47	%	
		Lab Fort Blank Range	6.05	units	
		Lab Fort Bl. Av. Rec	78.44	%	
		LFB Duplicate RPD	7.72	%	0-30
	Dimethylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.03	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	

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QC SUMMARY REPORT

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BATCH QC: Lab fortified Blanks and Duplicates
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Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Dimethylphthalate	Dup Lab Fort Bl. Fnd	1.31	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.79	%	
		Lab Fort Blank Range	5.76	units	
		Lab Fort Bl. Av. Rec	75.91	%	
		LFB Duplicate RPD	7.58	%	0-30
	Di-n-butylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.23	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.33	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.35	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	81.23	%	
		Lab Fort Blank Range	6.89	units	
		Lab Fort Bl. Av. Rec	77.78	%	
		LFB Duplicate RPD	8.87	%	0-30
	2,4-Dinitrotoluene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.41	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.79	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.51	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.00	%	
		Lab Fort Blank Range	6.20	units	
		Lab Fort Bl. Av. Rec	87.89	%	
		LFB Duplicate RPD	7.05	%	0-30
	2,6-Dinitrotoluene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.41	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.79	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.51	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.00	%	
		Lab Fort Blank Range	6.20	units	
		Lab Fort Bl. Av. Rec	87.89	%	
		LFB Duplicate RPD	7.05	%	0-30
	1,2-Diphenylhydrazine (as Azobenzene)	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.73	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.35	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	81.09	%	
		Lab Fort Blank Range	5.36	units	
		Lab Fort Bl. Av. Rec	78.41	%	
		LFB Duplicate RPD	6.83	%	0-30
	Di-n-octylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	

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Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Di-n-octylphthalate	Lab Fort Blk. % Rec.	68.87	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.53	%	
		Lab Fort Blank Range	11.65	units	
		Lab Fort Bl. Av. Rec	74.70	%	
		LFB Duplicate RPD	15.60	%	0-30
	Fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.180	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.799	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.288	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	77.299	%	
		Lab Fort Blank Range	6.499	units	
		Lab Fort Bl. Av. Rec	74.049	%	
		LFB Duplicate RPD	8.777	%	0-30
	Fluorene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.207	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.439	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.271	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.259	%	
		Lab Fort Blank Range	3.820	units	
		Lab Fort Bl. Av. Rec	74.349	%	
		LFB Duplicate RPD	5.137	%	0-30
	Hexachlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.37	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.38	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.15	%	
		Lab Fort Blank Range	6.77	units	
		Lab Fort Bl. Av. Rec	79.76	%	
		LFB Duplicate RPD	8.49	%	0-30
	Hexachlorobutadiene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.24	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.89	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.27	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.75	%	
		Lab Fort Blank Range	1.86	units	
		Lab Fort Bl. Av. Rec	75.82	%	
		LFB Duplicate RPD	2.45	%	0-30

