

October 20, 2011

Utah Department of Environmental Protection  
ATTN: Jodi Gardberg  
195 North 1950 West, Third Floor  
Salt Lake City, UT 84116  
jgardberg@utah.gov

RE: Project UDE-SL1101

Client Project: Great Salt Lake Sampling

Dear Ms. Gardberg,

On September 6, 2011, Brooks Rand Labs (BRL) received four (4) water samples. The samples were logged-in for the contracted analyses of total mercury (Hg), monomethyl mercury (MeHg), arsenic (As), copper (Cu), cadmium (Cd), lead (Pb), selenium (Se), and thallium (Tl). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

**Batch B111419 (Reductive Precipitation – ICP-MS metals)**

Samples *Site #9 Lower (0.5 off bottom)* (1137003-02) and *Site #10 Surface (0.2 below)* (1137003-03) required three filters to complete the reductive precipitation (RP) procedure. This is not typical of most samples for RP preparation and all three filters were digested together per each sample.

Due to limited volume, a matrix spike duplicate could not be performed. There was only sufficient volume to prepare an individual matrix spike and duplicate.

The certified reference materials were certified at a level less than the MRL or not certified for Pb, Se, and Tl analyses. These results were not reported. The seawater laboratory fortified blank [B111419-MS5 (0944029-54)] was spiked appropriately for all parameters.

The Cu analysis of the method duplicate (DUP) and the native sample *Site #9 Surface (0.2 below)* (1137003-01) produced a relative percent difference of 83%. The sample result was qualified **M** for duplicate imprecision.

The Se analysis of the DUP and the associated sample *Site #9 Surface (0.2 below)* (1137003-01) produced results which satisfied the secondary criteria for duplicate precision as the results were less than 5x the MRL and within one MRL of each other. No results were qualified on this basis.

The As, Cd, and Cu analyses of the matrix spike performed on sample *Site #10 Lower (0.5 off bottom)* (1137003-04) produced recoveries less than the lower limit of the acceptance criteria range. The results for these parameters were qualified **N** for inaccuracy.

The matrix spike was spiked with a Pb concentration ~10% of the level of the native sample and the recovery was consequently not reported (though passing).

The average of the method blanks for the Cd analysis was above the acceptance limit; however, the standard deviation of the method blanks was extremely low, meaning the level of measured contamination was being correctly accounted for by method blank-correcting the sample results.

The Pb analysis of the third method blank was determined to be a Grubb's outlier with a result of 0.011 µg/L. The result was omitted from method blank calculations and no further action was necessary.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,



Tiffany Stilwater  
Project Manager  
tiffany@brooksrnd.com



Jen Hartmann  
Project Manager  
jen@brooksrnd.com

## Report Information

### Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

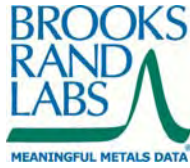
<b>BLK</b>	method blank	<b>MS</b>	matrix spike
<b>BRL</b>	Brooks Rand Labs	<b>MSD</b>	matrix spike duplicate
<b>BS</b>	laboratory fortified blank	<b>ND</b>	non-detect
<b>CAL</b>	calibration standard	<b>NR</b>	non-reportable
<b>CCV</b>	continuing calibration verification	<b>PS</b>	post preparation spike
<b>COC</b>	chain of custody record	<b>REC</b>	percent recovery
<b>CRM</b>	certified reference material	<b>RPD</b>	relative percent difference
<b>D</b>	dissolved fraction	<b>RSD</b>	relative standard deviation
<b>DUP</b>	duplicate	<b>SCV</b>	secondary calibration verification
<b>ICV</b>	initial calibration verification	<b>SOP</b>	standard operating procedure
<b>MDL</b>	method detection limit	<b>SRM</b>	standard reference material
<b>MRL</b>	method reporting limit	<b>T</b>	total recoverable fraction

### Definition of Data Qualifiers

(Effective 9/23/09)

<b>B</b>	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
<b>E</b>	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
<b>H</b>	Holding time and/or preservation requirements not met. Result is estimated.
<b>J</b>	Estimated value. A full explanation is presented in the narrative.
<b>J-M</b>	Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
<b>J-N</b>	Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
<b>M</b>	Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
<b>N</b>	Spike recovery was not within acceptance criteria. Result is estimated.
<b>R</b>	Rejected, unusable value. A full explanation is presented in the narrative.
<b>U</b>	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
<b>X</b>	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand, Ltd., those found in the EPA SOW\_ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses; USEPA; July 2002. These supersede all previous qualifiers ever employed by BRL.

