



ANALYTICAL SUMMARY REPORT

April 28, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030099 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 2 samples for Crow Butte Resources on 3/2/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030099-001	E. Driller's Well	02/25/11 0:00	03/02/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030099-002	W. Driller's Well	02/25/11 0:00	03/02/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11030099

Report Date: 04/28/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030099-001
Client Sample ID: E. Driller's Well

Report Date: 04/28/11
Collection Date: 02/25/11
Date Received: 03/02/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	157	mg/L		1		A2320 B	03/03/11 17:48 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/03/11 17:48 / jba
Bicarbonate as HCO ₃	190	mg/L		1		A2320 B	03/03/11 17:48 / jba
Calcium	33	mg/L		1		E200.7	03/07/11 19:47 / cp
Chloride	3	mg/L		1		E300.0	03/05/11 00:54 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	03/04/11 10:35 / jba
Magnesium	9	mg/L		1		E200.7	03/07/11 19:47 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/08/11 15:41 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/03/11 15:35 / dc
Potassium	3	mg/L		1		E200.7	03/07/11 19:47 / cp
Silica	80.3	mg/L		0.2		E200.7	03/07/11 19:47 / cp
Sodium	18	mg/L		1		E200.7	03/07/11 19:47 / cp
Sulfate	7	mg/L		1		E300.0	03/05/11 00:54 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	306	umhos/cm		1		A2510 B	03/03/11 14:37 / lr
pH	8.00	s.u.		0.01		A4500-H B	03/03/11 14:37 / lr
Solids, Total Dissolved TDS @ 180 C	227	mg/L		10		A2540 C	03/03/11 10:45 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/07/11 19:47 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/10/11 02:19 / sml
Barium	0.1	mg/L		0.1		E200.7	03/07/11 19:47 / cp
Boron	ND	mg/L		0.1		E200.7	03/07/11 19:47 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/07/11 19:47 / cp
Chromium	ND	mg/L		0.05		E200.7	03/07/11 19:47 / cp
Copper	ND	mg/L		0.01		E200.7	03/07/11 19:47 / cp
Iron	ND	mg/L		0.03		E200.7	03/07/11 19:47 / cp
Lead	ND	mg/L		0.001		E200.8	03/10/11 02:19 / sml
Manganese	ND	mg/L		0.01		E200.7	03/07/11 19:47 / cp
Mercury	ND	mg/L		0.001		E200.8	03/10/11 02:19 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/07/11 19:47 / cp
Nickel	ND	mg/L		0.05		E200.7	03/07/11 19:47 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/10/11 02:19 / sml
Uranium	0.0079	mg/L		0.0003		E200.8	03/10/11 02:19 / sml
Uranium, Activity	5.3E-09	uCi/mL		2.0E-10		E200.8	03/10/11 02:19 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/07/11 19:47 / cp
Zinc	0.01	mg/L		0.01		E200.7	03/07/11 19:47 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/10/11 07:19 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/10/11 07:19 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030099-001
Client Sample ID: E. Driller's Well

Report Date: 04/28/11
Collection Date: 02/25/11
Date Received: 03/02/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/23/11 05:23 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/23/11 05:23 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/23/11 05:23 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/11/11 13:06 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/11/11 13:06 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/11/11 13:06 / ep
Radium 226	1.4	pCi/L		0.14		E903.0	03/14/11 17:02 / dmf
Radium 226 precision (±)	0.23	pCi/L				E903.0	03/14/11 17:02 / dmf
Radium 226 MDC	0.14	pCi/L				E903.0	03/14/11 17:02 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/17/11 08:52 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/17/11 08:52 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/17/11 08:52 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.3	pCi/L	U	1.3		E909.0	03/27/11 09:26 / eli-cs
Lead 210 precision (±)	0.8	pCi/L				E909.0	03/27/11 09:26 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	03/27/11 09:26 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/16/11 13:29 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/16/11 13:29 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/16/11 13:29 / ep
Radium 226	0.14	pCi/L		0.09		E903.0	03/27/11 13:40 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/27/11 13:40 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	03/27/11 13:40 / trs
Thorium 230	4.6	pCi/L		0.1		E908.0	03/14/11 14:50 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E908.0	03/14/11 14:50 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/14/11 14:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.11	%				Calculation	03/16/11 14:47 / kbh
Anions	3.45	meq/L				Calculation	03/16/11 14:47 / kbh
Cations	3.24	meq/L				Calculation	03/16/11 14:47 / kbh
Solids, Total Dissolved Calculated	273	mg/L				Calculation	03/16/11 14:47 / kbh
TDS Balance (0.80 - 1.20)	0.830					Calculation	03/16/11 14:47 / kbh

Report Definitions:
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MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030099-002
Client Sample ID: W. Driller's Well