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QC SUMMARY REPORT

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Method Blanks

Report Date: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Hexachloroethane	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.63	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.31	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.88	%	
		Lab Fort Blank Range	2.24	units	
		Lab Fort Bl. Av. Rec	77.75	%	
		LFB Duplicate RPD	2.88	%	0-30
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.178	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.699	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.327	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	79.619	%	
		Lab Fort Blank Range	8.920	units	
		Lab Fort Bl. Av. Rec	75.159	%	
		LFB Duplicate RPD	11.868	%	0-30
	Isophorone	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.25	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.41	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.31	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.64	%	
		Lab Fort Blank Range	3.22	units	
		Lab Fort Bl. Av. Rec	77.03	%	
		LFB Duplicate RPD	4.18	%	0-30
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.205	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.340	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.279	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.780	%	
		Lab Fort Blank Range	4.439	units	
		Lab Fort Bl. Av. Rec	74.560	%	
		LFB Duplicate RPD	5.954	%	0-30
	Nitrobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.91	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.25	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.01	%	
		Lab Fort Blank Range	2.09	units	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Nitrobenzene	Lab Fort Bl. Av. Rec	73.96	%	
		LFB Duplicate RPD	2.83	%	0-30
	Phenanthrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.152	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.139	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.259	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.580	%	
		Lab Fort Blank Range	6.440	units	
		Lab Fort Bl. Av. Rec	72.359	%	
		LFB Duplicate RPD	8.899	%	0-30
	Pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.078	mg/kg dry wt	
		Lab Fort Blk. % Rec.	64.679	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.167	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.039	%	
		Lab Fort Blank Range	5.359	units	
		Lab Fort Bl. Av. Rec	67.359	%	
		LFB Duplicate RPD	7.957	%	0-30
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.54	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.33	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.38	%	
		Lab Fort Blank Range	3.84	units	
		Lab Fort Bl. Av. Rec	78.46	%	
		LFB Duplicate RPD	4.89	%	0-30
	2-Chlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.57	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.36	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	81.67	%	
		Lab Fort Blank Range	2.10	units	
		Lab Fort Bl. Av. Rec	80.62	%	
		LFB Duplicate RPD	2.60	%	0-30
	2,4-Dichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.43	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.20	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.51	mg/kg dry wt	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	2,4-Dichlorophenol	Dup Lab Fort Bl %Rec	90.82	%	
		Lab Fort Blank Range	4.61	units	
		Lab Fort Bl. Av. Rec	88.51	%	
		LFB Duplicate RPD	5.21	%	0-30
	2,4-Dimethylphenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.35	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.37	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.43	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.97	%	
		Lab Fort Blank Range	4.60	units	
		Lab Fort Bl. Av. Rec	83.67	%	
		LFB Duplicate RPD	5.49	%	0-30
	2,4-Dinitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.06	mg/kg dry wt	
		Lab Fort Blk. % Rec.	63.76	%	10-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.02	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	61.33	%	
		Lab Fort Blank Range	2.42	units	
		Lab Fort Bl. Av. Rec	62.54	%	
		LFB Duplicate RPD	3.86	%	0-30
	o-cresol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.32	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.36	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.37	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.73	%	
		Lab Fort Blank Range	3.37	units	
		Lab Fort Bl. Av. Rec	81.05	%	
		LFB Duplicate RPD	4.17	%	0-30
	m & p-cresol(s)	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.28	mg/kg dry wt	
		Lab Fort Blk. % Rec.	77.38	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	80.41	%	
		Lab Fort Blank Range	3.03	units	
		Lab Fort Bl. Av. Rec	78.89	%	
		LFB Duplicate RPD	3.85	%	0-30
	2-Nitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.19	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.71	%	30-130

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	2-Nitrophenol	Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.28	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	77.21	%	
		Lab Fort Blank Range	5.50	units	
		Lab Fort Bl. Av. Rec	74.46	%	
		LFB Duplicate RPD	7.38	%	0-30
	4-Nitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.41	mg/kg dry wt	
		Lab Fort Blk. % Rec.	85.07	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.44	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.71	%	
		Lab Fort Blank Range	1.63	units	
		Lab Fort Bl. Av. Rec	85.89	%	
		LFB Duplicate RPD	1.90	%	0-50
	Phenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.27	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.37	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.61	%	
		Lab Fort Blank Range	0.34	units	
		Lab Fort Bl. Av. Rec	82.44	%	
		LFB Duplicate RPD	0.41	%	0-30
	2,4,5-Trichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.43	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.14	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.60	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	96.07	%	
		Lab Fort Blank Range	9.93	units	
		Lab Fort Bl. Av. Rec	91.10	%	
		LFB Duplicate RPD	10.90	%	0-30
	2,4,6-Trichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.33	mg/kg dry wt	
		Lab Fort Blk. % Rec.	79.84	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.41	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	84.97	%	
		Lab Fort Blank Range	5.13	units	
		Lab Fort Bl. Av. Rec	82.40	%	
		LFB Duplicate RPD	6.23	%	0-30
	Pentachlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: GCMS/SEMI-12198

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94516					
	Pentachlorophenol	Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.83	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.23	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	73.79	%	
		Lab Fort Blank Range	2.04	units	
		Lab Fort Bl. Av. Rec	74.81	%	
		LFB Duplicate RPD	2.72	%	0-30
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.070	mg/kg dry wt	
		Lab Fort Blk. % Rec.	64.199	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.205	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.340	%	
		Lab Fort Blank Range	8.140	units	
		Lab Fort Bl. Av. Rec	68.270	%	
		LFB Duplicate RPD	11.923	%	0-30
	Acetophenone	Lab Fort Blank Amt.	0.83	mg/kg dry wt	
		Lab Fort Blk. Found	0.57	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.59	%	40-140
		Dup Lab Fort Bl Amt.	0.83	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.58	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	69.68	%	
		Lab Fort Blank Range	0.08	units	
		Lab Fort Bl. Av. Rec	69.64	%	
		LFB Duplicate RPD	0.11	%	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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: HG-10027

