con-test®
ANALYTICAL LABORATORY

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

REPORT DATE 12/23/2008

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

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22160
JOB NUMBER: 115058.0000

PROJECT LOCATION: NEW BEDFORD, MA.

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
SS-63	08B50255	SOIL	Not Specified	6010 drywt mcp	
SS-63	08B50255	SOIL	Not Specified	hg (mg/kg) dw	
SS-63	08B50255	SOIL	Not Specified	pah - sludge	
SS-63	08B50255	SOIL	Not Specified	solids (percent)	
SS-64	08B50256	SOIL	Not Specified	6010 drywt mcp	
SS-64	08B50256	SOIL	Not Specified	hg (mg/kg) dw	
SS-64	08B50256	SOIL	Not Specified	pah - sludge	
SS-64	08B50256	SOIL	Not Specified	solids (percent)	
SS-65	08B50257	SOIL	Not Specified	6010 drywt mcp	
SS-65	08B50257	SOIL	Not Specified	hg (mg/kg) dw	
SS-65	08B50257	SOIL	Not Specified	pah - sludge	
SS-65	08B50257	SOIL	Not Specified	solids (percent)	

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CONTRACT NUMBER:
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ANALYTICAL SUMMARY

LIMS BAT #: LIMT-22160
JOB NUMBER: 115058.0000

Comments :

LIMS BATCH NO. : LIMT-22160

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 6010, the low level calibration check is outside control limits for Zinc. Reported results for this element at or near the reporting limit may be bias on the high side.

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

DETAILED CASE NARRATIVE

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.

All analyte list compounds were reported for method 8270 unless listed below:

Only PAH compounds were requested and reported.

8270 QC SURROGATE RECOVERIES

BLANK-127947

NITROBENZENE-D5:	80%
2-FLUOROBIPHENYL:	80%
TERPHENYL-D14:	89%

LFBLANK-89948	LFB	LFB DUPLICATE
NITROBENZENE-D5:	80%	79%
2-FLUOROBIPHENYL:	79%	75%

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LIMS BAT #: LIMT-22160
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TERPHENYL-D14:	109%	99%

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 12/24/08

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

12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-63

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50255

‡Sampled : 12/15/2008
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	12/22/08	OP	4.84			
Arsenic	mg/kg dry wt	ND	12/22/08	OP	3.02			
Barium	mg/kg dry wt	15.5	12/22/08	OP	6.04			
Beryllium	mg/kg dry wt	ND	12/22/08	OP	0.31			
Cadmium	mg/kg dry wt	ND	12/22/08	OP	0.31			
Chromium	mg/kg dry wt	3.84	12/22/08	OP	0.61			
Lead	mg/kg dry wt	6.35	12/22/08	OP	0.91			
Nickel	mg/kg dry wt	4.02	12/22/08	OP	0.61			
Selenium	mg/kg dry wt	ND	12/22/08	OP	6.04			
Silver	mg/kg dry wt	ND	12/22/08	OP	0.61			
Thallium	mg/kg dry wt	ND	12/22/08	OP	3.63			
Vanadium	mg/kg dry wt	7.21	12/22/08	OP	6.04			
Zinc	mg/kg dry wt	26.0	12/22/08	OP	1.21			

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

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.

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

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TRC SOLUTIONS - LOWELL
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LOWELL, MA 01852

12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-64

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50256

‡Sampled : 12/15/2008
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	12/22/08	OP	7.43			
Arsenic	mg/kg dry wt	ND	12/22/08	OP	4.64			
Barium	mg/kg dry wt	18.8	12/22/08	OP	9.28			
Beryllium	mg/kg dry wt	ND	12/22/08	OP	0.47			
Cadmium	mg/kg dry wt	ND	12/22/08	OP	0.47			
Chromium	mg/kg dry wt	5.45	12/22/08	OP	0.93			
Lead	mg/kg dry wt	15.7	12/22/08	OP	1.40			
Nickel	mg/kg dry wt	4.51	12/22/08	OP	0.93			
Selenium	mg/kg dry wt	ND	12/22/08	OP	9.28			
Silver	mg/kg dry wt	ND	12/22/08	OP	0.93			
Thallium	mg/kg dry wt	ND	12/22/08	OP	5.57			
Vanadium	mg/kg dry wt	ND	12/22/08	OP	9.28			
Zinc	mg/kg dry wt	27.6	12/22/08	OP	1.86			

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

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LOWELL, MA 01852

12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-65

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50257

‡Sampled : 12/15/2008
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	12/22/08	OP	5.99			
Arsenic	mg/kg dry wt	ND	12/22/08	OP	3.75			
Barium	mg/kg dry wt	41.2	12/22/08	OP	7.49			
Beryllium	mg/kg dry wt	ND	12/22/08	OP	0.38			
Cadmium	mg/kg dry wt	ND	12/22/08	OP	0.38			
Chromium	mg/kg dry wt	8.43	12/22/08	OP	0.75			
Lead	mg/kg dry wt	16.9	12/22/08	OP	1.13			
Nickel	mg/kg dry wt	10.4	12/22/08	OP	0.75			
Selenium	mg/kg dry wt	ND	12/22/08	OP	7.49			
Silver	mg/kg dry wt	ND	12/22/08	OP	0.75			
Thallium	mg/kg dry wt	ND	12/22/08	OP	4.50			
Vanadium	mg/kg dry wt	11.9	12/22/08	OP	7.49			
Zinc	mg/kg dry wt	32.3	12/22/08	OP	1.50			