Report Date: 04/28/11
Collection Date: 02/25/11
Date Received: 03/02/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	146	mg/L		1		A2320 B	03/03/11 17:55 / jba
Carbonate as CO3	1	mg/L		1		A2320 B	03/03/11 17:55 / jba
Bicarbonate as HCO3	175	mg/L		1		A2320 B	03/03/11 17:55 / jba
Calcium	29	mg/L		1		E200.7	03/07/11 19:51 / cp
Chloride	2	mg/L		1		E300.0	03/05/11 01:09 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	03/04/11 10:44 / jba
Magnesium	7	mg/L		1		E200.7	03/07/11 19:51 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/08/11 15:43 / dc
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	03/16/11 12:14 / dc
Potassium	3	mg/L		1		E200.7	03/07/11 19:51 / cp
Silica	79.4	mg/L		0.2		E200.7	03/07/11 19:51 / cp
Sodium	20	mg/L		1		E200.7	03/07/11 19:51 / cp
Sulfate	10	mg/L		1		E300.0	03/05/11 01:09 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	299	umhos/cm		1		A2510 B	03/03/11 14:40 / lr
pH	8.02	s.u.		0.01		A4500-H B	03/03/11 14:40 / lr
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	03/03/11 10:45 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/07/11 19:51 / cp
Arsenic	0.006	mg/L		0.001		E200.8	03/10/11 02:25 / sml
Barium	ND	mg/L		0.1		E200.7	03/07/11 19:51 / cp
Boron	ND	mg/L		0.1		E200.7	03/07/11 19:51 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/07/11 19:51 / cp
Chromium	ND	mg/L		0.05		E200.7	03/07/11 19:51 / cp
Copper	ND	mg/L		0.01		E200.7	03/07/11 19:51 / cp
Iron	ND	mg/L		0.03		E200.7	03/07/11 19:51 / cp
Lead	ND	mg/L		0.001		E200.8	03/10/11 02:25 / sml
Manganese	ND	mg/L		0.01		E200.7	03/07/11 19:51 / cp
Mercury	ND	mg/L		0.001		E200.8	03/10/11 02:25 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/07/11 19:51 / cp
Nickel	ND	mg/L		0.05		E200.7	03/07/11 19:51 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/10/11 02:25 / sml
Uranium	0.0053	mg/L		0.0003		E200.8	03/10/11 02:25 / sml
Uranium, Activity	3.6E-09	uCi/mL		2.0E-10		E200.8	03/10/11 02:25 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/07/11 19:51 / cp
Zinc	0.01	mg/L		0.01		E200.7	03/07/11 19:51 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/10/11 07:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/10/11 07:23 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030099-002
Client Sample ID: W. Driller's Well

Report Date: 04/28/11
Collection Date: 02/25/11
Date Received: 03/02/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/23/11 11:58 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/23/11 11:58 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/23/11 11:58 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	03/11/11 13:06 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/11/11 13:06 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	03/11/11 13:06 / ep
Radium 226	0.70	pCi/L		0.15		E903.0	03/14/11 17:02 / dmf
Radium 226 precision (±)	0.18	pCi/L				E903.0	03/14/11 17:02 / dmf
Radium 226 MDC	0.15	pCi/L				E903.0	03/14/11 17:02 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/17/11 08:52 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/17/11 08:52 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/17/11 08:52 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	03/27/11 16:01 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	03/27/11 16:01 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/27/11 16:01 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/16/11 13:29 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/16/11 13:29 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/16/11 13:29 / ep
Radium 226	0.11	pCi/L		0.1		E903.0	03/27/11 13:40 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/27/11 13:40 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	03/27/11 13:40 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/14/11 14:49 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/14/11 14:49 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/14/11 14:49 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.29	%				Calculation	03/16/11 14:48 / kbh
Anions	3.22	meq/L				Calculation	03/16/11 14:48 / kbh
Cations	3.01	meq/L				Calculation	03/16/11 14:48 / kbh
Solids, Total Dissolved Calculated	260	mg/L				Calculation	03/16/11 14:48 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	03/16/11 14:48 / kbh

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: R143283		
Sample ID: MBLK	3	Method Blank				Run: MANTECH_110303A		03/03/11 16:20		
Alkalinity, Total as CaCO3		4	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		4	mg/L		1					
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_110303A		03/03/11 16:35		
Alkalinity, Total as CaCO3		214	mg/L	5.0	105	90	110			
Sample ID: C11030099-002BDUP	3	Sample Duplicate				Run: MANTECH_110303A		03/03/11 18:04		
Alkalinity, Total as CaCO3		149	mg/L	5.0				2.0	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		181	mg/L	5.0				3.1	10	
Sample ID: C11030099-002BMS		Sample Matrix Spike				Run: MANTECH_110303A		03/03/11 18:12		
Alkalinity, Total as CaCO3		277	mg/L	5.0	105	80	120			

Qualifiers:

RL - Analyte reporting limit.

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B								Analytical Run: ORION555A-2_110303A			
Sample ID: ICV2_110303_1	Initial Calibration Verification Standard									03/03/11 14:21	
Conductivity @ 25 C		1390	umhos/cm	1.0	99	90	110				
Method: A2510 B								Batch: 110303_1_PH-W_555A-2			
Sample ID: MBLK1_110303_1	Method Blank									Run: ORION555A-2_110303A	03/03/11 14:18
Conductivity @ 25 C		0.6	umhos/cm	0.2							
Sample ID: C11030104-001ADUP	Sample Duplicate									Run: ORION555A-2_110303A	03/03/11 14:46
Conductivity @ 25 C		1090	umhos/cm	1.0				0.2	10		

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/28/11
Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R143314
Sample ID: MBLK1_		Method Blank					Run: BAL-1_110303B			03/03/11 10:43
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_		Laboratory Control Sample					Run: BAL-1_110303B			03/03/11 10:43
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C11030105-004ADUP		Sample Duplicate					Run: BAL-1_110303B			03/03/11 10:47
Solids, Total Dissolved TDS @ 180 C		2030	mg/L	10				0.1	10	
Sample ID: C11030105-011AMS		Sample Matrix Spike					Run: BAL-1_110303B			03/03/11 10:49
Solids, Total Dissolved TDS @ 180 C		2630	mg/L	10	102	90	110			

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R143304
Sample ID: MBLK		Method Blank								Run: MANTECH_110304A
Fluoride		0.02	mg/L	0.008						03/04/11 09:01
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110304A
Fluoride		1.02	mg/L	0.10	100	90	110			03/04/11 09:04
Sample ID: C11030099-001BMS		Sample Matrix Spike								Run: MANTECH_110304A
Fluoride		1.51	mg/L	0.10	100	80	120			03/04/11 10:38
Sample ID: C11030099-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110304A
Fluoride		1.51	mg/L	0.10	100	80	120	0.0	10	03/04/11 10:41

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B		Analytical Run: ORION555A-2_110303A								
Sample ID: ICV1_110303_1	Initial Calibration Verification Standard									
pH		6.90	s.u.	0.010	101	98	102			03/03/11 14:19
Method: A4500-H B		Batch: 110303_1_PH-W_555A-2								
Sample ID: C11030104-001ADUP	Sample Duplicate									
pH		6.93	s.u.	0.010				0.9	3	Run: ORION555A-2_110303A 03/03/11 14:46