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B12669					
	Mercury	Sample Amount	0.168	mg/kg dry wt	
		Duplicate Value	0.206	mg/kg dry wt	
		Duplicate RPD	20.237	%	0-35
		Sample Amount	0.168	mg/kg dry wt	
		Matrix Spk Amt Added	0.274	mg/kg dry wt	
		MS Amt Measured	0.511	mg/kg dry wt	
		Matrix Spike % Rec.	124.589	%	75-125
BLANK-132155					
	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-94413					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	
		Lab Fort Blk. Found	1.178	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.313	%	72-128
		Dup Lab Fort Bl Amt.	1.250	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.315	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	105.212	%	72-128
		Lab Fort Blank Range	10.898	units	
		Lab Fort Bl. Av. Rec	99.763	%	
		LFB Duplicate RPD	10.924	%	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: ICP-21648

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-132247					
	Silver	Blank	<0.50	mg/kg dry wt	
	Arsenic	Blank	<2.50	mg/kg dry wt	
	Barium	Blank	<5.00	mg/kg dry wt	
	Beryllium	Blank	<0.25	mg/kg dry wt	
	Cadmium	Blank	<0.25	mg/kg dry wt	
	Chromium	Blank	<0.50	mg/kg dry wt	
	Nickel	Blank	<0.50	mg/kg dry wt	
	Lead	Blank	<0.75	mg/kg dry wt	
	Antimony	Blank	<4.00	mg/kg dry wt	
	Selenium	Blank	<5.00	mg/kg dry wt	
	Thallium	Blank	<3.00	mg/kg dry wt	
	Vanadium	Blank	<5.00	mg/kg dry wt	
	Zinc	Blank	1.10	mg/kg dry wt	
LFBLANK-94515					
	Silver	Lab Fort Blank Amt.	62.40	mg/kg dry wt	
		Lab Fort Blk. Found	55.42	mg/kg dry wt	
		Lab Fort Blk. % Rec.	88.81	%	66-134
		Dup Lab Fort Bl Amt.	62.40	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	54.97	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	88.09	%	66-134
		Lab Fort Blank Range	0.72	units	
		Lab Fort Bl. Av. Rec	88.45	%	
		LFB Duplicate RPD	0.81	%	0-30
	Arsenic	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	118.44	mg/kg dry wt	
		Lab Fort Blk. % Rec.	96.29	%	83-117
		Dup Lab Fort Bl Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	119.93	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	97.50	%	83-117
		Lab Fort Blank Range	1.21	units	
		Lab Fort Bl. Av. Rec	96.89	%	
		LFB Duplicate RPD	1.25	%	0-30
	Barium	Lab Fort Blank Amt.	256.00	mg/kg dry wt	
		Lab Fort Blk. Found	253.36	mg/kg dry wt	
		Lab Fort Blk. % Rec.	98.96	%	80-120
		Dup Lab Fort Bl Amt.	256.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	249.26	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	97.36	%	80-120
		Lab Fort Blank Range	1.60	units	
		Lab Fort Bl. Av. Rec	98.16	%	
		LFB Duplicate RPD	1.63	%	0-30
	Beryllium	Lab Fort Blank Amt.	75.90	mg/kg dry wt	
		Lab Fort Blk. Found	75.30	mg/kg dry wt	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: ICP-21648