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

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12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Field Sample # : SS-63

Sample ID : 08B50255 ‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/kg dry wt	ND	12/22/08	KM	0.014			

Field Sample # : SS-64

Sample ID : 08B50256 ‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/kg dry wt	ND	12/22/08	KM	0.024			

Field Sample # : SS-65

Sample ID : 08B50257 ‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Mercury	mg/kg dry wt	ND	12/22/08	KM	0.031			

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

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12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-63

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50255

‡Sampled : 12/15/2008
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	12/23/08	BGL	0.202			
Acenaphthylene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Benzo(a)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Benzo(a)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Benzo(b)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Benzo(k)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Chrysene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Fluorene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
2-Methylnaphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Naphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Phenanthrene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.202			
Extraction Date 8270		12/22/2008	12/23/08	BGL				

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR BENZOIC ACID AND PENTACHLORONITROBENZENE ARE ESTIMATED SINCE RESPONSE FACTOR FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-64

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50256

‡Sampled : 12/15/2008
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	12/23/08	BGL	0.310			
Acenaphthylene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Benzo(a)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Benzo(a)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Benzo(b)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Benzo(k)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Chrysene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Fluorene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
2-Methylnaphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Naphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Phenanthrene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.310			
Extraction Date 8270		12/22/2008	12/23/08	BGL				

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR BENZOIC ACID AND PENTACHLORONITROBENZENE ARE ESTIMATED SINCE RESPONSE FACTOR FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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LOWELL, MA 01852

12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
Field Sample # : SS-65

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Sample ID : 08B50257

‡Sampled : 12/15/2008
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	12/23/08	BGL	0.250			
Acenaphthylene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Benzo(a)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Benzo(a)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Benzo(b)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Benzo(g,h,i)perylene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Benzo(k)fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Chrysene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Dibenz(a,h)anthracene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Fluoranthene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Fluorene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Indeno(1,2,3-cd)pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
2-Methylnaphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Naphthalene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Phenanthrene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Pyrene	mg/kg dry wt	ND	12/23/08	BGL	0.250			
Extraction Date 8270		12/22/2008	12/23/08	BGL				

Analytical Method:
SW846 8270
SAMPLES ARE EXTRACTED IN METHYLENE CHLORIDE/ACETONE AND FOLLOWED BY GC/MS TARGET COMPOUND ANALYSIS. REPORTED RESULTS AND REPORTING LIMITS FOR BENZOIC ACID AND PENTACHLORONITROBENZENE ARE ESTIMATED SINCE RESPONSE FACTOR FOR THESE COMPOUNDS ARE BELOW METHOD SPECIFICATIONS.

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12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008
LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

Field Sample # : SS-63

Sample ID : 08B50255

‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	82.8	12/22/08	TGT				

Field Sample # : SS-64

Sample ID : 08B50256

‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	53.9	12/22/08	TGT				

Field Sample # : SS-65

Sample ID : 08B50257

‡Sampled : 12/15/2008
Not Specified

Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/ F
Solids, total	%	66.8	12/22/08	TGT				

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

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12/23/2008

Purchase Order No.:

Project Location: NEW BEDFORD, MA.
Date Received: 12/17/2008

LIMS-BAT #: LIMT-22160
Job Number: 115058.0000

** END OF REPORT **

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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

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

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: 12/23/2008 Lims Bat # : LIMT-22160

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
08B50255					
	Nitrobenzene-d5	Surrogate Recovery	69.4	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	68.7	%	30-130
	Terphenyl-d14	Surrogate Recovery	105.9	%	30-130
08B50256					
	Nitrobenzene-d5	Surrogate Recovery	67.4	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	66.1	%	30-130
	Terphenyl-d14	Surrogate Recovery	104.4	%	30-130
08B50257					
	Nitrobenzene-d5	Surrogate Recovery	83.9	%	30-130
	2-Fluorobiphenyl	Surrogate Recovery	84.5	%	30-130
	Terphenyl-d14	Surrogate Recovery	121.7	%	30-130
BLANK-127947					
	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	
	Benzoic Acid	Blank	<1.00	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	
	4-Chlorophenylphenyl ether	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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BLANK-127947					
	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	
	Hexachlorocyclopentadiene	Blank	<0.67	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	
	2-Nitroaniline	Blank	<0.34	mg/kg dry wt	
	3-Nitroaniline	Blank	<0.34	mg/kg dry wt	
	Nitrobenzene	Blank	<0.34	mg/kg dry wt	
	N-Nitroso-di-n-propylamine	Blank	<0.34	mg/kg dry wt	
	N-Nitrosodiphenylamine	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	
	4-Chloro-3-methylphenol	Blank	<0.67	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	
	4,6-Dinitro-2-methylphenol	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	
	Pyridine	Blank	<0.17	mg/kg dry wt	
	Benzo(k)fluoranthene	Blank	<0.167	mg/kg dry wt	
	Acetophenone	Blank	<0.34	mg/kg dry wt	
	Carbazole	Blank	<0.17	mg/kg dry wt	
	Pentachloronitrobenzene	Blank	<0.34	mg/kg dry wt	
	1,2,4,5-Tetrachlorobenzene	Blank	<0.34	mg/kg dry wt	
LFBLANK-89948					
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.99	%	40-140