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R143422
Sample ID: MBLK-6		Method Blank								Run: TECHNICON_110308A
Nitrogen, Ammonia as N		ND	mg/L	0.02						03/08/11 12:01
Sample ID: LCS-7		Laboratory Control Sample								Run: TECHNICON_110308A
Nitrogen, Ammonia as N		1.92	mg/L	0.050	96	90	110			03/08/11 12:03
Sample ID: C11030107-002IMS		Sample Matrix Spike								Run: TECHNICON_110308A
Nitrogen, Ammonia as N		2.10	mg/L	0.050	97	80	120			03/08/11 15:51
Sample ID: C11030107-002IMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110308A
Nitrogen, Ammonia as N		2.13	mg/L	0.050	98	80	120	1.4	10	03/08/11 15:53

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R143378										
Sample ID: MB-110307A	17	Method Blank								
							Run: ICP2-C_110307A			03/07/11 13:04
Aluminum		ND	mg/L	0.01						
Barium		0.002	mg/L	0.0005						
Boron		ND	mg/L	0.009						
Cadmium		ND	mg/L	0.001						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Silicon		ND	mg/L	0.007						
Sodium		ND	mg/L	0.3						
Vanadium		0.001	mg/L							
Zinc		ND	mg/L	0.001						
Sample ID: LFB-110307A	17	Laboratory Fortified Blank								
							Run: ICP2-C_110307A			03/07/11 13:08
Aluminum		0.901	mg/L	0.10	90	85	115			
Barium		0.946	mg/L	0.10	94	85	115			
Boron		0.923	mg/L	0.10	92	85	115			
Cadmium		0.974	mg/L	0.010	97	85	115			
Calcium		49.0	mg/L	0.50	98	85	115			
Chromium		0.946	mg/L	0.050	95	85	115			
Copper		0.937	mg/L	0.010	94	85	115			
Iron		0.983	mg/L	0.030	98	85	115			
Magnesium		50.0	mg/L	0.50	100	85	115			
Manganese		0.957	mg/L	0.010	96	85	115			
Molybdenum		0.977	mg/L	0.10	98	85	115			
Nickel		0.967	mg/L	0.050	97	85	115			
Potassium		44.1	mg/L	0.50	88	85	115			
Silicon		0.429	mg/L	0.10	91	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Vanadium		1.02	mg/L	0.10	102	85	115			
Zinc		0.950	mg/L	0.010	95	85	115			
Sample ID: C11030022-001CMS2	17	Sample Matrix Spike								
							Run: ICP2-C_110307A			03/07/11 19:26
Aluminum		1.98	mg/L	0.10	97	70	130			
Barium		2.05	mg/L	0.10	97	70	130			
Boron		2.34	mg/L	0.10	97	70	130			
Cadmium		2.01	mg/L	0.010	98	70	130			
Calcium		201	mg/L	1.0	101	70	130			
Chromium		2.00	mg/L	0.050	98	70	130			
Copper		2.05	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R143378										
Sample ID: C11030022-001CMS2	17	Sample Matrix Spike								
Run: ICP2-C_110307A 03/07/11 19:26										
Iron		2.07	mg/L	0.030	101	70	130			
Magnesium		147	mg/L	1.0	98	70	130			
Manganese		2.06	mg/L	0.010	101	70	130			
Molybdenum		1.99	mg/L	0.10	98	70	130			
Nickel		2.01	mg/L	0.050	99	70	130			
Potassium		94.4	mg/L	1.0	90	70	130			
Silicon		7.09	mg/L	0.10		70	130			A
Sodium		210	mg/L	1.0	102	70	130			
Vanadium		2.10	mg/L	0.10	103	70	130			
Zinc		2.07	mg/L	0.010	99	70	130			
Sample ID: C11030022-001CMSD	17	Sample Matrix Spike Duplicate								
Run: ICP2-C_110307A 03/07/11 19:30										
Aluminum		1.99	mg/L	0.10	98	70	130	0.7	20	
Barium		2.04	mg/L	0.10	97	70	130	0.2	20	
Boron		2.46	mg/L	0.10	102	70	130	4.8	20	
Cadmium		2.02	mg/L	0.010	99	70	130	0.8	20	
Calcium		200	mg/L	1.0	101	70	130	0.3	20	
Chromium		2.01	mg/L	0.050	98	70	130	0.5	20	
Copper		2.01	mg/L	0.010	98	70	130	1.6	20	
Iron		2.04	mg/L	0.030	100	70	130	1.3	20	
Magnesium		150	mg/L	1.0	100	70	130	1.5	20	
Manganese		2.07	mg/L	0.010	101	70	130	0.3	20	
Molybdenum		2.02	mg/L	0.10	99	70	130	1.2	20	
Nickel		1.99	mg/L	0.050	98	70	130	1.1	20	
Potassium		95.9	mg/L	1.0	91	70	130	1.7	20	
Silicon		7.17	mg/L	0.10		70	130	1.1	20	A
Sodium		207	mg/L	1.0	100	70	130	1.4	20	
Vanadium		2.16	mg/L	0.10	106	70	130	3.0	20	
Zinc		2.09	mg/L	0.010	100	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R143556										
Sample ID: LRB	5	Method Blank								
										Run: ICPMS2-C_110309B
										03/09/11 11:32
Arsenic		8E-05	mg/L	6E-05						
Lead		ND	mg/L	3E-05						
Mercury		ND	mg/L	8E-05						
Selenium		ND	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Sample ID: LFB	5	Laboratory Fortified Blank								
										Run: ICPMS2-C_110309B
										03/09/11 11:39
Arsenic		0.0554	mg/L	0.0010	111	85	115			
Lead		0.0551	mg/L	0.0010	110	85	115			
Mercury		0.00546	mg/L	0.0010	109	85	115			
Selenium		0.0562	mg/L	0.0010	112	85	115			
Uranium		0.0554	mg/L	0.00030	111	85	115			
Sample ID: C11030107-003DMS4	5	Sample Matrix Spike								
										Run: ICPMS2-C_110309B
										03/10/11 03:47
Arsenic		0.0523	mg/L	0.0010	105	70	130			
Lead		0.0517	mg/L	0.050	103	70	130			
Mercury		0.00517	mg/L	0.0010	103	70	130			
Selenium		0.0524	mg/L	0.0010	104	70	130			
Uranium		0.0534	mg/L	0.00030	106	70	130			
Sample ID: C11030107-003DMSD	5	Sample Matrix Spike Duplicate								
										Run: ICPMS2-C_110309B
										03/10/11 03:53
Arsenic		0.0522	mg/L	0.0010	104	70	130	0.1	20	
Lead		0.0511	mg/L	0.050	102	70	130	1.1	20	
Mercury		0.00509	mg/L	0.0010	102	70	130	1.5	20	
Selenium		0.0525	mg/L	0.0010	104	70	130	0.2	20	
Uranium		0.0531	mg/L	0.00030	106	70	130	0.6	20	
Method: E200.8										
Batch: 29230										
Sample ID: MB-29230		Method Blank								
										Run: ICPMS4-C_110309B
										03/10/11 07:06
Uranium		ND	mg/L	7E-05						
Sample ID: LCS2-29230		Laboratory Control Sample								
										Run: ICPMS4-C_110309B
										03/10/11 07:11
Uranium		0.0992	mg/L	0.00030	99	85	115			
Sample ID: C11030099-002HMS		Sample Matrix Spike								
										Run: ICPMS4-C_110309B
										03/10/11 07:43
Uranium		0.0566	mg/L	0.00030	113	70	130			
Sample ID: C11030099-002HMSD		Sample Matrix Spike Duplicate								
										Run: ICPMS4-C_110309B
										03/10/11 07:47
Uranium		0.0565	mg/L	0.00030	113	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/28/11
Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R143337		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_110303A			03/03/11 13:10	
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		40.9	mg/L	1.0	102	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_110303A			03/03/11 13:26	
Chloride		ND	mg/L	0.06						
Sulfate		0.2	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC2-C_110303A			03/03/11 13:57	
Chloride		12.3	mg/L	1.0	98	90	110			
Sulfate		49.8	mg/L	1.0	99	90	110			
Sample ID: C11020738-001AMS	2	Sample Matrix Spike				Run: IC2-C_110303A			03/05/11 00:23	
Chloride		15.8	mg/L	1.0	101	80	120			
Sulfate		68.3	mg/L	1.0	99	80	120			
Sample ID: C11020738-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_110303A			03/05/11 00:38	
Chloride		16.0	mg/L	1.0	103	80	120	1.5	10	
Sulfate		69.1	mg/L	1.0	101	80	120	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										
Batch: R143280										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
										Run: TECHNICON_110303A
										03/03/11 12:25
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Nitrate+Nitrite as N		2.52	mg/L	0.10	101	90	110			
										Run: TECHNICON_110303A
										03/03/11 12:28
Sample ID: C11030065-002EMS		Sample Matrix Spike								
Nitrogen, Nitrate+Nitrite as N		2.13	mg/L	0.10	107	90	110			
										Run: TECHNICON_110303A
										03/03/11 15:18
Sample ID: C11030065-002EMSD		Sample Matrix Spike Duplicate								
Nitrogen, Nitrate+Nitrite as N		2.17	mg/L	0.10	109	90	110	1.9	10	
										Run: TECHNICON_110303A
										03/03/11 15:20
Method: E353.2										
Batch: R143696										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
										Run: TECHNICON_110316A
										03/16/11 12:09
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Nitrate+Nitrite as N		2.61	mg/L	0.10	104	90	110			
										Run: TECHNICON_110316A
										03/16/11 12:11
Sample ID: C11030105-004DMS		Sample Matrix Spike								
Nitrogen, Nitrate+Nitrite as N		2.05	mg/L	0.10	105	90	110			
										Run: TECHNICON_110316A
										03/16/11 12:26
Sample ID: C11030105-004DMSD		Sample Matrix Spike Duplicate								
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	107	90	110	1.9	10	
										Run: TECHNICON_110316A
										03/16/11 12:29