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94515					
	Beryllium	Lab Fort Blk. % Rec.	99.20	%	83-117
		Dup Lab Fort Bl Amt.	75.90	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	72.62	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	95.67	%	83-117
		Lab Fort Blank Range	3.53	units	
		Lab Fort Bl. Av. Rec	97.44	%	
		LFB Duplicate RPD	3.62	%	0-30
	Cadmium	Lab Fort Blank Amt.	258.00	mg/kg dry wt	
		Lab Fort Blk. Found	268.88	mg/kg dry wt	
		Lab Fort Blk. % Rec.	104.21	%	84-117
		Dup Lab Fort Bl Amt.	258.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	258.88	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	100.34	%	84-117
		Lab Fort Blank Range	3.87	units	
		Lab Fort Bl. Av. Rec	102.27	%	
		LFB Duplicate RPD	3.78	%	0-30
	Chromium	Lab Fort Blank Amt.	138.00	mg/kg dry wt	
		Lab Fort Blk. Found	138.18	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.13	%	82-118
		Dup Lab Fort Bl Amt.	138.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	142.15	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	103.00	%	82-118
		Lab Fort Blank Range	2.87	units	
		Lab Fort Bl. Av. Rec	101.56	%	
		LFB Duplicate RPD	2.83	%	0-30
	Nickel	Lab Fort Blank Amt.	111.00	mg/kg dry wt	
		Lab Fort Blk. Found	110.08	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.17	%	84-117
		Dup Lab Fort Bl Amt.	111.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	107.22	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	96.59	%	84-117
		Lab Fort Blank Range	2.57	units	
		Lab Fort Bl. Av. Rec	97.88	%	
		LFB Duplicate RPD	2.63	%	0-30
	Lead	Lab Fort Blank Amt.	136.00	mg/kg dry wt	
		Lab Fort Blk. Found	121.16	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.08	%	81-120
		Dup Lab Fort Bl Amt.	136.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	121.52	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	89.35	%	81-120
		Lab Fort Blank Range	0.26	units	
		Lab Fort Bl. Av. Rec	89.22	%	
		LFB Duplicate RPD	0.29	%	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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: ICP-21648

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94515					
	Antimony	Lab Fort Blank Amt.	138.00	mg/kg dry wt	
		Lab Fort Blk. Found	112.94	mg/kg dry wt	
		Lab Fort Blk. % Rec.	81.84	%	30-233
		Dup Lab Fort Bl Amt.	138.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	114.92	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.27	%	30-233
		Lab Fort Blank Range	1.43	units	
		Lab Fort Bl. Av. Rec	82.55	%	
		LFB Duplicate RPD	1.73	%	0-30
	Selenium	Lab Fort Blank Amt.	199.00	mg/kg dry wt	
		Lab Fort Blk. Found	188.99	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.96	%	80-120
		Dup Lab Fort Bl Amt.	199.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	191.53	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	96.24	%	80-120
		Lab Fort Blank Range	1.27	units	
		Lab Fort Bl. Av. Rec	95.60	%	
		LFB Duplicate RPD	1.33	%	0-30
	Thallium	Lab Fort Blank Amt.	297.00	mg/kg dry wt	
		Lab Fort Blk. Found	295.50	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.49	%	81-119
		Dup Lab Fort Bl Amt.	297.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	295.95	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.64	%	81-119
		Lab Fort Blank Range	0.15	units	
		Lab Fort Bl. Av. Rec	99.57	%	
		LFB Duplicate RPD	0.15	%	0-30
	Vanadium	Lab Fort Blank Amt.	158.00	mg/kg dry wt	
		Lab Fort Blk. Found	163.66	mg/kg dry wt	
		Lab Fort Blk. % Rec.	103.58	%	80-120
		Dup Lab Fort Bl Amt.	158.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	160.97	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	101.88	%	80-120
		Lab Fort Blank Range	1.69	units	
		Lab Fort Bl. Av. Rec	102.73	%	
		LFB Duplicate RPD	1.65	%	0-30
	Zinc	Lab Fort Blank Amt.	314.00	mg/kg dry wt	
		Lab Fort Blk. Found	296.45	mg/kg dry wt	
		Lab Fort Blk. % Rec.	94.41	%	82-118
		Dup Lab Fort Bl Amt.	314.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	287.80	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.65	%	82-118
		Lab Fort Blank Range	2.75	units	

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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: 4/27/2009 Lims Bat # : LIMT-24865

QC Batch Number: ICP-21648

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-94515					
	Zinc	Lab Fort Bl. Av. Rec	93.03	%	
		LFB Duplicate RPD	2.96	%	0-30

con-test ANALYTICAL LABORATORY

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

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
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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 #: LMT-24865
Project Location: CITY OF NEW BEDFORD	MADEP RTN[1]:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]
09B12668-09B12669