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LFBLANK-89948					
	1,4-Dichlorobenzene	Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.20	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.13	%	
		Lab Fort Blank Range	0.13	units	
		Lab Fort Bl. Av. Rec	72.06	%	
		LFB Duplicate RPD	0.19	%	0-30
	Naphthalene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.079	mg/kg dry wt	
		Lab Fort Blk. % Rec.	64.780	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.095	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.719	%	
		Lab Fort Blank Range	0.939	units	
		Lab Fort Bl. Av. Rec	65.249	%	
		LFB Duplicate RPD	1.440	%	0-30
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.18	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.05	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.53	%	
		Lab Fort Blank Range	0.48	units	
		Lab Fort Bl. Av. Rec	71.29	%	
		LFB Duplicate RPD	0.67	%	0-30
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.19	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.98	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.56	%	
		Lab Fort Blank Range	0.41	units	
		Lab Fort Bl. Av. Rec	71.77	%	
		LFB Duplicate RPD	0.58	%	0-30
	Acenaphthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.099	mg/kg dry wt	
		Lab Fort Blk. % Rec.	65.939	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.095	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.740	%	
		Lab Fort Blank Range	0.199	units	
		Lab Fort Bl. Av. Rec	65.840	%	
		LFB Duplicate RPD	0.303	%	0-30
	Acenaphthylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	

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LFBLANK-89948					
	Acenaphthylene	Lab Fort Blk. Found	1.102	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.139	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.100	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	66.019	%	
		Lab Fort Blank Range	0.119	units	
		Lab Fort Bl. Av. Rec	66.079	%	
		LFB Duplicate RPD	0.181	%	0-30
	Aniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.67	%	10-140
		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	79.90	%	
		Lab Fort Blank Range	4.22	units	
		Lab Fort Bl. Av. Rec	77.78	%	
		LFB Duplicate RPD	5.42	%	0-50
	Anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.160	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.599	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.133	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	67.999	%	
		Lab Fort Blank Range	1.600	units	
		Lab Fort Bl. Av. Rec	68.799	%	
		LFB Duplicate RPD	2.325	%	0-30
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.101	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.100	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.092	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.519	%	
		Lab Fort Blank Range	0.580	units	
		Lab Fort Bl. Av. Rec	65.810	%	
		LFB Duplicate RPD	0.881	%	0-30
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.119	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.139	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.095	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.740	%	
		Lab Fort Blank Range	1.399	units	
		Lab Fort Bl. Av. Rec	66.440	%	

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LFBLANK-89948					
	Benzo(a)pyrene	LFB Duplicate RPD	2.107	%	0-30
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.005	mg/kg dry wt	
		Lab Fort Blk. % Rec.	60.340	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.019	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	61.159	%	
		Lab Fort Blank Range	0.819	units	
		Lab Fort Bl. Av. Rec	60.749	%	
		LFB Duplicate RPD	1.349	%	0-30
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.483	mg/kg dry wt	
		Lab Fort Blk. % Rec.	88.979	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.322	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	79.319	%	
		Lab Fort Blank Range	9.660	units	
		Lab Fort Bl. Av. Rec	84.149	%	
		LFB Duplicate RPD	11.479	%	0-30
	Benzoic Acid	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.51	mg/kg dry wt	
		Lab Fort Blk. % Rec.	30.89	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.68	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	41.23	%	
		Lab Fort Blank Range	10.34	units	
		Lab Fort Bl. Av. Rec	36.06	%	
		LFB Duplicate RPD	28.66	%	0-50
	Bis(2-chloroethyl)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.	75.43	%	40-140
		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	76.99	%	
		Lab Fort Blank Range	1.55	units	
		Lab Fort Bl. Av. Rec	76.21	%	
		LFB Duplicate RPD	2.04	%	0-30
	Bis(2-chloroethoxy)methane	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.76	%	40-140
		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	76.84	%	

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LFBLANK-89948					
	Bis(2-chloroethoxy)methane	Lab Fort Blank Range	1.08	units	
		Lab Fort Bl. Av. Rec	76.30	%	
		LFB Duplicate RPD	1.41	%	0-30
	Bis(2-chloroisopropyl)ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.93	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.45	%	
		Lab Fort Blank Range	2.52	units	
		Lab Fort Bl. Av. Rec	70.19	%	
		LFB Duplicate RPD	3.58	%	0-30
	Bis(2-ethylhexyl)phthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.65	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.49	%	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	91.12	%	
		Lab Fort Blank Range	8.37	units	
		Lab Fort Bl. Av. Rec	95.30	%	
		LFB Duplicate RPD	8.79	%	0-30
	4-Bromophenyl phenyl ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.18	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.17	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.21	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.95	%	
		Lab Fort Blank Range	1.78	units	
		Lab Fort Bl. Av. Rec	72.06	%	
		LFB Duplicate RPD	2.46	%	0-30
	Butylbenzylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.67	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.76	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.52	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.27	%	
		Lab Fort Blank Range	9.47	units	
		Lab Fort Bl. Av. Rec	96.01	%	
		LFB Duplicate RPD	9.87	%	0-30
	4-Chloroaniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.05	mg/kg dry wt	
		Lab Fort Blk. % Rec.	63.52	%	10-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	