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5215		
Sample ID: C11030099-001DMS		Sample Matrix Spike				Run: G542M_110307A				03/14/11 17:02
Radium 226		14	pCi/L		98	70	130			
Sample ID: C11030099-001DMSD		Sample Matrix Spike Duplicate				Run: G542M_110307A				03/14/11 17:02
Radium 226		15	pCi/L		104	70	130	5.5	23.9	
Sample ID: MB-RA226-5215	3	Method Blank				Run: G542M_110307A				03/14/11 22:15
Radium 226		-0.06	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5215		Laboratory Control Sample				Run: G542M_110307A				03/14/11 22:15
Radium 226		6.2	pCi/L		99	85	115			
Method: E903.0								Batch: 29230		
Sample ID: C11030099-001HMS		Sample Matrix Spike				Run: TENNELEC-3_110318A				03/27/11 13:40
Radium 226		11	pCi/L		102	70	130			
Sample ID: C11030099-001HMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_110318A				03/27/11 13:40
Radium 226		11	pCi/L		105	70	130	2.4	23.9	
Sample ID: MB-29230	3	Method Blank				Run: TENNELEC-3_110318A				03/27/11 13:40
Radium 226		0.3	pCi/L							
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-29230		Laboratory Control Sample				Run: TENNELEC-3_110318A				03/27/11 13:40
Radium 226		12	pCi/L		99	85	115			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0 Batch: 29230										
Sample ID: C11030099-002HMS		Sample Matrix Spike								
Thorium 230		8.5	pCi/L	98		70	130			03/14/11 14:50
Sample ID: C11030099-002HMSD		Sample Matrix Spike Duplicate								
Thorium 230		9.4	pCi/L	109		70	130	10	46.4	03/14/11 14:50
Sample ID: LCS-29230		Laboratory Control Sample								
Thorium 230		13	pCi/L	130		70	130			03/14/11 14:50
Sample ID: MB-29230	3	Method Blank								
Thorium 230		0.1	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.3	pCi/L							
Method: E908.0 Batch: RA-TH-ISO-1344										
Sample ID: LCS-RA-TH-ISO-1344		Laboratory Control Sample								
Thorium 230		5.3	pCi/L	101		70	130			03/17/11 08:52
Sample ID: C11030099-001DMS		Sample Matrix Spike								
Thorium 230		13	pCi/L	104		70	130			03/17/11 08:52
Sample ID: C11030099-001DMSD		Sample Matrix Spike Duplicate								
Thorium 230		13	pCi/L	102		70	130	1.4	36.4	03/17/11 08:52
Sample ID: MB-RA-TH-ISO-1344	3	Method Blank								
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										
Batch: T_13526										
Sample ID: C11030099-001HMSD		Sample Matrix Spike Duplicate								
Lead 210		94	pCi/L		96	70	130	10	17	03/27/11 13:49
Sample ID: C11030099-001HMS		Sample Matrix Spike								
Lead 210		100	pCi/L		108	70	130			03/27/11 11:38
Sample ID: LCS-13526_29230		Laboratory Control Sample								
Lead 210		460	pCi/L		125	70	130			03/27/11 07:15
Sample ID: MB-13526_29230	3	Method Blank								
Lead 210		10	pCi/L							03/27/11 05:03
Lead 210 precision (±)		8	pCi/L							U
Lead 210 MDC		10	pCi/L							
Method: E909.0										
Batch: T_PB-210-0095										
Sample ID: T11030080-001EMSD		Sample Matrix Spike Duplicate								
Lead 210		48	pCi/L		89	70	130	2.7	16.2	04/23/11 09:46
Sample ID: T11030080-001EMS		Sample Matrix Spike								
Lead 210		49	pCi/L		91	70	130			04/23/11 07:35
Sample ID: LCS-PB-210-0095		Laboratory Control Sample								
Lead 210		78	pCi/L		109	70	130			04/23/11 03:12
Sample ID: MB-PB-210-0095	3	Method Blank								
Lead 210		-0.4	pCi/L							04/23/11 01:00
Lead 210 precision (±)		1	pCi/L							U
Lead 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/28/11

