

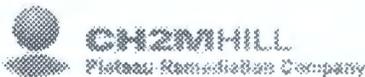
**REISSUE FINAL REPORT FOR THE SAMPLES  
RECEIVED IN FEBRUARY, 2010 FROM PROJECT ID 100  
BC DECISION UNIT**

**Document No.: 20100109 Reissue 1  
SDG: 222S20100109**

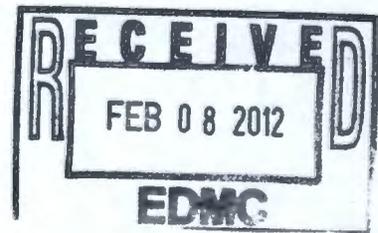
**Gerald P. Ritenour**  
Advanced Technologies and Laboratories International, Inc.

**Date Published**  
March 23, 2010

Prepared for:



Prepared by:



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 3-23-2010  
G. P. Ritenour, Project Manager

## 222-S LABORATORY

REISSUE FINAL REPORT FOR THE SAMPLES RECEIVED IN  
FEBRUARY, 2010 FROM PROJECT ID 100 BC DECISION UNIT

## 1.0 INTRODUCTION

**This report has been reissued in order to correct the data qualifier flag, E, used in Attachment 1. This correction was requested by the client in a Problem and Discrepancy Report (see Attachment 4). The "E" flag has been replaced with the "B" flag as requested.**

This final report presents the results for the three ground water samples taken on February 1, 2010. The samples were analyzed in accordance with Sampling Authorization Form W10-001; *RCRA Ground Water Sampling (SAF)* and ATL-MP-1011; *ATL Quality Assurance Project Plan for 222-S Laboratory (QAPP)*. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Holding Time Report
Attachment 3	Receipt Paperwork
Attachment 4	Problem And Discrepancy Report

## 2.0 SAMPLE RECEIPT AND HANDLING

A total of three samples were received on February 2, 2010 with adequate paperwork. The samples were not in a cooler and did not show evidence of cooling and the client was informed.

## 3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAF. The "Det Limit" column in Attachment 1 contains the method detection limit (MDL).

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For analysis without a preparation step, this column is left blank.

The "Qual Flags" column in Attachment 1 contains data qualifier flags that are defined as follows:

- "U" indicates that the reported result is less than the calculated method detection limit.
- "B" indicates that the result was below the quantitation limit.

Manual calculations using rounded results from the Data Summary Report or result calculation forms may differ slightly from the actual results derived from the raw data.

### 3.1 ANALYSES

#### 3.1.1 Anions by Ion Chromatography

The ion chromatography analysis for anions was performed on direct aliquots of all samples. All requirements in the SAF and QAPP were met. Nitrate was detected below the quantitation level in two of the continuing calibration blanks. Since the concentrations were less than 5% of the lowest sample result, the data quality was not affected and reanalysis not required. The sample duplicate and matrix spike sample for the batch containing these samples was from a different sample delivery group (222S20100093). This sample has been included in Attachment 1 to demonstrate batch precision and accuracy. The nitrate, nitrite, and phosphate holding time of 48 hours was missed for all samples. This was due to the late receipt of the samples at the 222S Laboratory caused by an unscheduled ventilation outage at the primary laboratory. Since the holding times were only missed by 2 to 5 hours, it is the laboratory's opinion that the final results were not affected.

### 4.0 PROCEDURES

Table 1 lists the analytical procedures used for analysis of these samples.

**Table 1. Analytical Procedures.**

Analysis	Preparation Method	Analysis Procedure
Anions by Ion Chromatography	NA	SW846-9056

### 5.0 REFERENCES

ATL-MP-1011, 2009, *ATL Quality Assurance Project Plan for 222-S Laboratory*, Rev. 9, Applied Technologies and Laboratories International, Inc., Richland, Washington.