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LFBLANK-89948					
	4-Chloroaniline	Dup Lab Fort Bl. Fnd	1.14	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	68.53	%	
		Lab Fort Blank Range	5.01	units	
		Lab Fort Bl. Av. Rec	66.02	%	
		LFB Duplicate RPD	7.60	%	0-30
	2-Chloronaphthalene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.05	mg/kg dry wt	
		Lab Fort Blk. % Rec.	63.19	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.01	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	61.15	%	
		Lab Fort Blank Range	2.04	units	
		Lab Fort Bl. Av. Rec	62.17	%	
		LFB Duplicate RPD	3.28	%	0-30
	4-Chlorophenylphenyl ether	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.31	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.83	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.30	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.53	%	
		Lab Fort Blank Range	0.30	units	
		Lab Fort Bl. Av. Rec	78.68	%	
		LFB Duplicate RPD	0.38	%	0-30
	Chrysene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.108	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.499	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.095	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.719	%	
		Lab Fort Blank Range	0.780	units	
		Lab Fort Bl. Av. Rec	66.109	%	
		LFB Duplicate RPD	1.179	%	0-30
	Dibenz(a,h)anthracene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.416	mg/kg dry wt	
		Lab Fort Blk. % Rec.	84.959	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.293	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	77.599	%	
		Lab Fort Blank Range	7.360	units	
		Lab Fort Bl. Av. Rec	81.279	%	
		LFB Duplicate RPD	9.055	%	0-30
	Dibenzofuran	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	

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LFBLANK-89948					
	Dibenzofuran	Lab Fort Blk. % Rec.	76.55	%	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	76.27	%	
		Lab Fort Blank Range	0.28	units	
		Lab Fort Bl. Av. Rec	76.41	%	
		LFB Duplicate RPD	0.36	%	0-30
	3,3'-Dichlorobenzidine	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.48	mg/kg dry wt	
		Lab Fort Blk. % Rec.	89.26	%	20-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.45	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	87.28	%	
		Lab Fort Blank Range	1.97	units	
		Lab Fort Bl. Av. Rec	88.27	%	
		LFB Duplicate RPD	2.24	%	0-50
	Diethylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.49	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.39	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.51	%	
		Lab Fort Blank Range	1.02	units	
		Lab Fort Bl. Av. Rec	83.00	%	
		LFB Duplicate RPD	1.22	%	0-30
	Dimethylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.30	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.01	%	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	78.71	%	
		Lab Fort Blank Range	0.70	units	
		Lab Fort Bl. Av. Rec	78.36	%	
		LFB Duplicate RPD	0.89	%	0-30
	Di-n-butylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.44	mg/kg dry wt	
		Lab Fort Blk. % Rec.	86.53	%	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	82.61	%	
		Lab Fort Blank Range	3.91	units	
		Lab Fort Bl. Av. Rec	84.57	%	
		LFB Duplicate RPD	4.63	%	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

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	2,4-Dinitrotoluene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.75	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.39	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.45	%	
		Lab Fort Blank Range	0.70	units	
		Lab Fort Bl. Av. Rec	83.10	%	
		LFB Duplicate RPD	0.84	%	0-30
	2,6-Dinitrotoluene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.37	mg/kg dry wt	
		Lab Fort Blk. % Rec.	82.75	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.39	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	83.45	%	
		Lab Fort Blank Range	0.70	units	
		Lab Fort Bl. Av. Rec	83.10	%	
		LFB Duplicate RPD	0.84	%	0-30
	1,2-Diphenylhydrazine (as Azobenzene)	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.77	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.45	%	
		Lab Fort Blank Range	2.68	units	
		Lab Fort Bl. Av. Rec	70.11	%	
		LFB Duplicate RPD	3.82	%	0-30
	Di-n-octylphthalate	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.55	mg/kg dry wt	
		Lab Fort Blk. % Rec.	93.19	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.47	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	88.75	%	
		Lab Fort Blank Range	4.43	units	
		Lab Fort Bl. Av. Rec	90.97	%	
		LFB Duplicate RPD	4.88	%	0-30
	Fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.250	mg/kg dry wt	
		Lab Fort Blk. % Rec.	75.019	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.097	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	65.860	%	
		Lab Fort Blank Range	9.159	units	

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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

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	Fluoranthene	Lab Fort Bl. Av. Rec	70.439	%	
		LFB Duplicate RPD	13.003	%	0-30
	Fluorene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.183	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.979	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.185	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.119	%	
		Lab Fort Blank Range	0.139	units	
		Lab Fort Bl. Av. Rec	71.049	%	
		LFB Duplicate RPD	0.197	%	0-30
	Hexachlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.83	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.20	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.25	%	
		Lab Fort Blank Range	3.41	units	
		Lab Fort Bl. Av. Rec	70.54	%	
		LFB Duplicate RPD	4.84	%	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.	74.74	%	40-140
		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	74.09	%	
		Lab Fort Blank Range	0.64	units	
		Lab Fort Bl. Av. Rec	74.41	%	
		LFB Duplicate RPD	0.85	%	0-30
	Hexachlorocyclopentadiene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.14	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.51	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.06	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	63.82	%	
		Lab Fort Blank Range	4.69	units	
		Lab Fort Bl. Av. Rec	66.17	%	
		LFB Duplicate RPD	7.10	%	0-30
	Hexachloroethane	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.19	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.22	mg/kg dry wt	