Project: Marsland Baseline Samples

Work Order: C11030099

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0348		
Sample ID: C11030099-002FMS		Sample Matrix Spike				Run: EGG-ORTEC_110310A			03/11/11 13:06	
Polonium 210		13	pCi/L	100		70	130			
Sample ID: C11030099-002FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110310A			03/11/11 13:06	
Polonium 210		15	pCi/L	119		70	130	17	76	
Sample ID: MB-PO210-0348	3	Method Blank				Run: EGG-ORTEC_110310A			03/11/11 13:06	
Polonium 210		0.07	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.6	pCi/L							
Sample ID: LCS-PO210-0348		Laboratory Control Sample				Run: EGG-ORTEC_110310A			03/11/11 13:06	
Polonium 210		7.5	pCi/L	115		70	130			
Method: E912.0								Batch: 29230		
Sample ID: C11030099-002HMS		Sample Matrix Spike				Run: EGG-ORTEC_110314B			03/16/11 13:29	
Polonium 210		6.3	pCi/L	115		70	130			
Sample ID: C11030099-002HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110314B			03/16/11 13:29	
Polonium 210		5.5	pCi/L	101		70	130	13	76.4	
Sample ID: LCS-29230		Laboratory Control Sample				Run: EGG-ORTEC_110314B			03/16/11 13:29	
Polonium 210		30	pCi/L	100		70	130			
Sample ID: MB-29230	3	Method Blank				Run: EGG-ORTEC_110314B			03/16/11 13:29	
Polonium 210		ND	pCi/L							U
Polonium 210 precision (±)		1.0	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030099

Login completed by: Corinne Wagner

Date Received: 3/2/2011

Reviewed by: BL2000\tedwards

Received by: em

Reviewed Date: 3/3/2011

Carrier Next Day Air Saver
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 5.4°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.		Project Name: Marsland Baseline Samples		Sample Origin State: _____		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 169 Crawford, NE 69339		Contact Name: Larry Teahon		Phone/Fax: 308-665-2341		Sampler: (Please Print) Brooke Bass Rhonda Pelton	
Invoice Address: P.O. Box 169 Crawford, NE 69339		Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114		Purchase Order: 1125		Quote/Bottle Order: _____	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WTP State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED (TAT) R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L. Please report 4/5/11 Please report 4/5/11	
Number of Containers Sample Type: AWSVB Air Water Solids Vegetation Bioassay Other		MATRIX HNO3-F, Metals RAW-F, Common Ions RAW-UF, Alkalinity H2SO4-F, NO2, NO3, NH4 Raw-UF, Ra226, Po210 dis, sus Raw-UF, Pb210 dis and sus Raw-UF, Th230, U-nat dis and sus		Normal Turnaround (TAT)		Shipped by: NNA SQUAR Container ID(s): 12646 12637 Receipt Temp 521 °C On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No Custody Seal Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		LABORATORY USE ONLY _____ _____ _____ _____ _____ _____ _____ _____ _____	
1 E. Driller's Well		2/25/11		11:15		Received by (print): Rhonda Pelton Signature: _____ Date/Time: 3-11-11 11:15	
2 W. Driller's Well		2/25/11		_____		Received by (print): _____ Signature: _____ Date/Time: _____	
3 _____		_____		_____		Received by Laboratory: _____ Signature: _____ Date/Time: 3/9/11 9:30	
4 _____		_____		_____		_____	
5 _____		_____		_____		_____	
6 _____		_____		_____		_____	
7 _____		_____		_____		_____	
8 _____		_____		_____		_____	
9 _____		_____		_____		_____	
10 _____		_____		_____		_____	
Custody Record MUST be Signed		Sample Disposal: Return to Client: <u>No</u>		Lab Disposal: YES		Signature: _____ Date/Time:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.enerviah.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 2/25/11