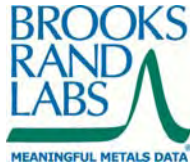


## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
Site #9 Surface (0.2 below)	1137003-01	Water	Sample	08/30/2011	09/06/2011
Site #9 Lower (0.5 off bottom)	1137003-02	Water	Sample	08/30/2011	09/06/2011
Site #10 Surface (0.2 below)	1137003-03	Water	Sample	08/30/2011	09/06/2011
Site #10 Lower (0.5 off bottom)	1137003-04	Water	Sample	08/30/2011	09/06/2011

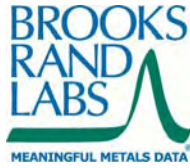
## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
As	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683
Cd	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683
Cu	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683
Hg	Water	EPA 1631	09/20/2011	09/22/2011	B111468	1100653
MeHg	Water	EPA 1630	09/21/2011	09/22/2011	B111389	1100655
Pb	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683
Se	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683
Tl	Water	EPA 1640 RP	09/28/2011	10/03/2011	B111419	1100683



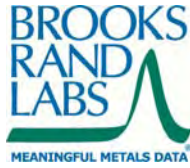
## Sample Results

Sample	Analyte	Report Matrix	Fraction	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>Site #10 Lower (0.5 off bottom)</b>										
1137003-04	As	Water	T	25.3	N	0.06	0.20	µg/L	B111419	1100683
1137003-04	Cd	Water	T	0.009	N, B	0.006	0.020	µg/L	B111419	1100683
1137003-04	Cu	Water	T	1.41	N	0.08	0.20	µg/L	B111419	1100683
1137003-04	Hg	Water	T	5.29		0.15	0.41	ng/L	B111468	1100653
1137003-04	MeHg	Water	T	1.09		0.020	0.051	ng/L	B111389	1100655
1137003-04	Pb	Water	T	1.12		0.004	0.026	µg/L	B111419	1100683
1137003-04	Se	Water	T	0.361	B	0.140	0.400	µg/L	B111419	1100683
1137003-04	Tl	Water	T	0.005	B	0.004	0.020	µg/L	B111419	1100683
<b>Site #10 Surface (0.2 below)</b>										
1137003-03	As	Water	T	18.4		0.03	0.10	µg/L	B111419	1100683
1137003-03	Cd	Water	T	0.006	B	0.003	0.010	µg/L	B111419	1100683
1137003-03	Cu	Water	T	1.14		0.04	0.10	µg/L	B111419	1100683
1137003-03	Hg	Water	T	3.53		0.15	0.41	ng/L	B111468	1100653
1137003-03	MeHg	Water	T	0.819		0.020	0.049	ng/L	B111389	1100655
1137003-03	Pb	Water	T	0.747		0.002	0.013	µg/L	B111419	1100683
1137003-03	Se	Water	T	0.235		0.070	0.200	µg/L	B111419	1100683
1137003-03	Tl	Water	T	0.003	B	0.002	0.010	µg/L	B111419	1100683
<b>Site #9 Lower (0.5 off bottom)</b>										
1137003-02	As	Water	T	25.0		0.03	0.10	µg/L	B111419	1100683
1137003-02	Cd	Water	T	0.015		0.003	0.010	µg/L	B111419	1100683
1137003-02	Cu	Water	T	1.58		0.04	0.10	µg/L	B111419	1100683
1137003-02	Hg	Water	T	4.13		0.15	0.41	ng/L	B111468	1100653
1137003-02	MeHg	Water	T	1.15		0.020	0.050	ng/L	B111389	1100655
1137003-02	Pb	Water	T	0.782		0.002	0.013	µg/L	B111419	1100683
1137003-02	Se	Water	T	0.334		0.070	0.200	µg/L	B111419	1100683
1137003-02	Tl	Water	T	0.006	B	0.002	0.010	µg/L	B111419	1100683



