[redacted]

Project Quality Assurance/Quality Control Narrative

PROJECT: **King County Storm Water Intercalibration Exercise**

PARAMETER: Metals (Cu, Pb, Zn, Hg, and Hardness)

MATRIX: Storm Water

SAMPLE CUSTODY: On 3/27/2009, 12 water samples were received at [redacted] Laboratory in good condition; the cooler temperature upon arrival was 12.4°C which was outside the recommended acceptability range of 4±2°C for environmental sample shipping, but acceptable for samples preserved with acid. A random pH check was conducted on 3 samples (3, 7, and 10) and the samples were verified to have been acidified. Samples were assigned a [redacted] Central File (CF) identification number (3010) and were entered into our laboratory information management system. Sample containers were placed in locked storage and held at ambient temperature until processing.

Data Quality Objectives

Parameter	Analytical Method	Instrument	Range of Recovery	SRM Accuracy	Relative Precision	Achieved Detection Limits (ug/L)	Report Limits [1] (ug/L)
Cu	SOP MSL-I-022	ICP-MS	75-125%	±25%	≤25% [2]	0.0053	0.0169
Pb	SOP MSL-I-022	ICP-MS	75-125%	±25%	≤25%[2]	0.0022	0.00696
Zn	SOP MSL-I-022	ICP-MS	75-125%	±25%	≤25%[2]	0.0135	0.0429
Hg	SOP MSL-I-013	CVAFS	77-123%	±23%	≤25%[2]	0.000100	0.00030
Ca	SOP MSL-I-033	ICP-OES	75-125%	±20%	≤20% [3]	3.38	10.7
Mg	SOP MSL-I-033	ICP-OES	75-125%	±20%	≤20%[3]	2.92	9.29
Hardness[4]	SM 2340B					0.0205[4]	0.0651[4]

1 Calculated as 3.18 x achieved detection limit
2 Evaluated for concentrations greater than 10x MDL
3 Evaluated for concentrations greater than 5x MDL
4 Calculated from measurements of Ca and Mg; units = mg equivalents of $CaCO_3$/L

METHOD

Five measurements are reported: copper (Cu), lead (Pb), zinc (Zn), mercury (Hg) and Hardness . Copper, Pb, and Zn were analyzed by inductively coupled plasma mass spectrometry (ICP-MS) following our Standard Operating Procedure MSL-I-022, which is based on EPA Methods 200.8 and SW 846-6020, modified for trace metals analysis. Mercury was analyzed by our Standard Operating Procedure MSL-I-013, which is based on EPA Method 1631e. Hardness was determined by calculation following SM 2340B, which uses measurements of Calcium (Ca) and Magnesium (Mg) to determine hardness. The calculation for hardness is given by:

[redacted]

Hardness (mg equivalents of $CaCO_3$/L) = 2.497 [Ca, mg/L] + 4.118 [Mg, mg/L]

Measurements of Ca and Mg were made by inductively coupled plasma optical emission spectrometry (ICP-OES) following MSL SOP MSL-I-033, which is based on two methods modified and adapted for analysis of low level samples: EPA Method 6010B and 200.7.

Samples for trace metal measurements were digested in 2% HNO_3 acid at 85°C for 2 hours. This procedure is generally termed a total recoverable metal (TRM) analysis. Samples for total Hg were digested using bromine monochloride as outlined in EPA 1631d. Hardness was analyzed in the trace metal collections.

HOLDING TIMES: All analyses were conducted within the target holding time of one year for metals.

DETECTION LIMITS: Achieved detection limits were determined by a previously conducted MDL study where replicates were analyzed and the standard deviation was multiplied by the Student's-t value for the number of replicates. All sample concentrations were detected well above the achieved detection limits. The MDL for hardness was based on the sum of the individual MDL's for Ca and Mg and converted to hardness based units (mg equivalents of $CaCO_3$/L).

BLANKS All analytical blanks were within the method acceptance criteria (<5x MDL).

BLANK SPIKES (OPRs): Blank spikes were prepared and analyzed for all analytes. Recoveries were within the DQO target range specified in the DQO Table above.