ANALYST: MO

STANDARD CURVE DATA

	<u>BL</u>		<u>.01</u>	<u>.05</u>	<u>.1</u>		
Abs	<u>-.02</u>		<u>.033</u>	<u>.174</u>	<u>.348</u>		
Abs							

SAMPLE #	VOLUME	Df	Abs	
1 <u>Marsland DP NW</u>	<u>10ml</u>	<u>1</u>	<u>-.001</u>	<u>21</u>
2 <u>Marsland DP SE</u>	<u>10ml</u>	<u>1</u>	<u>-.001</u>	<u>21</u>
3 <u>Dup DP SE</u>	<u>10ml</u>	<u>1</u>	<u>-.001</u>	<u>21</u>
4				
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

April 18, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030211 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland G-8 Samples

Energy Laboratories, Inc. Casper WY received the following 4 samples for Crow Butte Resources on 3/8/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030211-001	BOW 2010-2	03/04/11 00:00	03/08/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030211-002	BOW 2010-3	03/04/11 00:00	03/08/11	Aqueous	Same As Above
C11030211-003	BOW 2010-5	03/04/11 00:00	03/08/11	Aqueous	Same As Above
C11030211-004	BOW 2010-6	03/04/11 00:00	03/08/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland G-8 Samples
Sample Delivery Group: C11030211

Report Date: 04/18/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-001
Client Sample ID: BOW 2010-2

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	187	mg/L		1		A2320 B	03/08/11 18:54 / jba
Carbonate as CO3	38	mg/L		1		A2320 B	03/08/11 18:54 / jba
Bicarbonate as HCO3	152	mg/L		1		A2320 B	03/08/11 18:54 / jba
Calcium	7	mg/L		1		E200.7	03/11/11 16:56 / cp
Chloride	27	mg/L		1		E300.0	03/10/11 11:51 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/11/11 11:31 / jba
Magnesium	ND	mg/L		1		E200.7	03/11/11 16:56 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/08/11 15:03 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/10/11 14:05 / dc
Potassium	11	mg/L		1		E200.7	03/11/11 16:56 / cp
Silica	85.9	mg/L		0.2		E200.7	03/11/11 16:56 / cp
Sodium	107	mg/L		1		E200.7	03/11/11 16:56 / cp
Sulfate	37	mg/L	D	2		E300.0	03/10/11 11:51 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	518	umhos/cm		1		A2510 B	03/08/11 15:16 / lr
pH	9.32	s.u.		0.01		A4500-H B	03/08/11 15:16 / lr
Solids, Total Dissolved TDS @ 180 C	377	mg/L		10		A2540 C	03/09/11 12:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/11/11 16:56 / cp
Arsenic	0.005	mg/L		0.001		E200.8	03/16/11 17:55 / sml
Barium	ND	mg/L		0.1		E200.7	03/11/11 16:56 / cp
Boron	0.1	mg/L		0.1		E200.7	03/11/11 16:56 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/11/11 16:56 / cp
Chromium	ND	mg/L		0.05		E200.7	03/11/11 16:56 / cp
Copper	ND	mg/L		0.01		E200.7	03/11/11 16:56 / cp
Iron	ND	mg/L		0.03		E200.7	03/11/11 16:56 / cp
Lead	ND	mg/L		0.001		E200.8	03/16/11 17:55 / sml
Manganese	ND	mg/L		0.01		E200.7	03/11/11 16:56 / cp
Mercury	ND	mg/L		0.001		E200.8	03/16/11 17:55 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/11/11 16:56 / cp
Nickel	ND	mg/L		0.05		E200.7	03/11/11 16:56 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/16/11 17:55 / sml
Uranium	0.0031	mg/L		0.0003		E200.8	03/16/11 17:55 / sml
Uranium, Activity	2.1E-09	uCi/mL		2.0E-10		E200.8	03/16/11 17:55 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/11/11 16:56 / cp
Zinc	0.03	mg/L		0.01		E200.7	03/11/11 16:56 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/17/11 03:14 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/17/11 03:14 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-001
Client Sample ID: BOW 2010-2

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	03/25/11 05:44 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 05:44 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 05:44 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/16/11 13:28 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/16/11 13:28 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/16/11 13:28 / ep
Radium 226	0.31	pCi/L		0.15		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	0.14	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/22/11 09:00 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	03/22/11 09:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/22/11 09:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.3	pCi/L	U	1.3		E909.0	03/27/11 22:35 / eli-cs
Lead 210 precision (±)	0.8	pCi/L				E909.0	03/27/11 22:35 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	03/27/11 22:35 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/17/11 13:08 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/17/11 13:08 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/17/11 13:08 / ep
Radium 226	<0.14	pCi/L	U	0.14		E903.0	03/21/11 15:15 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/21/11 15:15 / dmf
Radium 226 MDC	0.14	pCi/L				E903.0	03/21/11 15:15 / dmf
Thorium 230	<0.06	pCi/L	U	0.06		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.06	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0154	%				Calculation	03/16/11 15:39 / kbh
Anions	5.30	meq/L				Calculation	03/16/11 15:39 / kbh
Cations	5.30	meq/L				Calculation	03/16/11 15:39 / kbh
Solids, Total Dissolved Calculated	410	mg/L				Calculation	03/16/11 15:39 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	03/16/11 15:39 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-002
Client Sample ID: BOW 2010-3