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LFBLANK-89948					
	Hexachloroethane	Dup Lab Fort Bl %Rec	73.75	%	
		Lab Fort Blank Range	1.55	units	
		Lab Fort Bl. Av. Rec	72.97	%	
		LFB Duplicate RPD	2.13	%	0-30
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.587	mg/kg dry wt	
		Lab Fort Blk. % Rec.	95.239	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.427	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.660	%	
		Lab Fort Blank Range	9.579	units	
		Lab Fort Bl. Av. Rec	90.449	%	
		LFB Duplicate RPD	10.591	%	0-30
	Isophorone	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.22	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.31	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.30	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.13	%	
		Lab Fort Blank Range	4.81	units	
		Lab Fort Bl. Av. Rec	75.72	%	
		LFB Duplicate RPD	6.36	%	0-30
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.149	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.959	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.208	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.479	%	
		Lab Fort Blank Range	3.520	units	
		Lab Fort Bl. Av. Rec	70.719	%	
		LFB Duplicate RPD	4.977	%	0-30
	2-Nitroaniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.29	mg/kg dry wt	
		Lab Fort Blk. % Rec.	77.53	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.29	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	77.56	%	
		Lab Fort Blank Range	0.02	units	
		Lab Fort Bl. Av. Rec	77.54	%	
		LFB Duplicate RPD	0.02	%	0-30
	3-Nitroaniline	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.30	mg/kg dry wt	
		Lab Fort Blk. % Rec.	78.22	%	30-140

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BATCH QC: Lab fortified Blanks and Duplicates
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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	3-Nitroaniline	Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.30	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	78.05	%	
		Lab Fort Blank Range	0.16	units	
		Lab Fort Bl. Av. Rec	78.13	%	
		LFB Duplicate RPD	0.20	%	0-30
	Nitrobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.19	mg/kg dry wt	
		Lab Fort Blk. % Rec.	71.65	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.20	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.99	%	
		Lab Fort Blank Range	0.34	units	
		Lab Fort Bl. Av. Rec	71.82	%	
		LFB Duplicate RPD	0.47	%	0-30
	N-Nitroso-di-n-propylamine	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.13	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.27	%	80-180
		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	75.17	%	
		Lab Fort Blank Range	6.89	units	
		Lab Fort Bl. Av. Rec	71.72	%	
		LFB Duplicate RPD	9.61	%	0-30
	N-Nitrosodiphenylamine	Lab Fort Blank Amt.	3.33	mg/kg dry wt	
		Lab Fort Blk. Found	2.26	mg/kg dry wt	
		Lab Fort Blk. % Rec.	67.89	%	40-140
		Dup Lab Fort Bl Amt.	3.33	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	2.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	70.31	%	
		Lab Fort Blank Range	2.42	units	
		Lab Fort Bl. Av. Rec	69.10	%	
		LFB Duplicate RPD	3.50	%	0-30
	Phenanthrene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.140	mg/kg dry wt	
		Lab Fort Blk. % Rec.	68.440	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.113	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	66.820	%	
		Lab Fort Blank Range	1.620	units	
		Lab Fort Bl. Av. Rec	67.630	%	
		LFB Duplicate RPD	2.395	%	0-30
	Pyrene	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
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Method Blanks

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	Pyrene	Lab Fort Blk. Found	1.344	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.680	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.252	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	75.160	%	
		Lab Fort Blank Range	5.520	units	
		Lab Fort Bl. Av. Rec	77.920	%	
		LFB Duplicate RPD	7.084	%	0-30
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.12	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.22	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	73.51	%	
		Lab Fort Blank Range	0.39	units	
		Lab Fort Bl. Av. Rec	73.31	%	
		LFB Duplicate RPD	0.54	%	0-30
	4-Chloro-3-methylphenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.27	mg/kg dry wt	
		Lab Fort Blk. % Rec.	76.45	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.42	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	85.30	%	
		Lab Fort Blank Range	8.84	units	
		Lab Fort Bl. Av. Rec	80.87	%	
		LFB Duplicate RPD	10.92	%	0-30
	2-Chlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.17	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.60	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.21	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.76	%	
		Lab Fort Blank Range	2.15	units	
		Lab Fort Bl. Av. Rec	71.68	%	
		LFB Duplicate RPD	3.01	%	0-30
	2,4-Dichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.76	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.26	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	76.12	%	
		Lab Fort Blank Range	3.36	units	
		Lab Fort Bl. Av. Rec	74.44	%	