MATRIX SPIKES: A matrix spike (MS) and a matrix spike duplicate (MSD) was prepared and analyzed for all analytes. Note that sample 3010-7 (sponsor code L47411-19) was used as the sample for spiking for trace metals and hardness. We did not recognize that specific samples were designated for this QA until after the analytical run was completed. For Hg, the QA designated sample 3010-16 (sponsor code L47716-10-12), which was part of the second shipment of samples (not included in this data report) was used for matrix spikes. All spike recoveries were within the DQO criteria specified in the table above.

Standard Reference Materials (SRM) The standard reference material (SRM) NIST 1640, Trace Elements in Natural Water, available from the National Institute of Standards and Technology (NIST) was used for both trace metals and hardness. For the trace metal's, the SRM was diluted by a factor of 10 for analysis. The SRM 1641d, Mercury in Water, available from NIST was used for the total Hg measurements. All recoveries were within the DQO criteria limits specified in the DQO Table above.

[redacted]

LABORATORY REPLICATES

Per the request of the King County project manager, all samples were analyzed in triplicate. In general, the relative standard deviation (RSD) for replicate analyses conducted by ICPMS fell within the range of 0.07 to 2.2% (expressed as a coefficient of variation, CV). For Hg, the RSD for replicate measurements conducted by cold vapor atomic fluorescence spectrometry (CFAVS) fell within the range of 0.42 to 6.6%, expressed as a CV. The range for hardness was 0.00 to 0.78%.

ANALYTICAL NOTES

1. EPA Method 1631e specifies that samples containers used for the sample collection must be either fluropolymer or glass construction. The samples were received in polyethylene containers which are not recommended for low level mercury work. The chance for a bias due to this situation.
2. Sample L47411-36 (Battelle Code 3010-12) received with this batch of samples and intended for Hg analysis is not included in this report, but will be reported with the next batch of samples received for analysis (which is already in house).

Approvals

Gary A. Gill	4/17/09		4/17/09
Project Manager	Date	QA Reviewer	Date

Data Report

Project: King County Intercalibration
Project Manager: [redacted]
Delivery Group ID: 32709
Matrix: Stormwater

[redacted]

[redacted]

SPONSOR CODE	Description	Battelle Code	Collection Date	Date Received	Analytical Batch ID Total Hg	Analytical Batch ID ICP-MS (Cd, Pb, Zn)	Analytical Batch ID ICP-OES (Ca, Mg)	Cu (µg/L)	Pb (µg/L)	Zn (µg/L)	Hg (ng/L)	Hardness (mg equivalents of $CaCO_3$/L)
							Method Detection Limits (2009)	**0.0053**	**0.0022**	**0.0135**	**0.100**	**0.0205**
							Reporting Limit (3.18*MDL)	**0.0169**	**0.00696**	**0.0429**	**0.318**	**0.0651**
L47411-1	Ewing Street	3010-1r1	03/25/09	03/27/09		040209-6100	I041009A1	8.86	4.62	37.2		13.7
L47411-1	Ewing Street	3010-1r2	03/25/09	03/27/09		040209-6100	I041009A1	8.88	4.66	37.0		13.7
L47411-1	Ewing Street	3010-1r3	03/25/09	03/27/09		040209-6100	I041009A1	8.91	4.62	37.5		13.7
							Mean	***8.88***	***4.64***	***37.3***		***13.7***
							STD	***0.03***	***0.02***	***0.3***		***0.00***
							RSD	***0.33%***	***0.51%***	***0.71%***		***0.00%***
L47411-6	Ewing Street	3010-2r1	03/25/09	03/27/09	040909HGA						10.2	
L47411-6	Ewing Street	3010-2r2	03/25/09	03/27/09	040909HGA						11.4	
L47411-6	Ewing Street	3010-2r3	03/25/09	03/27/09	040909HGA						11.5	
							Mean				***11.0***	
							STD				***0.7***	
							RSD				***6.6%***	
L47411-7	GL2-3	3010-3r1	03/25/09	03/27/09		040209-6100	I041009A1	33.3	26.9	146		59.6
L47411-7	GL2-3	3010-3r2	03/25/09	03/27/09		040209-6100	I041009A1	34.4	27.6	152		59.9
L47411-7	GL2-3	3010-3r3	03/25/09	03/27/09		040209-6100	I041009A1	34.8	27.7	152		59.6
							Mean	***34.2***	***27.4***	***150***		***59.7***
							STD	***0.7***	***0.4***	***3***		***0.17***
							RSD	***2.2%***	***1.6%***	***2.2%***		***0.29%***
L47411-12	GL2-3	3010-4r1	03/25/09	03/27/09	040909HGA						15.0	
L47411-12	GL2-3	3010-4r2	03/25/09	03/27/09	040909HGA						14.5	
L47411-12	GL2-3	3010-4r3	03/25/09	03/27/09	040909HGA						14.6	
							Mean				***14.7***	
							STD				***0.3***	
							RSD				***1.8%***	
L47411-13	c370	3010-5r1	03/25/09	03/27/09		040209-6100	I041009A1	2.64	2.07	7.24		140
L47411-13	c370	3010-5r2	03/25/09	03/27/09		040209-6100	I041009A1	2.61	2.01	7.23		141
L47411-13	c370	3010-5r3	03/25/09	03/27/09		040209-6100	I041009A1	2.55	2.04	7.06		140
							Mean	***2.60***	***2.04***	***7.18***		***140***