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	177	mg/L		1		A2320 B	03/08/11 19:03 / jba
Carbonate as CO ₃	31	mg/L		1		A2320 B	03/08/11 19:03 / jba
Bicarbonate as HCO ₃	154	mg/L		1		A2320 B	03/08/11 19:03 / jba
Calcium	7	mg/L		1		E200.7	03/22/11 15:32 / cp
Chloride	38	mg/L		1		E300.0	03/10/11 12:07 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/11/11 11:34 / jba
Magnesium	ND	mg/L		1		E200.7	03/22/11 15:32 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/08/11 15:27 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/10/11 14:15 / dc
Potassium	12	mg/L		1		E200.7	03/22/11 15:32 / cp
Silica	79.3	mg/L		0.2		E200.7	03/11/11 17:04 / cp
Sodium	126	mg/L		1		E200.7	03/22/11 15:32 / cp
Sulfate	60	mg/L	D	2		E300.0	03/10/11 12:07 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	584	umhos/cm		1		A2510 B	03/08/11 15:18 / lr
pH	9.22	s.u.		0.01		A4500-H B	03/08/11 15:18 / lr
Solids, Total Dissolved TDS @ 180 C	411	mg/L		10		A2540 C	03/09/11 12:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/11/11 17:04 / cp
Arsenic	0.010	mg/L		0.001		E200.8	03/16/11 18:02 / sml
Barium	ND	mg/L		0.1		E200.7	03/11/11 17:04 / cp
Boron	0.1	mg/L		0.1		E200.7	03/11/11 17:04 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/11/11 17:04 / cp
Chromium	ND	mg/L		0.05		E200.7	03/11/11 17:04 / cp
Copper	ND	mg/L		0.01		E200.7	03/11/11 17:04 / cp
Iron	ND	mg/L		0.03		E200.7	03/11/11 17:04 / cp
Lead	ND	mg/L		0.001		E200.8	03/16/11 18:02 / sml
Manganese	ND	mg/L		0.01		E200.7	03/11/11 17:04 / cp
Mercury	ND	mg/L		0.001		E200.8	03/16/11 18:02 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/11/11 17:04 / cp
Nickel	ND	mg/L		0.05		E200.7	03/11/11 17:04 / cp
Selenium	0.006	mg/L		0.001		E200.8	03/16/11 18:02 / sml
Uranium	0.0041	mg/L		0.0003		E200.8	03/16/11 18:02 / sml
Uranium, Activity	2.8E-09	uCi/mL		2.0E-10		E200.8	03/16/11 18:02 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/11/11 17:04 / cp
Zinc	0.05	mg/L		0.01		E200.7	03/11/11 17:04 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/17/11 03:18 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/17/11 03:18 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-002
Client Sample ID: BOW 2010-3

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	03/25/11 07:56 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 07:56 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 07:56 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/16/11 13:28 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/16/11 13:28 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/16/11 13:28 / ep
Radium 226	0.38	pCi/L		0.15		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/22/11 09:00 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/22/11 09:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/22/11 09:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	03/28/11 05:10 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	03/28/11 05:10 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/28/11 05:10 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/17/11 13:07 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/17/11 13:07 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/17/11 13:07 / ep
Radium 226	<0.14	pCi/L	U	0.14		E903.0	03/21/11 15:15 / dmf
Radium 226 precision (±)	0.09	pCi/L				E903.0	03/21/11 15:15 / dmf
Radium 226 MDC	0.14	pCi/L				E903.0	03/21/11 15:15 / dmf
Thorium 230	<0.08	pCi/L	U	0.08		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.08	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.57	%				Calculation	03/29/11 07:47 / kbh
Anions	5.95	meq/L				Calculation	03/29/11 07:47 / kbh
Cations	6.14	meq/L				Calculation	03/29/11 07:47 / kbh
Solids, Total Dissolved Calculated	454	mg/L				Calculation	03/29/11 07:47 / kbh
TDS Balance (0.80 - 1.20)	0.910					Calculation	03/29/11 07:47 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-003
Client Sample ID: BOW 2010-5

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	151	mg/L		1		A2320 B	03/08/11 19:11 / jba
Carbonate as CO3	5	mg/L		1		A2320 B	03/08/11 19:11 / jba
Bicarbonate as HCO3	174	mg/L		1		A2320 B	03/08/11 19:11 / jba
Calcium	29	mg/L		1		E200.7	03/11/11 17:08 / cp
Chloride	7	mg/L		1		E300.0	03/10/11 12:53 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/11/11 11:36 / jba
Magnesium	7	mg/L		1		E200.7	03/11/11 17:08 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/08/11 15:29 / dc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	03/10/11 14:18 / dc
Potassium	4	mg/L		1		E200.7	03/11/11 17:08 / cp
Silica	72.1	mg/L		0.2		E200.7	03/11/11 17:08 / cp
Sodium	26	mg/L		1		E200.7	03/11/11 17:08 / cp
Sulfate	9	mg/L		1		E300.0	03/10/11 12:53 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	313	umhos/cm		1		A2510 B	03/08/11 15:21 / lr
pH	8.23	s.u.		0.01		A4500-H B	03/08/11 15:21 / lr
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	03/09/11 12:24 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/11/11 17:08 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/16/11 18:09 / sml
Barium	0.1	mg/L		0.1		E200.7	03/11/11 17:08 / cp
Boron	ND	mg/L		0.1		E200.7	03/11/11 17:08 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/11/11 17:08 / cp
Chromium	ND	mg/L		0.05		E200.7	03/11/11 17:08 / cp
Copper	ND	mg/L		0.01		E200.7	03/11/11 17:08 / cp
Iron	ND	mg/L		0.03		E200.7	03/11/11 17:08 / cp
Lead	ND	mg/L		0.001		E200.8	03/16/11 18:09 / sml
Manganese	ND	mg/L		0.01		E200.7	03/11/11 17:08 / cp
Mercury	ND	mg/L		0.001		E200.8	03/16/11 18:09 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/11/11 17:08 / cp
Nickel	ND	mg/L		0.05		E200.7	03/11/11 17:08 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/16/11 18:09 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	03/16/11 18:09 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	03/16/11 18:09 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/11/11 17:08 / cp
Zinc	0.06	mg/L		0.01		E200.7	03/11/11 17:08 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/17/11 03:39 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/17/11 03:39 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-003
Client Sample ID: BOW 2010-5