Sampling Authorization Form W10-001; *RCRA Ground Water Sampling*, 2009, CH2M Hill, Plateau Remediation Company, Richland, Washington

Attachment 1

DATA SUMMARY REPORT

Data Summary of All Results

Sample Group: 20100109

Customer Group or SDG Number: 222S20100109

Customer Sample ID: B22FL2

Sample Portion: Total

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10M000056			16984-48-8	Fluoride	ug/mL	95.6	<6.16E-03	0.177	n/a	n/a	n/a	n/a	6.16E-03	n/a	
S10M000056			16887-00-6	Chloride	ug/mL	102	<3.10E-03	11.1	n/a	n/a	n/a	n/a	0.0186	n/a	
S10M000056			14797-65-0	Nitrite	ug/mL	93.2	<0.0400	<0.0400	n/a	n/a	n/a	n/a	0.0400	n/a	U
S10M000056			24959-67-9	Bromide	ug/mL	102	<0.0237	0.0914	n/a	n/a	n/a	n/a	0.0237	n/a	B
S10M000056			14797-55-8	Nitrate	ug/mL	101	<0.0162	10.4	n/a	n/a	n/a	n/a	0.0972	n/a	
S10M000056			14265-44-2	Phosphate	ug/mL	99.4	<0.0381	<0.0381	n/a	n/a	n/a	n/a	0.0381	n/a	U
S10M000056			14808-79-8	Sulfate	ug/mL	101	<0.0219	44.7	n/a	n/a	n/a	n/a	0.131	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

Data Summary of All Results

Sample Group: 20100109

Customer Group or SDG Number: 222S20100109

Customer Sample ID: B22FL3

Sample Portion: Total

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10M000058			16984-48-8	Fluoride	ug/mL	95.6	<6.16E-03	0.143	n/a	n/a	n/a	n/a	6.16E-03	n/a	
S10M000058			16887-00-6	Chloride	ug/mL	102	<3.10E-03	9.29	n/a	n/a	n/a	n/a	0.0186	n/a	
S10M000058			14797-65-0	Nitrite	ug/mL	93.2	<0.0400	<0.0400	n/a	n/a	n/a	n/a	0.0400	n/a	U
S10M000058			24959-67-9	Bromide	ug/mL	102	<0.0237	0.0834	n/a	n/a	n/a	n/a	0.0237	n/a	B
S10M000058			14797-55-8	Nitrate	ug/mL	101	<0.0162	9.88	n/a	n/a	n/a	n/a	0.0162	n/a	
S10M000058			14265-44-2	Phosphate	ug/mL	99.4	<0.0381	<0.0381	n/a	n/a	n/a	n/a	0.0381	n/a	U
S10M000058			14808-79-8	Sulfate	ug/mL	101	<0.0219	40.7	n/a	n/a	n/a	n/a	0.131	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

Data Summary of All Results

Sample Group: 20100109

Customer Group or SDG Number: 222S20100109

Customer Sample ID: B22FL4

Sample Portion: Total

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10M000057			16984-48-8	Fluoride	ug/mL	95.6	<6.16E-03	0.133	n/a	n/a	n/a	n/a	6.16E-03	n/a	
S10M000057			16887-00-6	Chloride	ug/mL	102	<3.10E-03	9.32	n/a	n/a	n/a	n/a	0.0186	n/a	
S10M000057			14797-65-0	Nitrite	ug/mL	93.2	<0.0400	<0.0400	n/a	n/a	n/a	n/a	0.0400	n/a	U
S10M000057			24959-67-9	Bromide	ug/mL	102	<0.0237	0.0827	n/a	n/a	n/a	n/a	0.0237	n/a	B
S10M000057			14797-55-8	Nitrate	ug/mL	101	<0.0162	9.88	n/a	n/a	n/a	n/a	0.0162	n/a	
S10M000057			14265-44-2	Phosphate	ug/mL	99.4	<0.0381	<0.0381	n/a	n/a	n/a	n/a	0.0381	n/a	U
S10M000057			14808-79-8	Sulfate	ug/mL	101	<0.0219	40.9	n/a	n/a	n/a	n/a	0.131	n/a	

NA = Not Analyzed, ND = Not Detected

U - < Det Limit

B - Estimated

### Data Summary of All Results

#### Batch QC Sample

Sample Group: 20100093  
Customer Group or SDG Number: 222S20100093  
Customer Sample ID: B23D35  
Sample Portion: Total

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10M000061			16984-48-8	Fluoride	ug/mL	95.6	<6.16E-03	0.665	0.663	0.664	0.283	94.9	6.16E-03	n/a	
S10M000061			16887-00-6	Chloride	ug/mL	102	<3.10E-03	17.9	17.8	17.9	0.502	94.5	0.0341	n/a	
S10M000061			14797-65-0	Nitrite	ug/mL	93.2	<0.0400	<0.440	<0.440	n/a	n/a	95.8	0.440	n/a	U
S10M000061			24959-67-9	Bromide	ug/mL	102	<0.0237	0.299	0.283	0.291	5.61	100	0.0237	n/a	
S10M000061			14797-55-8	Nitrate	ug/mL	101	<0.0162	120	119	120	0.692	106	0.178	n/a	
S10M000061			14265-44-2	Phosphate	ug/mL	99.4	<0.0381	<0.419	<0.419	n/a	n/a	106	0.419	n/a	U
S10M000061			14808-79-8	Sulfate	ug/mL	101	<0.0219	35.5	35.0	35.3	1.45	104	0.241	n/a	