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BATCH QC: Lab fortified Blanks and Duplicates
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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	2,4-Dichlorophenol	LFB Duplicate RPD	4.51	%	0-30
	2,4-Dimethylphenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.10	%	30-130
		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	77.38	%	
		Lab Fort Blank Range	5.28	units	
		Lab Fort Bl. Av. Rec	74.74	%	
		LFB Duplicate RPD	7.06	%	0-30
	4,6-Dinitro-2-methylphenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.02	mg/kg dry wt	
		Lab Fort Blk. % Rec.	61.48	%	30-130
		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	62.59	%	
		Lab Fort Blank Range	1.11	units	
		Lab Fort Bl. Av. Rec	62.03	%	
		LFB Duplicate RPD	1.80	%	0-30
	2,4-Dinitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.04	mg/kg dry wt	
		Lab Fort Blk. % Rec.	62.41	%	10-130
		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	65.23	%	
		Lab Fort Blank Range	2.81	units	
		Lab Fort Bl. Av. Rec	63.82	%	
		LFB Duplicate RPD	4.41	%	0-30
	o-cresol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.10	mg/kg dry wt	
		Lab Fort Blk. % Rec.	66.31	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.18	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.27	%	
		Lab Fort Blank Range	4.96	units	
		Lab Fort Bl. Av. Rec	68.79	%	
		LFB Duplicate RPD	7.20	%	0-30
	m & p-cresol(s)	Lab Fort Blank Amt.	2.50	mg/kg dry wt	
		Lab Fort Blk. Found	1.35	mg/kg dry wt	
		Lab Fort Blk. % Rec.	54.20	%	30-130
		Dup Lab Fort Bl Amt.	2.50	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.49	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	59.84	%	

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Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	m & p-cresol(s)	Lab Fort Blank Range	5.64	units	
		Lab Fort Bl. Av. Rec	57.02	%	
		LFB Duplicate RPD	9.89	%	0-30
	2-Nitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.20	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.46	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.20	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.11	%	
		Lab Fort Blank Range	0.34	units	
		Lab Fort Bl. Av. Rec	72.29	%	
		LFB Duplicate RPD	0.47	%	0-30
	4-Nitrophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.02	mg/kg dry wt	
		Lab Fort Blk. % Rec.	61.55	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.90	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	54.33	%	
		Lab Fort Blank Range	7.22	units	
		Lab Fort Bl. Av. Rec	57.94	%	
		LFB Duplicate RPD	12.45	%	0-50
	Phenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.16	mg/kg dry wt	
		Lab Fort Blk. % Rec.	69.61	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.22	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	73.78	%	
		Lab Fort Blank Range	4.16	units	
		Lab Fort Bl. Av. Rec	71.69	%	
		LFB Duplicate RPD	5.80	%	0-30
	2,4,5-Trichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.23	mg/kg dry wt	
		Lab Fort Blk. % Rec.	74.38	%	30-130
		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	75.17	%	
		Lab Fort Blank Range	0.79	units	
		Lab Fort Bl. Av. Rec	74.78	%	
		LFB Duplicate RPD	1.06	%	0-30
	2,4,6-Trichlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	72.70	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	

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Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	2,4,6-Trichlorophenol	Dup Lab Fort Bl. Fnd	1.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	71.77	%	
		Lab Fort Blank Range	0.92	units	
		Lab Fort Bl. Av. Rec	72.23	%	
		LFB Duplicate RPD	1.27	%	0-30
	Pentachlorophenol	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	0.99	mg/kg dry wt	
		Lab Fort Blk. % Rec.	59.41	%	30-130
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.95	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	57.03	%	
		Lab Fort Blank Range	2.38	units	
		Lab Fort Bl. Av. Rec	58.22	%	
		LFB Duplicate RPD	4.08	%	0-30
	Pyridine	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	73.09	%	30-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.22	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	73.48	%	
		Lab Fort Blank Range	0.38	units	
		Lab Fort Bl. Av. Rec	73.28	%	
		LFB Duplicate RPD	0.51	%	0-50
	Benzo(k)fluoranthene	Lab Fort Blank Amt.	1.666	mg/kg dry wt	
		Lab Fort Blk. Found	1.043	mg/kg dry wt	
		Lab Fort Blk. % Rec.	62.599	%	40-140
		Dup Lab Fort Bl Amt.	1.666	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.045	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	62.740	%	
		Lab Fort Blank Range	0.140	units	
		Lab Fort Bl. Av. Rec	62.669	%	
		LFB Duplicate RPD	0.223	%	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	0.62	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	74.95	%	
		Lab Fort Blank Range	5.36	units	
		Lab Fort Bl. Av. Rec	72.28	%	
		LFB Duplicate RPD	7.41	%	0-30
	Carbazole	Lab Fort Blank Amt.	1.66	mg/kg dry wt	
		Lab Fort Blk. Found	1.31	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

QC Batch Number: GCMS/SEMI-11797

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89948					
	Carbazole	Lab Fort Blk. % Rec.	79.07	%	40-140
		Dup Lab Fort Bl Amt.	1.66	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.21	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	72.71	%	
		Lab Fort Blank Range	6.35	units	
		Lab Fort Bl. Av. Rec	75.89	%	
		LFB Duplicate RPD	8.37	%	0-30
	Pentachloronitrobenzene	Lab Fort Blank Amt.	0.83	mg/kg dry wt	
		Lab Fort Blk. Found	0.67	mg/kg dry wt	
		Lab Fort Blk. % Rec.	80.75	%	40-140
		Dup Lab Fort Bl Amt.	0.83	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.68	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.64	%	
		Lab Fort Blank Range	1.88	units	
		Lab Fort Bl. Av. Rec	81.69	%	
		LFB Duplicate RPD	2.30	%	
	1,2,4,5-Tetrachlorobenzene	Lab Fort Blank Amt.	0.83	mg/kg dry wt	
		Lab Fort Blk. Found	0.58	mg/kg dry wt	
		Lab Fort Blk. % Rec.	70.72	%	40-140
		Dup Lab Fort Bl Amt.	0.83	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	0.55	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	66.39	%	
		Lab Fort Blank Range	4.32	units	
		Lab Fort Bl. Av. Rec	68.56	%	
		LFB Duplicate RPD	6.30	%	