SPONSOR CODE	Description	Battelle Code	Collection Date	Date Received	Analytical Batch ID Total Hg	Analytical Batch ID ICP-MS (Cd, Pb, Zn)	Analytical Batch ID ICP-OES (Ca, Mg)	Cu (µg/L)	Pb (µg/L)	Zn (µg/L)	Hg (ng/L)	Hardness (mg equivalents of $CaCO_3$/L)
							Method Detection Limits (2009)	**0.0053**	**0.0022**	**0.0135**	**0.100**	**0.0205**
							Reporting Limit (3.18*MDL)	**0.0169**	**0.00696**	**0.0429**	**0.318**	**0.0651**
							STD	***0.05***	***0.03***	***0.11***		***0.6***
							RSD	***1.9%***	***1.6%***	***1.5%***		***0.41%***
L47411-16	c370	3010-6r1	03/25/09	03/27/09	040909HGA						7.58	
L47411-16	c370	3010-6r2	03/25/09	03/27/09	040909HGA						7.43	
L47411-16	c370	3010-6r3	03/25/09	03/27/09	040909HGA						7.13	
							Mean				***7.38***	
							STD				***0.23***	
							RSD				***3.1%***	
L47411-19	Ewing Street	3010-7r1	03/25/09	03/27/09		040209-6100	I041009A1	3.82	0.473	13.8		12.1
L47411-19	Ewing Street	3010-7r2	03/25/09	03/27/09		040209-6100	I041009A1	3.81	0.481	14.0		12.0
L47411-19	Ewing Street	3010-7r3	03/25/09	03/27/09		040209-6100	I041009A1	3.81	0.481	13.8		12.0
							Mean	***3.81***	***0.478***	***13.9***		***12.0***
							STD	***0.003***	***0.005***	***0.10***		***0.06***
							RSD	***0.066%***	***1.0%***	***1.0%***		***0.48%***
L47411-22	Ewing Street	3010-8r1	03/25/09	03/27/09	040909HGA						8.04	
L47411-22	Ewing Street	3010-8r2	03/25/09	03/27/09	040909HGA						8.00	
L47411-22	Ewing Street	3010-8r3	03/25/09	03/27/09	040909HGA						8.23	
							Mean				***8.09***	
							STD				***0.12***	
							RSD				***1.5%***	
L47411-27	GL2-3	3010-9r1	03/25/09	03/27/09		040209-6100	I041009A1	13.2	3.16	64.1		60.2
L47411-27	GL2-3	3010-9r2	03/25/09	03/27/09		040209-6100	I041009A1	13.6	3.11	64.9		60.4
L47411-27	GL2-3	3010-9r3	03/25/09	03/27/09		040209-6100	I041009A1	13.5	3.13	65.0		61.1
							Mean	***13.4***	***3.13***	***64.6***		***60.6***
							STD	***0.2***	***0.02***	***0.48***		***0.47***
							RSD	***1.2%***	***0.70%***	***0.75%***		***0.78%***
L47411-30	GL2-3	3010-10r1	03/25/09	03/27/09	040909HGA						4.92	
L47411-30	GL2-3	3010-10r2	03/25/09	03/27/09	040909HGA						4.92	
L47411-30	GL2-3	3010-10r3	03/25/09	03/27/09	040909HGA						4.96	
							Mean				***4.93***	
							STD				***0.02***	
							RSD				***0.47%***	
L47411-31	C370	3010-11r1	03/25/09	03/27/09		040209-6100	I041009A1	1.62	0.217	3.00		141
L47411-31	C370	3010-11r2	03/25/09	03/27/09		040209-6100	I041009A1	1.64	0.226	2.97		141