E - Estimated

U - Less Than Detection Limit

Attachment 2

HOLDING TIME REPORT

**Hold Time Report - Anions**

<b>Client Sample ID</b>	<b>Sample Group</b>	<b>Lab Sample ID</b>	<b>Matrix</b>	<b>Method</b>	<b>Sample Date</b>	<b>Received Date</b>	<b>Analysis Date</b>	<b>Lapse Time (hours)</b>	<b>Missed Holding Time</b>
B22FL2	20100109	S10M000056	LIQUID	SW846-9056	02/01/10 09:05	02/02/10 15:40	2/3/2010 14:13	53	Y
B22FL4	20100109	S10M000057	LIQUID	SW846-9056	02/01/10 13:30	02/02/10 15:40	2/3/2010 15:53	50	Y
B22FL3	20100109	S10M000058	LIQUID	SW846-9056	02/01/10 13:30	02/02/10 15:40	2/3/2010 16:06	51	Y

Attachment 3

RECEIPT PAPERWORK

<b>ATL</b>	<b>SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST</b>	LO-090-101 Rev <u>DD-1</u>
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Date Samples Received: 2-2-10      Group #: ~~222520100109~~ MK  
 Number of Samples: 7      222520100109 2/8/10  
 Sample Custodian: TM Colloc

**Sample Custodian to Complete:**

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	Y		
RSR provided?		N	
Verify GKI is complete		N	
Check that outer custody seal is intact, if present	Y		
Record cooler temperature in centigrade, as appropriate	N		<input checked="" type="checkbox"/> Check if no cooler and/or no ice
Samples are intact and in good condition	Y		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	Y		
• Date and time of sampling	Y		
• Sampling location or origin	Y		
• Container type, size, and number	Y		
• Analysis request is clear	Y		
• Signature of persons relinquishing and receiving samples	Y		
• Date and/or time of sample custody exchange	Y		
Verify that sample numbers on containers match the COC and/or RSA	Y		
Samples stored properly (e.g., refrigeration)	Y		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

**PM to Complete:**

Samples acceptable for release? Yes      PM Initials DPR      Date 2/2/2010

If No, comment on communication and resolution:

Other Comments:

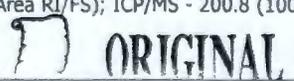
CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						F09-067-364	PAGE 1 OF 1		
COLLECTOR <i>A Emerson</i>		COMPANY CONTACT DYEKMAN, DL		TELEPHONE NO. 373-2530		PROJECT COORDINATOR DYEKMAN, DL		PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION C7665; I-012		PROJECT DESIGNATION 100-BC Decision Unit-Groundwater				SAF NO. F09-067		AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. <i>N/A</i>		FIELD LOGBOOK NO. <i>HNF-N-585-13</i>		ACTUAL SAMPLE DEPTH <i>75</i>		COA 300080ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO <i>2225</i> <i>see 2-12-10</i> Waste Sampling & Characterization <i>100230</i>		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A					
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993) <i>2225201001039</i> <i>222520100043</i> <i>1 APR 2/13/10</i>		PRESERVATION HCl or H2SO4 to pH <2/Cool-4C aGs*		HNO3 to pH <2	None	Cool-4C				
		TYPE OF CONTAINER		G/P	G/P	G/P	G/P	G	P		
		NO. OF CONTAINER(S)		3	1	1	1	1	1		
		VOLUME		40mL	500mL	500mL	500mL	500mL	250mL	500mL	
		SPECIAL HANDLING AND/OR STORAGE		V9A - 8260 (TCL 100 Area RI/FS);	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	200.8_HG - ICPMS (Mercury)	Gamma Spectroscopy (100 Area RI/FS);	Gross Alpha (Gross alpha) Gross Beta (Gross beta)	Tritium - Ion Ex (Tritium)	IC Anions - 300.0 (100 Area RI/FS);	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B22FL2	WATER	<i>2/1/10</i>	<i>0905</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>510m0005L</i>											
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM <i>Adam Emerson</i>		DATE/TIME <i>2/1/10 1525</i>		RECEIVED BY/STORED IN <i>MDKessler</i>		DATE/TIME <i>2/1/10 1525</i>		** The CACN for all analytical work at WSCF laboratory is 401640ES20. ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI-applies to this SAF.  ** The laboratories must meet prior requested and confirmed turnaround times and RDLs. The laboratories must notify the SM Project Coordinator in writing within 24 hrs of sample receipt if/when this requirement can not be met.  ** Sample Management will provide copies of data to both the Task Manager, the Requester, and Mary Hartman. In addition please send copies of data to Tessa Buswell, per Greg Kaszas request. (1)ICP Metals - 6010 (100 Area RI/FS); ICP/MS - 200.8 (100 Area RI/FS);			
RELINQUISHED BY/REMOVED FROM <i>MDKessler</i>		DATE/TIME <i>2/2/10 1530</i>		RECEIVED BY/STORED IN <i>RD Julian</i>		DATE/TIME <i>FEB 02 2010 1530</i>					
RELINQUISHED BY/REMOVED FROM <i>RD Julian</i>		DATE/TIME <i>FEB 02 2010 1540</i>		RECEIVED BY/STORED IN <i>TO McPherson</i>		DATE/TIME <i>FEB 02 2010 1540</i>					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
LABORATORY SECTION	RECEIVED BY	TITLE				DATE/TIME					
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY				DATE/TIME					