## Sample Results

Sample	Analyte	Report Matrix	Fraction	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>Site #9 Surface (0.2 below)</b>										
1137003-01	As	Water	T	23.8		0.06	0.20	µg/L	B111419	1100683
1137003-01	Cd	Water	T	0.024		0.006	0.020	µg/L	B111419	1100683
1137003-01	Cu	Water	T	5.40	M	0.08	0.20	µg/L	B111419	1100683
1137003-01	Hg	Water	T	4.82		0.15	0.41	ng/L	B111468	1100653
1137003-01	MeHg	Water	T	0.775		0.020	0.049	ng/L	B111389	1100655
1137003-01	Pb	Water	T	1.44		0.004	0.026	µg/L	B111419	1100683
1137003-01	Se	Water	T	0.342	B	0.140	0.400	µg/L	B111419	1100683
1137003-01	Tl	Water	T	0.007	B	0.004	0.020	µg/L	B111419	1100683



## Accuracy & Precision Summary

**Batch:** B111389  
**Lab Matrix:** Water  
**Method:** EPA 1630

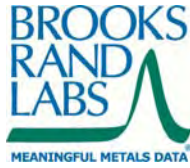
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B111389-BS1	Laboratory Fortified Blank (1138056) MeHg		0.9892	1.029	ng/L	104% 67-133	
B111389-BS2	Laboratory Fortified Blank (1138056) MeHg		1.015	1.047	ng/L	103% 67-133	
B111389-BS3	Laboratory Fortified Blank (1138059) MeHg		0.04918	0.053	ng/L	109% 67-133	
B111389-MS1	Matrix Spike (1136015-07) MeHg	0.134	0.9896	1.103	ng/L	98% 65-135	
B111389-MSD1	Matrix Spike Duplicate (1136015-07) MeHg	0.134	1.007	1.113	ng/L	97% 65-135	0.9% 35

## Accuracy & Precision Summary

**Batch:** B111419  
**Lab Matrix:** Water  
**Method:** EPA 1640 RP

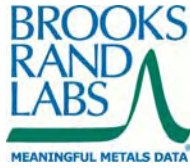
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
<b>B111419-BS2</b>	<b>Laboratory Fortified Blank (1141047)</b>						
	As		1.000	0.92	µg/L	92% 70-130	
	Cd		1.000	0.919	µg/L	92% 70-130	
	Cu		1.000	0.98	µg/L	98% 70-130	
	Pb		0.1300	0.129	µg/L	99% 70-130	
	Se		2.000	1.965	µg/L	98% 70-130	
	Tl		0.1000	0.101	µg/L	101% 70-130	
<b>B111419-SRM1</b>	<b>Certified Reference Material (1136010, SLEW-3)</b>						
	As		1.360	1.46	µg/L	108% 75-125	
	Cd		0.04800	0.050	µg/L	105% 75-125	
<b>B111419-SRM2</b>	<b>Certified Reference Material (1132017, CASS-5)</b>						
	As		1.240	1.00	µg/L	81% 75-125	
	Cd		0.02150	0.019	µg/L	90% 75-125	
<b>B111419-MS5</b>	<b>Matrix Spike (0944029-54)</b>						
	As	0.93	1.000	1.89	µg/L	96% 70-130	
	Cd	0.051	1.000	0.897	µg/L	85% 70-130	
	Cu	0.44	1.000	1.38	µg/L	94% 70-130	
	Pb	0.015	0.1300	0.144	µg/L	99% 70-130	
	Se	0.220	2.000	2.164	µg/L	97% 70-130	
<b>B111419-DUP3</b>	<b>Duplicate (1137003-01)</b>						
	As	23.84		28.60	µg/L		18% 30
	Cd	0.024		0.021	µg/L		13% 30
	Cu	5.40		2.22	µg/L		83% 30
	Pb	1.441		1.271	µg/L		13% 30
	Se	0.342		0.621	µg/L		58% 30
	Tl	0.007		0.007	µg/L		2% 30