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QC SUMMARY REPORT

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

QC Batch Number: HG-9738

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-127922					
	Mercury	Blank	<0.025	mg/kg dry wt	
LFBLANK-89924					
	Mercury	Lab Fort Blank Amt.	1.250	mg/kg dry wt	
		Lab Fort Blk. Found	1.363	mg/kg dry wt	
		Lab Fort Blk. % Rec.	109.061	%	65.9-133
		Dup Lab Fort Bl Amt.	1.250	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	1.244	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	99.585	%	65.9-133
		Lab Fort Blank Range	9.475	units	
		Lab Fort Bl. Av. Rec	104.323	%	
		LFB Duplicate RPD	9.083	%	

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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

QC Batch Number: ICP-20875

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-127981					
	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	<1.00	mg/kg dry wt	
LFBLANK-89982					
	Silver	Lab Fort Blank Amt.	81.20	mg/kg dry wt	
		Lab Fort Blk. Found	73.47	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.48	%	66-133
		Dup Lab Fort Bl Amt.	81.20	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	68.27	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	84.07	%	66-133
		Lab Fort Blank Range	6.40	units	
		Lab Fort Bl. Av. Rec	87.27	%	
		LFB Duplicate RPD	7.33	%	0-30
	Arsenic	Lab Fort Blank Amt.	133.00	mg/kg dry wt	
		Lab Fort Blk. Found	131.72	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.04	%	80-120
		Dup Lab Fort Bl Amt.	133.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	120.50	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	90.60	%	80-120
		Lab Fort Blank Range	8.44	units	
		Lab Fort Bl. Av. Rec	94.82	%	
		LFB Duplicate RPD	8.90	%	0-30
	Barium	Lab Fort Blank Amt.	226.00	mg/kg dry wt	
		Lab Fort Blk. Found	220.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.43	%	81-119
		Dup Lab Fort Bl Amt.	226.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	196.37	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.88	%	81-119
		Lab Fort Blank Range	10.54	units	
		Lab Fort Bl. Av. Rec	92.16	%	
		LFB Duplicate RPD	11.44	%	0-30
	Beryllium	Lab Fort Blank Amt.	117.00	mg/kg dry wt	
		Lab Fort Blk. Found	116.24	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
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Method Blanks

QC Batch Number: ICP-20875

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89982					
	Beryllium	Lab Fort Blk. % Rec.	99.35	%	84-116
		Dup Lab Fort Bl Amt.	117.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	106.75	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	91.23	%	84-116
		Lab Fort Blank Range	8.11	units	
		Lab Fort Bl. Av. Rec	95.29	%	
		LFB Duplicate RPD	8.51	%	0-30
	Cadmium	Lab Fort Blank Amt.	103.00	mg/kg dry wt	
		Lab Fort Blk. Found	95.17	mg/kg dry wt	
		Lab Fort Blk. % Rec.	92.39	%	83-117
		Dup Lab Fort Bl Amt.	103.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	88.61	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	86.02	%	83-117
		Lab Fort Blank Range	6.36	units	
		Lab Fort Bl. Av. Rec	89.21	%	
		LFB Duplicate RPD	7.13	%	0-30
	Chromium	Lab Fort Blank Amt.	219.00	mg/kg dry wt	
		Lab Fort Blk. Found	214.48	mg/kg dry wt	
		Lab Fort Blk. % Rec.	97.93	%	82-118
		Dup Lab Fort Bl Amt.	219.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	197.90	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	90.36	%	82-118
		Lab Fort Blank Range	7.57	units	
		Lab Fort Bl. Av. Rec	94.15	%	
		LFB Duplicate RPD	8.04	%	0-30
	Nickel	Lab Fort Blank Amt.	119.00	mg/kg dry wt	
		Lab Fort Blk. Found	117.85	mg/kg dry wt	
		Lab Fort Blk. % Rec.	99.03	%	80-120
		Dup Lab Fort Bl Amt.	119.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	110.02	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.45	%	80-120
		Lab Fort Blank Range	6.57	units	
		Lab Fort Bl. Av. Rec	95.74	%	
		LFB Duplicate RPD	6.87	%	0-30
	Lead	Lab Fort Blank Amt.	168.00	mg/kg dry wt	
		Lab Fort Blk. Found	151.84	mg/kg dry wt	
		Lab Fort Blk. % Rec.	90.38	%	82-118
		Dup Lab Fort Bl Amt.	168.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	138.34	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	82.34	%	82-118
		Lab Fort Blank Range	8.03	units	
		Lab Fort Bl. Av. Rec	86.36	%	
		LFB Duplicate RPD	9.30	%	0-30

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Sample Matrix Spikes and Matrix Spike Duplicates