SPONSOR CODE	Description	Battelle Code	Collection Date	Date Received	Analytical Batch ID Total Hg	Analytical Batch ID ICP-MS (Cd, Pb, Zn)	Analytical Batch ID ICP-OES (Ca, Mg)	Cu (µg/L)	Pb (µg/L)	Zn (µg/L)	Hg (ng/L)	Hardness (mg equivalents of $CaCO_3$/L)
							Method Detection Limits (2009)	**0.0053**	**0.0022**	**0.0135**	**0.100**	**0.0205**
							Reporting Limit (3.18*MDL)	**0.0169**	**0.00696**	**0.0429**	**0.318**	**0.0651**
L47411-31	C370	3010-11r3	03/25/09	03/27/09		040209-6100	I041009A1	1.64	0.223	2.94		141
							Mean	***1.64***	***0.222***	***2.97***		***141***
							STD	***0.01***	***0.005***	***0.03***		***0.00***
							RSD	***0.71%***	***2.1%***	***1.0%***		***0.0%***
L47716-(10-12) use for	GL2-3	3010-16r1			040909HGA						14.5	
L47716-(10-12) use for	GL2-3	3010-16r2			040909HGA						13.6	
L47716-(10-12) use for	GL2-3	3010-16r3			040909HGA						13.6	
							Mean				***13.9***	
							STD				***0.52***	
							RSD				***3.7%***	
Method Blanks												
Method Blank 1					040909HGA	040209-6100	I041009A1	-0.003 U	-0.001 U	0.026 J	0.066 U	0.002 U
Method Blank 2					040909HGA		I041009A1				0.067 U	0.015 U
Method Blank 3					040909HGA						0.080 U	
							Mean				***0.071*** U	***0.0085***
							STD				***0.008***	
							RSD				***11%***	
Blank Spike (OPR) Results												
Blank 1					040909HGA	040209-6100	I041009A1	-0.0030 U	-0.001 U	0.026 J	0.155	0.009 U
Blank Spike					040909HGA	040209-6100	I041009A1	5.15	4.96	5.19	5.43	7.22
Spike Amount								5.00	5.00	5.00	4.96	6.62
Percent Recovery								**103%**	**99%**	**103%**	**106%**	**109%**
Blank 2					040909HGA		I041009A1				0.155	0.009 U
Blank Spike					040909HGA		I041009A1				5.57	7.34
Spike Amount											4.96	6.62
Percent Recovery											**109%**	**111%**

SPONSOR CODE	Description	Battelle Code	Collection Date	Date Received	Analytical Batch ID Total Hg	Analytical Batch ID ICP-MS (Cd, Pb, Zn)	Analytical Batch ID ICP-OES (Ca, Mg)	Cu (µg/L)	Pb (µg/L)	Zn (µg/L)	Hg (ng/L)	Hardness (mg equivalents of $CaCO_3$/L)
						Method Detection Limits (2009)		**0.0053**	**0.0022**	**0.0135**	**0.100**	**0.0205**
						Reporting Limit (3.18*MDL)		**0.0169**	**0.00696**	**0.0429**	**0.318**	**0.0651**
Standard Reference Material Results												
SRM 1	NIST 1640 (ICPMS @ 10x)					040209-6100		94.1	28.9	58.7		45.1
certified value								85.2	27.9	53.2		41.6
Percent Recovery								**110%**	**104%**	**110%**		**108%**
SRM 2	NIST 1640 (ICPMS @ 10x)											46.4
certified value												41.6
Percent Recovery												**112%**
SRM 3	NIST 1641d 040809				040909HGA						1580000	
certified value											1590000	
Percent Recovery											**99.4%**	
Matrix Spike Results												
3010-7 (avg)						040209-6100	I041009A1	3.81	0.478	13.9		12.0
3010-7 MS						040209-6100	I041009A1	23.6	20.0	34.0		81.9
3010-7 MSD						040209-6100	I041009A1	23.9	20.5	33.4		81.7
Spike Amount								20.4	20.4	20		66.2
Percent Recovery, MS								**97.0%**	**95.6%**	**98.8%**		**106%**
Percent Recovery, MSD								**98.3%**	**98.3%**	**95.9%**		**105%**
RPD								**1.4%**	**2.7%**	**3.0%**		**0.27%**
3010-16 (avg)					040909HGA						13.9	
3010-16 MS					040909HGA						46.0	
3010-16 MSD					040909HGA						44.7	
MS spike amount											30.8	
MSD spike amount											30.0	
Percent Recovery, MS											**104%**	
Percent Recovery, MSD											**103%**	
RPD											**1.5%**	