## Accuracy & Precision Summary

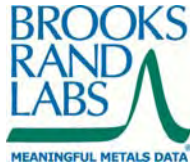
<b>B111419-MS3</b>	<b>Matrix Spike (1137003-04)</b>						
	As	25.26	50.00	53.39	µg/L	56%	70-130
	Cd	0.009	1.000	0.564	µg/L	56%	70-130
	Cu	1.41	20.00	12.87	µg/L	57%	70-130
	Pb	1.115	0.1300	1.240	µg/L	NR	70-130
	Se	0.361	6.000	5.974	µg/L	94%	70-130
	Tl	0.005	0.2000	0.204	µg/L	100%	70-130



## Accuracy & Precision Summary

Batch: B111468  
Lab Matrix: Water  
Method: EPA 1631

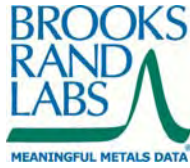
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B111468-SRM1	Certified Reference Material (1137004, NIST 1641d 1000x dilution) Hg		15.68	16.70	ng/L	107% 85-115	
B111468-MS1	Matrix Spike (1137001-03) Hg	3.66	18.47	20.30	ng/L	90% 71-125	
B111468-MSD1	Matrix Spike Duplicate (1137001-03) Hg	3.66	18.61	23.79	ng/L	108% 71-125	16% 24



## Method Blanks & Reporting Limits

**Batch:** B111389  
**Matrix:** Water  
**Method:** EPA 1630  
**Analyte:** MeHg

Sample	Result	Units			
B111389-BLK1	0.005	ng/L			
B111389-BLK2	0.005	ng/L			
B111389-BLK3	0.004	ng/L			
B111389-BLK4	0.005	ng/L			
<b>Average:</b>	0.005		<b>Standard Deviation:</b>	0.001	<b>MDL:</b> 0.020
<b>Limit:</b>	0.045		<b>Limit:</b>	0.015	<b>MRL:</b> 0.049



## Method Blanks & Reporting Limits

**Batch:** B111419  
**Matrix:** Water  
**Method:** EPA 1640 RP  
**Analyte:** As 75

Sample	Result	Units			
B111419-BLK1	0.006	µg/L			
B111419-BLK2	-0.01	µg/L			
B111419-BLK3	0.001	µg/L			
B111419-BLK4	0.01	µg/L			
	<b>Average: 0.00</b>		<b>Standard Deviation: 0.01</b>	<b>MDL: 0.03</b>	
	<b>Limit: 0.10</b>		<b>Limit: 0.03</b>	<b>MRL: 0.10</b>	

**Analyte:** Cd 111

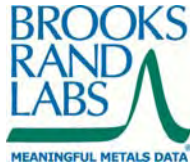
Sample	Result	Units			
B111419-BLK1	0.022	µg/L			
B111419-BLK2	0.021	µg/L			
B111419-BLK3	0.024	µg/L			
B111419-BLK4	0.022	µg/L			
	<b>Average: 0.022</b>		<b>Standard Deviation: 0.001</b>	<b>MDL: 0.003</b>	
	<b>Limit: 0.010</b>		<b>Limit: 0.003</b>	<b>MRL: 0.010</b>	

**Analyte:** Cu 63

Sample	Result	Units			
B111419-BLK1	0.02	µg/L			
B111419-BLK2	0.02	µg/L			
B111419-BLK3	0.05	µg/L			
B111419-BLK4	0.02	µg/L			
	<b>Average: 0.03</b>		<b>Standard Deviation: 0.02</b>	<b>MDL: 0.04</b>	
	<b>Limit: 0.10</b>		<b>Limit: 0.04</b>	<b>MRL: 0.10</b>	

**Analyte:** Pb

Sample	Result	Units			
B111419-BLK1	0.003	µg/L			
B111419-BLK2	0.004	µg/L			
B111419-BLK4	0.003	µg/L			
	<b>Average: 0.003</b>		<b>Standard Deviation: 0.001</b>	<b>MDL: 0.002</b>	
	<b>Limit: 0.013</b>		<b>Limit: 0.002</b>	<b>MRL: 0.013</b>	