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QC Batch Number: ICP-20875

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89982					
	Antimony	Lab Fort Blank Amt.	79.20	mg/kg dry wt	
		Lab Fort Blk. Found	97.99	mg/kg dry wt	
		Lab Fort Blk. % Rec.	123.72	%	30-207
		Dup Lab Fort Bl Amt.	79.20	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	90.62	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	114.41	%	30-207
		Lab Fort Blank Range	9.30	units	
		Lab Fort Bl. Av. Rec	119.07	%	
		LFB Duplicate RPD	7.81	%	0-30
	Selenium	Lab Fort Blank Amt.	94.10	mg/kg dry wt	
		Lab Fort Blk. Found	95.47	mg/kg dry wt	
		Lab Fort Blk. % Rec.	101.45	%	77-123
		Dup Lab Fort Bl Amt.	94.10	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	88.03	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	93.54	%	77-123
		Lab Fort Blank Range	7.90	units	
		Lab Fort Bl. Av. Rec	97.50	%	
		LFB Duplicate RPD	8.10	%	0-30
	Thallium	Lab Fort Blank Amt.	152.00	mg/kg dry wt	
		Lab Fort Blk. Found	153.60	mg/kg dry wt	
		Lab Fort Blk. % Rec.	101.05	%	82-120
		Dup Lab Fort Bl Amt.	152.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	140.19	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	92.23	%	82-120
		Lab Fort Blank Range	8.81	units	
		Lab Fort Bl. Av. Rec	96.64	%	
		LFB Duplicate RPD	9.12	%	0-30
	Vanadium	Lab Fort Blank Amt.	123.00	mg/kg dry wt	
		Lab Fort Blk. Found	124.21	mg/kg dry wt	
		Lab Fort Blk. % Rec.	100.98	%	80-120
		Dup Lab Fort Bl Amt.	123.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	114.58	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	93.15	%	80-120
		Lab Fort Blank Range	7.82	units	
		Lab Fort Bl. Av. Rec	97.06	%	
		LFB Duplicate RPD	8.06	%	0-30
	Zinc	Lab Fort Blank Amt.	280.00	mg/kg dry wt	
		Lab Fort Blk. Found	260.39	mg/kg dry wt	
		Lab Fort Blk. % Rec.	93.00	%	81-119
		Dup Lab Fort Bl Amt.	280.00	mg/kg dry wt	
		Dup Lab Fort Bl. Fnd	247.52	mg/kg dry wt	
		Dup Lab Fort Bl %Rec	88.40	%	81-119
		Lab Fort Blank Range	4.60	units	

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QC SUMMARY REPORT

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Sample Matrix Spikes and Matrix Spike Duplicates

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Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: ICP-20875

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-89982					
	Zinc	Lab Fort Bl. Av. Rec	90.70	%	
		LFB Duplicate RPD	5.07	%	0-30

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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 #: LIMT-22160
Project Location: NEW BEDFORD, MA	MADEP RTN[1]:

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

08B50255 - 08B50257

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 ( )	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:** 12/24/08

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CHAIN OF CUSTODY RECORD

LIMT-22160

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

Company Name: TRC
Address: 650 Suffolk St
Lowell, MA
Attention: Dave Sullivan
Project Location: New Bedford, MA
Sampled By: R. Niles

Telephone: (978) 656-3565
Project # 115058.0000
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 _____ proposal date

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab # 08B	Date Sampled: Start Date/Time	Date Sampled: ~~Stop~~ End Date/Time	Composite	Grab	*Matrix Code	Conc. Code	PAHs (8270c)	MCP Metals + Hg									# of containers
									1	1									**Preservation
									G	G									~Cont.Code
	SS-63	50255	12/14/08	1925		X	S	L	X	X									
	SS-64	50256	↓	1930		X	S	L	X	X									
	SS-65	50257	↓	1935		X	S	L	X	X									

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:

LD 6

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: 12/16/08 1500	
Received by: (signature) 28°C	Date/Time: 12/17/08 0954	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

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
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

*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.

AIHA, NELAC & WBE/DBE Certified

Track Shipments/FedEx Kinko's Orders

Detailed Results

Printable Version | Quick Help

Tracking number	868352316516	**Delivered to**	Shipping/Receiving
Signed for by	K.MURPHY	**Service type**	Priority Overnight
Ship date	Dec 16, 2008	**Weight**	6.0 lbs.
Delivery date	Dec 17, 2008 9:54 AM		
Status	Delivered		
Signature image available	Yes		

Date/Time		Activity	Location	Details
Dec 17, 2008	9:54 AM	**Delivered**		
	8:43 AM	On FedEx vehicle for delivery	WINDSOR LOCKS, CT	
	6:48 AM	At local FedEx facility	WINDSOR LOCKS, CT	
	4:01 AM	At dest sort facility	EAST GRANBY, CT	
Dec 16, 2008	8:28 PM	Left FedEx origin facility	RAYNHAM, MA	
	3:05 PM	Picked up	RAYNHAM, MA	

Signature proof | E-mail results | Track more shipments/orders

Subscribe to tracking updates (optional)

Your name: Your e-mail address:

E-mail address	Language	Exception updates	Delivery updates
	English	☐	☐
	English	☐	☐
	English	☐	☐
	English	☐	☐

Select format: ◉ HTML ○ Text ○ Wireless

Add personal message:

Not available for Wireless or non-English characters.

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con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

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

CLIENT NAME: MC RECEIVED BY: KM DATE: 12/17/08

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 _____ Temperature °C by Temp gun 2.8

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 [illegible]C

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	
500 mL Amber		4 oz clear jar	10
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