REVISION 1

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						F09-067-366	PAGE 1 OF 1			
COLLECTOR <i>A Emerson</i>		COMPANY CONTACT DYEKMAN, DL		TELEPHONE NO. 373-2530		PROJECT COORDINATOR DYEKMAN, DL		PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days			
SAMPLING LOCATION C7665; I-013D		PROJECT DESIGNATION 100-BC Decision Unit-Groundwater				SAF NO. F09-067		AIR QUALITY <input type="checkbox"/>				
ICE CHEST NO. <i>N/A</i>		FIELD LOGBOOK NO. <i>HNF-N-585-13</i>		ACTUAL SAMPLE DEPTH <i>80 ft.</i>		COA 300080ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE				
SHIPPED TO <i>Waste Sampling &amp; Characterization</i>		OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A								
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soll SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)  <i>2225201001989</i> <i>22252010093</i> <i>DR</i> <i>02/09/10</i>		PRESERVATION HCl or H2SO4 to pH <2/Cool~4C		HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	None	Cool~4C	
		TYPE OF CONTAINER aGs*		G/P	G/P	G/P	G/P	G	P			
		NO. OF CONTAINER(S)		3	1	1	1	1	1	1		
		VOLUME		40mL	500mL	500mL	500mL	500mL	250mL	500mL		
		SPECIAL HANDLING AND/OR STORAGE		SAMPLE ANALYSIS		VOA - 8260 (TCL 100 Area RI/FS);	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	200.8_HG - ICPMS (Mercury)	Gamma Spectroscopy (100 Area RI/FS);	Gross Alpha (Gross alpha) Gross Beta (Gross beta)	Tritium - Ion Ex (Tritium)	IC Anions - 300.0 (100 Area RI/FS);
SAMPLE NO.		MATRIX*		SAMPLE DATE		SAMPLE TIME						
B22FL4		WATER		2/1/10		1330						
<i>510M000057</i>												
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS				
RELINQUISHED BY/REMOVED FROM <i>Adam Emerson</i>		DATE/TIME <i>2/1/10 1525</i>		RECEIVED BY/STORED IN <i>MD Kessler</i>		DATE/TIME <i>2/1/10 1525</i>		** The CACN for all analytical work at WSCF laboratory is 401640ES20. ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** The laboratories must meet prior requested and confirmed turnaround times and RD.Ls. The laboratories must notify the SM Project Coordinator in writing within 24 hrs of sample receipt if/when this requirement can not be met. ** Sample Management will provide copies of data to both the Task Manager, the Requester, and Mary Hartman. In addition please send copies of data to Tessa Buswell, per Greg Kaszas request. (1)ICP Metals - 6010 (100 Area RI/FS); ICP/MS - 200.8 (100 Area RI/FS);				
RELINQUISHED BY/REMOVED FROM <i>MD Kessler</i>		DATE/TIME <i>FEB 02 2010 1530</i>		RECEIVED BY/STORED IN <i>RD Julian</i>		DATE/TIME <i>FEB 02 2010 1530</i>						
RELINQUISHED BY/REMOVED FROM <i>RD Julian</i>		DATE/TIME <i>FEB 02 2010 1540</i>		RECEIVED BY/STORED IN <i>MD Kessler</i>		DATE/TIME <i>FEB 02 2010 1540</i>						
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME						
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME						
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME						
LABORATORY SECTION		RECEIVED BY		TITLE				DATE/TIME				
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD		DISPOSED BY				DATE/TIME				