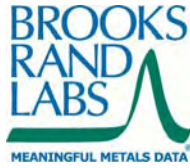
## Method Blanks & Reporting Limits

**Analyte: Se 82**

Sample	Result	Units			
B111419-BLK1	-0.059	µg/L			
B111419-BLK2	-0.033	µg/L			
B111419-BLK3	-0.030	µg/L			
B111419-BLK4	-0.030	µg/L			
	<b>Average: -0.038</b>		<b>Standard Deviation: 0.014</b>	<b>MDL: 0.070</b>	
	<b>Limit: 0.200</b>		<b>Limit: 0.070</b>	<b>MRL: 0.200</b>	

**Analyte: Tl**

Sample	Result	Units			
B111419-BLK1	0.0002	µg/L			
B111419-BLK2	0.0002	µg/L			
B111419-BLK3	0.0002	µg/L			
B111419-BLK4	0.0002	µg/L			
	<b>Average: 0.000</b>		<b>Standard Deviation: 0.000</b>	<b>MDL: 0.002</b>	
	<b>Limit: 0.010</b>		<b>Limit: 0.002</b>	<b>MRL: 0.010</b>	

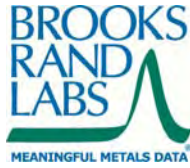


## Method Blanks & Reporting Limits

**Batch:** B111468  
**Matrix:** Water  
**Method:** EPA 1631  
**Analyte:** Hg

Sample	Result	Units
B111468-BLK1	0.08	ng/L
B111468-BLK2	0.009	ng/L
B111468-BLK3	0.10	ng/L
B111468-BLK4	0.05	ng/L

<b>Average:</b> 0.06	<b>Standard Deviation:</b> 0.04	<b>MDL:</b> 0.15
<b>Limit:</b> 0.50	<b>Limit:</b> 0.10	<b>MRL:</b> 0.41



## Sample Containers

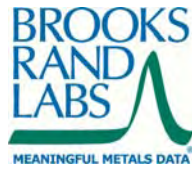
<b>Lab ID:</b> 1137003-01			<b>Report Matrix:</b> Water			<b>Collected:</b> 08/30/2011		
<b>Sample:</b> Site #9 Surface (0.2 below)			<b>Sample Type:</b> Sample			<b>Received:</b> 09/06/2011		
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>	
A	Bottle FLPE Hg-T	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
B	Bottle FLPE Hg-SP	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
C	Bottle HDPE ICP-RP	250 mL	1042753	0.2% HNO3 (BRL)	1129035	<2	Cooler	

<b>Lab ID:</b> 1137003-02			<b>Report Matrix:</b> Water			<b>Collected:</b> 08/30/2011		
<b>Sample:</b> Site #9 Lower (0.5 off bottom)			<b>Sample Type:</b> Sample			<b>Received:</b> 09/06/2011		
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>	
A	Bottle FLPE Hg-T	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
B	Bottle FLPE Hg-SP	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
C	Bottle HDPE ICP-RP	250 mL	1042753	0.2% HNO3 (BRL)	1129035	<2	Cooler	

<b>Lab ID:</b> 1137003-03			<b>Report Matrix:</b> Water			<b>Collected:</b> 08/30/2011		
<b>Sample:</b> Site #10 Surface (0.2 below)			<b>Sample Type:</b> Sample			<b>Received:</b> 09/06/2011		
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>	
A	Bottle FLPE Hg-T	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
B	Bottle FLPE Hg-SP	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
C	Bottle HDPE ICP-RP	250 mL	1042753	0.2% HNO3 (BRL)	1129035	<2	Cooler	

<b>Lab ID:</b> 1137003-04			<b>Report Matrix:</b> Water			<b>Collected:</b> 08/30/2011		
<b>Sample:</b> Site #10 Lower (0.5 off bottom)			<b>Sample Type:</b> Sample			<b>Received:</b> 09/06/2011		
<b>Des</b>	<b>Container</b>	<b>Size</b>	<b>Lot</b>	<b>Preservation</b>	<b>P-Lot</b>	<b>pH</b>	<b>Ship. Cont.</b>	
A	Bottle FLPE Hg-T	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
B	Bottle FLPE Hg-SP	250 mL	71443390 30	.5 mL 18 M H2SO4 (pp)	1132024	<2	Cooler	
C	Bottle HDPE ICP-RP	250 mL	1042753	0.2% HNO3 (BRL)	1129035	<2	Cooler	