NA not available/applicable
U Not detected at or above MDL
J Less than reporting limit, greater than detection limit; use with caution
Outside data quality objectives

cc: Project Manager/Central File
Login File 3010

SAMPLE LOGIN

(SOP# MSL-A-001)

Project Manager: [redacted]
Date Received: 03/27/09
Batch: 1

PROJECT: King County Environmental Labortory

SPONSOR CODE	Site Description	BATTELLE CODE	MATRIX	STORAGE LOCATION	PARAMETERS REQUESTED	COLLECTION DATE	INITIALS
L47411-1	Ewing St	3010-1	raw water	Prep Lab K-2-D	Total Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-6	Ewing St	3010-2	raw water	Hg Lab	Total Hg	03/25/09	MLFM
L47411-7	GL2-3	3010-3	raw water	Prep Lab K-2-D	Total Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-12	GL2-3	3010-4	raw water	Hg Lab	Total Hg	03/25/09	MLFM
L47411-13	C370	3010-5	raw water	Prep Lab K-2-D	Total Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-16	C370	3010-6	raw water	Hg Lab	Total Hg	03/25/09	MLFM
L47411-19	Ewing St	3010-7	filtered water	Prep Lab K-2-D	Dissolved Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-22	Ewing St	3010-8	filtered water	Hg Lab	Dissolved Hg	03/25/09	MLFM
L47411-27	GL2-3	3010-9	filtered water	Prep Lab K-2-D	Dissolved Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-30	GL2-3	3010-10	filtered water	Hg Lab	Dissolved Hg	03/25/09	MLFM
L47411-31	C370	3010-11	filtered water	Prep Lab K-2-D	Dissolved Cu,Pb,Zn, Hardness	03/25/09	MLFM
L47411-36	C370	3010-12	filtered water	Hg Lab	Dissolved Hg	03/25/09	MLFM