**ORIGINAL**

REVISION 1

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						F09-067-365	PAGE 1 OF 1		
COLLECTOR <i>A Emerson</i>		COMPANY CONTACT DYEKMAN, DL		TELEPHONE NO. 373-2530		PROJECT COORDINATOR DYEKMAN, DL		PRICE CODE 7N	DATA TURNAROUND 45 Days / 45 Days		
SAMPLING LOCATION C7665; I-013		PROJECT DESIGNATION 100-BC Decision Unit-Groundwater				SAF NO. F09-067		AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. <i>N/A</i>		FIELD LOGBOOK NO. <i>HNF-N-585-13</i>		ACTUAL SAMPLE DEPTH <i>80ft</i>		COA 300080ES10		METHOD OF SHIPMENT GOVERNMENT VEHICLE			
SHIPPED TO <i>Waste Sampling &amp; Characterization</i>		OFFSITE PROPERTY NO. N/A				BILL OF LADING/AIR BILL NO. N/A					
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)  <i>222520100109</i> <i>222520100093</i>		PRESERVATION HCl or H2SO4 to pH <2/Cool~4C		HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	None	Cool~4C
		TYPE OF CONTAINER		aGs*	G/P	G/P	G/P	G/P	G	P	
		NO. OF CONTAINER(S)		3	1	1	1	1	1	1	
		VOLUME		40mL	500mL	500mL	500mL	500mL	250mL	500mL	
		SPECIAL HANDLING AND/OR STORAGE		VCA - 8260 (TCL 100 Area RI/FS);	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	200.8_Hg - ICP/MS (Mercury)	Gamma Spectroscopy (100 Area RI/FS);	Gross Alpha (Gross alpha) Gross Beta (Gross beta)	Tritium - Ion Ex (Tritium)	IC Anions - 300.0 (100 Area RI/FS);	
SAMPLE NO.		MATRIX*		SAMPLE DATE	SAMPLE TIME						
B22FL3		WATER		2/1/10	1330	✓	✓	✓	✓	✓	
<i>S10M000058</i>											
CHAIN OF POSSESSION				SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM <i>Adam Emerson</i>		DATE/TIME 2/1/10 1525		RECEIVED BY/STORED IN <i>MD Kessler</i>		DATE/TIME 2/1/10 1525		** The CACN for all analytical work at WSCF laboratory is 401640ES20. ** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.  ** The laboratories must meet prior requested and confirmed turnaround times and RDLs. The laboratories must notify the SM Project Coordinator in writing within 24 hrs of sample receipt if/when this requirement can not be met.  ** Sample Management will provide copies of data to both the Task Manager, the Requester, and Mary Hartman. In addition please send copies of data to Tessa Buswell, per Greg Kaszas request. (1)ICP Metals - 6010 (100 Area RI/FS); ICP/MS - 200.8 (100 Area RI/FS);			
RELINQUISHED BY/REMOVED FROM <i>MD Kessler</i>		DATE/TIME FEB 02 2010 1530		RECEIVED BY/STORED IN <i>MD Julian</i>		DATE/TIME FEB 02 2010 1530					
RELINQUISHED BY/REMOVED FROM <i>MD Julian</i>		DATE/TIME FEB 02 2010 1540		RECEIVED BY/STORED IN <i>Tessa Buswell</i>		DATE/TIME FEB 02 2010 1540					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
RELINQUISHED BY/REMOVED FROM		DATE/TIME		RECEIVED BY/STORED IN		DATE/TIME					
LABORATORY SECTION		RECEIVED BY				TITLE		DATE/TIME			
FINAL SAMPLE DISPOSITION		DISPOSAL METHOD				DISPOSED BY		DATE/TIME			

14

20100107 RECEIVED

REVISION 1

Attachment 4

PROBLEM AND DISCREPENCY REPORT

**Problem and Discrepancy Report****222S****SDG 222S20100109**

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**1. The data package has the following issues:**

- a) For inorganic analysis, a qualifier of B needs to replace the E currently used to identify a result between the RDL and MDL.

**Resolution:** *Provide qualifier correction.*

**Lab Response:**

Please correct the issues and resubmit the hard copy and electronic data package.