**Project ID:** UDE-SL001  
**PM:** Tiffany Stilwater



BRL Report 1137003  
**Client PM:** Jodi Gardberg

## Shipping Containers

### **Cooler**

**Received:** September 6, 2011 13:00  
**Tracking No:** 00096164-03 via USPS  
**Coolant Type:** Ice  
**Temperature:** 20.0 °C

**Description:** Cooler  
**Damaged in transit?** No  
**Returned to client?** No  
**Comments:** Melted Ice in Cooler

**Custody seals present?** No  
**Custody seals intact?** No  
**COC present?** Yes



1137003

White: LAB COPY  
Yellow: CUSTOMER COPY

Client: <u>DAVIS County Health Department</u>		Address: <u>22 South State Street</u> <u>Clearfield, Utah 84015</u>				COC receipt confirmation? <input checked="" type="radio"/> Y / N													
Contact: <u>Rachelle Blackham</u>		MAIL TO: <u>P.O. Box 618</u> <u>Farmington, Utah 84025</u>				If so, by: <u>(email)</u> / fax (circle one)													
Client project ID: <u>WSU-061101</u>		Phone #: <u>801-525-5107</u>				Email: <u>rblackham@co.davis.ut.us</u>													
PO #:		Fax #: <u>801-525-5119</u>																	
Requested TAT in business days: <input checked="" type="checkbox"/> 20 (standard) <input type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> Other _____  Surcharges apply for expedited turn around times.	<b>Collection</b>		<b>Miscellaneous</b>			<b>Field Preservation</b>			<b>Analyses required</b>						<b>Comments</b>				
	Date	Time	Sampler (initials)	Matrix type	# of containers	Field filtered? (Y/N)	<u>Unpreserved</u> ice only	HCl / HNO <sub>3</sub> (circle one)	Other (specify) <u>Sulfuric</u>	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As / Se species (specify)	% Solids		Filtration	Other (specify)	Other (specify)	
<b>Sample ID</b>																			
1	<u>Site #9 surface (0-2 below)</u>	<u>8/30/11</u>	<u>12:25</u>	<u>RB AJ</u>	<u>H2O</u>	<u>2</u>	<u>N</u>	<u>THg</u>	<u>-</u>	<u>X</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Please take H2O from</u>
2	<u>Site #9 Lower (0.5 off bottom)</u>	<u>8/30/11</u>	<u>12:50</u>	<u>RB AJ</u>		<u>2</u>	<u>N</u>	<u>THg</u>	<u>-</u>	<u>X</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Samples at each</u>
3	<u>Site #10 surface (0-2 below)</u>	<u>8/30/11</u>	<u>13:20</u>	<u>RB AJ</u>		<u>2</u>	<u>N</u>	<u>THg</u>	<u>-</u>	<u>X</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Site and Depth (4</u>
4	<u>Site #10 Lower (0.5 off bottom)</u>	<u>8/30/11</u>	<u>13:50</u>	<u>RB AJ</u>		<u>2</u>	<u>N</u>	<u>THg</u>	<u>-</u>	<u>X</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>Samples) and run</u>
5		<u>8/30/11</u>	<u>RB</u>																<u>a total/raw metals</u>
6																			<u>analyses for As/Se</u>
7																			<u>if possible. Contact</u>
8																			<u>Tiffany Stillwater for</u>
9			<u>9:16</u>																<u>questions.</u>
10	<u>David Cooper</u>																		
Relinquished by: <u>R Blackham</u>		Date: <u>8/31/2011</u>		Time: <u>13:45</u>		Relinquished by:		Date:		Time:		Received at BRL by: <u>[Signature]</u>		Date: <u>9/6/11</u>		Time: <u>1300</u>			
Received by:		Date:		Time:		BRL work order ID:		BRL project ID:											
Shipping carrier: <u>USPS</u>		# of coolers: <u>1</u>																	