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

MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
As specified in MADEP Compendium of Analytical Methods. (check all that apply)	8082 (X)	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?	☒ Yes ☐ 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?	☒ Yes ☐ 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"?	☒ Yes ☐ No[1]
D	***VPH and EPH Methods only***: Was the VPH or EPH Method conducted without significant modifications (see Section 11.3 of respective Methods)	☐ Yes ☐ 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?	☐ Yes ☒ No[1]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☒ Yes ☐ 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: Edward Denson	**Position: Technical Director**
Printed Name: Edward Denson	**Date:** 4/27/09

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CHAIN OF CUSTODY RECORD

Limt-24865

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

Company Name: TRC
Address: 650 Suffolk St.
Lowell MA 01854
Attention: David Sullivan
Project Location: City of NBHS (NBHS/KJH)
Sampled By: J Saunders / K. Kitchin

Telephone: (978) 656-3565
Project # 115058
Client PO #

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

Proposal Provided? (For Billing purposes) ☒ yes 2007 proposal date
State Form Required? ☒ yes ☐ no

Field ID	Sample Description	Lab # 09B	Date Sampled Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	Total Lead	SVOCs	PCBs (8082)	TPH 8100	MCP Metals + Hg	TCLP Metals *							
									1	1	1	1	1	1							# of containers
									I	I	I	I	I	I							**Preservation
									G	G	G	G	G	G							~Cont.Code
	SIGN-1 (0-1) **	12668/70	4/17/09	1240		G	S	U		X	X	X	X	X		(Standard 5-day turnaround)					
	SIGN-2 (0-1) **	12669/71	↓	1255		G	S	U		X	X	X	X	X		(Standard 5-day turnaround)					
	A5-6 (1-3) (Hold)		4/17/09	1355		G	S	U	X								(Hold)				

ANALYSIS REQUESTED

~Cont. Code: A=amber glass, G=glass, P=plastic, ST=sterile, V=vial, S=summa can, T=tedlar bag, O=Other

Client Comments:
* Rush 48-72 hr. turnaround unless otherwise noted
↓
Hold all samples for TCLP analysis
** 3 8oz jars per sample

Laboratory Comments:
⊛ Per attached email, TCLP metals on hold.
MK 4/22/09 → See 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: 4/17/09 1500	
Received by: (signature)	Date/Time: 4/17 1500	
Relinquished by: (signature)	Date/Time: 4/17/09 1945	
Received by: (signature) Temp 4°	Date/Time: 4/17/09 19:45	

Turnaround **
☐ 7-Day
☐ 10-Day
☒ Other 5 day
RUSH *
☐ *24-Hr ☒ *48-Hr
☒ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? MCP S-1/S-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
X = Na hydroxide
T = Na thiosulfate

** 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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State Form Required? ☒ yes ☐ no

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									1											# of containers
									I											**Preservation
									G											~Cont.Code
	A3-3 (0-1) ~~(Hold)~~	05	4/17/09	0910		G	S	U	X									~~(Hold)~~	05	
	A3-3 (1-3) (plus MS/Dup) ~~(Hold)~~	05		0915					X							(Plus MS/Dup.)		~~(Hold)~~	05	
	A3-5 (0-1) (Hold)			0935					X									(Hold)		
	A3-5 (1-3) (Hold)			0940					X									(Hold)		
	A3-2 (0-1)			0945					X											
	A3-2 (1-3)			0950					X											
	A3-7 (0-1) (Hold)			1000					X									(Hold)		
	A3-7 (1-3) (Hold)		4/17/09	1005		G	S	U	X									(Hold)		

ANALYSIS REQUESTED

~Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

Client Comments:
* Rush 48-72 hr. turnaround on all Samples & Hold all Samples for TCLP analysis

aboratory 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:
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eceived by: (signature)	Date/Time: 4/17 15:00	
elinquished by: (signature)	Date/Time: 4/17 19 45	
eceived by: (signature) Temp 4°C	Date/Time: 4/17/09 19:45	

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other
RUSH *
☐ *24-Hr ☒ *48-Hr
☒ *72-Hr ☐ *4-Day
* Require lab approval