VdS 3/27/09

EL-09-17

KING COUNTY ENVIRONMENTAL LABORATORY 322 West Ewing Street Seattle, WA 98119

LABORATORY WORK ORDER

Project Name: King County Intercalibration Study

Project Number: 421973

Samplers:_____ Laboratory Project Manager: Fritz Grothkopp

	Sample #	Locator	Matrix	Collect Date	Total Cu, Pb, Zn	Total Mercury	Dissolved Cu, Pb, Zn	Dissolved Mercury	Hardness				No. of Containers	Notes
					Parameters									
10.1	L47411-1	Ewing St.	Water	25-Mar-09	x				x					Aliquot 1
	L47411-2	Ewing St.	Water	25-Mar-09	x				x					Aliquot 2
	L47411-3	Ewing St.	Water	25-Mar-09	x				x					Aliquot 3
	L47411-4	Ewing St.	Water	25-Mar-09		x								Aliquot 1
	L47411-5	Ewing St.	Water	25-Mar-09		x								Aliquot 2
2	L47411-6	Ewing St.	Water	25-Mar-09		x								Aliquot 3
3	L47411-7	GL2-3	Water	25-Mar-09	x				x					Aliquot 1
3	L47411-8	GL2-3	Water	25-Mar-09	x				x					Aliquot 2
	L47411-9	GL2-3	Water	25-Mar-09	x				x					Aliquot 3
	L47411-10	GL2-3	Water	25-Mar-09		x								Aliquot 1
	L47411-11	GL2-3	Water	25-Mar-09		x								Aliquot 2
4	L47411-12	GL2-3	Water	25-Mar-09		x								Aliquot 3
5	L47411-13	C370	Water	25-Mar-09	x				x					Aliquot 1
	L47411-14	C370	Water	25-Mar-09	x				x					Aliquot 2
	L47411-15	C370	Water	25-Mar-09	x				x					Aliquot 3
6	L47411-16	C370	Water	25-Mar-09		x								Aliquot 1
	L47411-17	C370	Water	25-Mar-09		x								Aliquot 2
6	L47411-18	C370	Water	25-Mar-09		x								Aliquot 3
7	L47411-19	Ewing St.	Water	25-Mar-09			x							Aliquot 1
	L47411-20	Ewing St.	Water	25-Mar-09			x							Aliquot 2
	L47411-21	Ewing St.	Water	25-Mar-09			x							Aliquot 3
8	L47411-22	Ewing St.	Water	25-Mar-09				x						Aliquot 1
	L47411-23	Ewing St.	Water	25-Mar-09				x						Aliquot 2
	L47411-24	Ewing St.	Water	25-Mar-09				x						Aliquot 3
	L47411-25	GL2-3	Water	25-Mar-09			x							Aliquot 1
	L47411-26	GL2-3	Water	25-Mar-09			x							Aliquot 2
9	L47411-27	GL2-3	Water	25-Mar-09			x							Aliquot 3
	L47411-28	GL2-3	Water	25-Mar-09				x						Aliquot 1
	L47411-29	GL2-3	Water	25-Mar-09				x						Aliquot 2
10	L47411-30	GL2-3	Water	25-Mar-09				x						Aliquot 3
11	L47411-31	C370	Water	25-Mar-09			x							Aliquot 1
	L47411-32	C370	Water	25-Mar-09			x							Aliquot 2
	L47411-33	C370	Water	25-Mar-09			x							Aliquot 3
	L47411-34	C370	Water	25-Mar-09				x						Aliquot 1
	L47411-35	C370	Water	25-Mar-09				x						Aliquot 2
10.12	L47411-36	C370	Water	25-Mar-09				x						Aliquot 3

Total Number of Bottles: 12

Additional Comments:

14 day TAT

RELINQUISHED BY		RECEIVED BY	
Signature	Date 3-26-09	Signature	Date 03/29/09 1115
Printed Name Jason Kinnard	Time 1500	Printed Name HLFMcGahan	Time 1115
Organization RCEL		Organization MSL	

LOG-IN CHECKLIST

Reference SOP# MSL-A-001

Central File #: 3010 Sample No(s): 1-12 Project Manager: Gill

TO BE COMPLETED BY PROJECT MANAGER (prior to arrival when possible)

Matrix: _____ WP# _____

Yes	No	
		Navy-type Project (requires high-level sample tracking procedures)
		Filter Samples: *Amount:* Entire sample Half of sample
		Freeze dry sample(s) - samples will be weighed and placed in ultralow temp freezer (Login Lab)
		Special instructions: _____

Sample Preservation Instructions: _____

Date To Archive: _____ Date To Dispose: _____

TO BE COMPLETED UPON SAMPLE ARRIVAL/LOG-IN

Yes	No	N/A	Indicate in Appropriate Box
	✓		Was a custody seal present?
		✓	Was the custody seal intact?
		✓	Was cooler(s) temperature(s) within acceptable range of 4±2°C or frozen? 12.4 °C (if multiple coolers, note temp. of each) °C
✓			Was Project Manager notified of any custody/login discrepancies (cooler temp, sponsor codes, etc)? Comment/Remedy: Samples preservered in field
✓			Were all chain of custody forms signed and dated?
	✓		Were samples filtered at MSL?

Sample condition(s): Acceptable Other (explain): temp out

Container type: Teflon Poly Glass Cap. Vial Other: _____

Notes: _____

Completed By: [signature] Date/Time: 03/27/09 1115

SAMPLE PRESERVATION

- [ ] Sample(s) were preserved at MSL
- [x] Sample(s) were preserved prior to arrival at MSL (noted on CoC / Sample / per PM Instruction)
- [x] Random pH checked for ~10% of samples (use dip paper) Sample IDs: 3, 7, 10 OK
- [ ] Complete pH check required for project (use pH meter and record on pH Record form)

If preservation necessary, record Acid Lot#

Type:			
		0.2% HNO3	Notes: _____
		0.5% HCl (Hg samples)	Notes: _____
		Refrigerate/Freeze	Notes: _____
	✓	Other	Notes: _____

Completed By: [signature] Date/Time: 03/27/09 1145

Storage Shelf: _____

1,3,5,7,9,11 Preplab K-2-D
2,4,6,8,10,12 Hg lab

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