Detection Limit Requirements
Regulations? MCP S-1/S-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
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Attention: David Sullivan
Project Location: City of NB (KOH)
Sampled By: J Saunders / K. Kitchin

Telephone: (978) 656-3565
Project # 115058
Client PO #

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☐ OTHER

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									1									# of containers
									3									**Preservation
									6									~Cont.Code
	A3-6 (0-1) (Hold)		4/17/09	1010		G	S	U	X								(Hold)	
	A3-6 (1-3) (Hold)			1015					X								(Hold)	
	A3-4 (0-1)			1020					X									
	A3-4 (1-3)			1025					X									
	A3-1 (0-1)			1030					X									
	A3-1 (1-3)			1035					X									
	A3-8 (0-1) (Hold)			1040					X								(Hold)	
	A3-8 (1-3) (Hold)		4/17/09	1045		G	S	U	X								(Hold)	

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Received by: (signature) Temp 4°C	Date/Time: 4/17/09 19:45	

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH *
☐ *24-Hr ☒ *48-Hr
☒ *72-Hr ☐ *4-Day
* Require lab approval

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Regulations? MCP S-1/S-2
Data Enhancement Project/RCP? ☒ Y ☐ N
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										1													# of containers
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	A3-9 (0-1) (Hold)		4/17/09	1100		G	S	U	X									(Hold)					
	A3-9 (1-3) (Hold)			1105					X									(Hold)					
	TRC-45A (0-1)			1130					X														
	TRC-45A (1-3)			1135					X														
	A5-1 (0.5-1.0)			1225					X														
	A5-1 (1-3)			1230					X														
	A5-2 (0.5-1)			1240					X														
	A5-2 (1-3)		4/17/09	1245		G	S	U	X														

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									I									
									G									
	A5-2D (1-3)		4/17/09	1145		G	S	U	X									
	A5-3 (0.5-1)			1305					X									
	A5-3 (1-3)			1310					X									
	A5-4 ~~(0.5)~~ (0.5-1)			1325					X									
	A5-4 (1-3)			1330					X									
	A5-5 (0.5-1) (Hold)			1340					X								(Hold)	
	A5-5 (1-3) (Hold)			1345					X								(Hold)	
	A5-6 (0.5-1) (Hold)		4/17/09	1350		G	S	U	X								(Hold)	

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Sample Receipt Checklist

CLIENT NAME: TRC MA RECEIVED BY: KO DATE: 4/17/09

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 [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No

Temperature °C by Temp blank 4°C 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: Log in cart

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	40
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

Subject: RE: City of New Bedford (NBHS/KJH)
From: "Saunders, Jeffry \(Lowell,MA-US\)" <JSaunders@TRCSOLUTIONS.com>
Date: Tue, 21 Apr 2009 12:01:09 -0400
To: <mkelley@contestlabs.com>
CC: "Sullivan, Dave \(Lowell,MA-US\)" <DSullivan@trcsolutions.com>, <tferrentino@contestlabs.com>

Meghan,

All of the samples for TCLP from 4/17/09 should be on hold at this point (I believe the chain-of-custody forms reflect this). In the case of the samples "SIGN-1" and "SIGN-2" please hold the samples for TCLP RCRA-8 metals. All of the other samples can be held for TCLP Lead. Dave Sullivan will alert you should we require any of the TCLP analyses to be run. Thanks.

-Jeff

From: Sullivan, Dave (Lowell,MA-US)
Sent: Tuesday, April 21, 2009 11:48 AM
To: Saunders, Jeffry (Lowell,MA-US)
Subject: FW: City of New Bedford (NBHS/KJH)

Please help.

-Dave

David M. Sullivan, LSP, CHMM
Senior Project Manager

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Wannalancit Mills
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978-453-1995 fax
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dsullivan@trcsolutions.com

From: tferrentino@contestlabs.com [mailto:tferrentino@contestlabs.com]
Sent: Tuesday, April 21, 2009 9:42 AM
To: Sullivan, Dave (Lowell,MA-US)
Subject: City of New Bedford (NBHS/KJH)

Hi Dave,

Theresa is out of the office today but the lab wanted me to confirm that for the samples that came on 4/17, you wanted TCLP RCRA 8?

Please advise,
Meghan

Theresa Ferrentino
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