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	03/25/11 10:07 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 10:07 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 10:07 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/16/11 13:28 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/16/11 13:28 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/16/11 13:28 / ep
Radium 226	0.36	pCi/L		0.15		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/22/11 09:00 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/22/11 09:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/22/11 09:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	03/28/11 07:21 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	03/28/11 07:21 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/28/11 07:21 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/17/11 13:08 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/17/11 13:08 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/17/11 13:08 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/21/11 15:15 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/21/11 15:15 / dmf
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 15:15 / dmf
Thorium 230	<0.07	pCi/L	U	0.07		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.07	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.95	%				Calculation	03/16/11 15:41 / kbh
Anions	3.51	meq/L				Calculation	03/16/11 15:41 / kbh
Cations	3.24	meq/L				Calculation	03/16/11 15:41 / kbh
Solids, Total Dissolved Calculated	269	mg/L				Calculation	03/16/11 15:41 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	03/16/11 15:41 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-004
Client Sample ID: BOW 2010-6

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	144	mg/L		1		A2320 B	03/08/11 19:19 / jba
Carbonate as CO ₃	6	mg/L		1		A2320 B	03/08/11 19:19 / jba
Bicarbonate as HCO ₃	165	mg/L		1		A2320 B	03/08/11 19:19 / jba
Calcium	31	mg/L		1		E200.7	03/11/11 17:12 / cp
Chloride	2	mg/L		1		E300.0	03/10/11 13:39 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/11/11 11:39 / jba
Magnesium	7	mg/L		1		E200.7	03/11/11 17:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/08/11 15:31 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/10/11 14:20 / dc
Potassium	4	mg/L		1		E200.7	03/11/11 17:12 / cp
Silica	67.4	mg/L		0.2		E200.7	03/11/11 17:12 / cp
Sodium	24	mg/L		1		E200.7	03/11/11 17:12 / cp
Sulfate	2	mg/L		1		E300.0	03/10/11 13:39 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	320	umhos/cm		1		A2510 B	03/08/11 15:23 / lr
pH	8.31	s.u.		0.01		A4500-H B	03/08/11 15:23 / lr
Solids, Total Dissolved TDS @ 180 C	216	mg/L		10		A2540 C	03/09/11 12:24 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/11/11 17:12 / cp
Arsenic	0.005	mg/L		0.001		E200.8	03/16/11 18:16 / sml
Barium	ND	mg/L		0.1		E200.7	03/11/11 17:12 / cp
Boron	ND	mg/L		0.1		E200.7	03/11/11 17:12 / cp
Cadmium	ND	mg/L		0.005		E200.7	03/11/11 17:12 / cp
Chromium	ND	mg/L		0.05		E200.7	03/11/11 17:12 / cp
Copper	ND	mg/L		0.01		E200.7	03/11/11 17:12 / cp
Iron	ND	mg/L		0.03		E200.7	03/11/11 17:12 / cp
Lead	ND	mg/L		0.001		E200.8	03/16/11 18:16 / sml
Manganese	ND	mg/L		0.01		E200.7	03/11/11 17:12 / cp
Mercury	ND	mg/L		0.001		E200.8	03/16/11 18:16 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/11/11 17:12 / cp
Nickel	ND	mg/L		0.05		E200.7	03/11/11 17:12 / cp
Selenium	0.003	mg/L		0.001		E200.8	03/16/11 18:16 / sml
Uranium	0.0052	mg/L		0.0003		E200.8	03/16/11 18:16 / sml
Uranium, Activity	3.6E-09	uCi/mL		2.0E-10		E200.8	03/16/11 18:16 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/11/11 17:12 / cp
Zinc	0.03	mg/L		0.01		E200.7	03/11/11 17:12 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/17/11 03:43 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/17/11 03:43 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030211-004
Client Sample ID: BOW 2010-6

Report Date: 04/18/11
Collection Date: 03/04/11
Date Received: 03/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	03/25/11 12:19 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 12:19 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 12:19 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	03/16/11 13:28 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/16/11 13:28 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	03/16/11 13:28 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/22/11 09:00 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/22/11 09:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/22/11 09:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	03/28/11 09:33 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	03/28/11 09:33 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/28/11 09:33 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/17/11 13:08 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/17/11 13:08 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/17/11 13:08 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/21/11 15:15 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/21/11 15:15 / dmf
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 15:15 / dmf
Thorium 230	<0.05	pCi/L	U	0.05		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.60	%				Calculation	03/16/11 15:41 / kbh
Anions	3.10	meq/L				Calculation	03/16/11 15:41 / kbh
Cations	3.27	meq/L				Calculation	03/16/11 15:41 / kbh
Solids, Total Dissolved Calculated	248	mg/L				Calculation	03/16/11 15:41 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	03/16/11 15:41 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: R143427		
Sample ID: MBLK		3 Method Blank			Run: MANTECH_110308A			03/08/11 16:36		
Alkalinity, Total as CaCO3		ND	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		1.12	mg/L	1.0						
Sample ID: LCS		Laboratory Control Sample			Run: MANTECH_110308A			03/08/11 16:51		
Alkalinity, Total as CaCO3		209	mg/L	5.0	104	90	110			
Sample ID: C11030160-009AMS		Sample Matrix Spike			Run: MANTECH_110308A			03/08/11 17:15		
Alkalinity, Total as CaCO3		233	mg/L	5.0	103	80	120			
Sample ID: C11030211-004BDUP		Sample Duplicate			Run: MANTECH_110308A			03/08/11 19:27		
Alkalinity, Total as CaCO3		144	mg/L	5.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110308A		
Sample ID: ICV2_110308_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			03/08/11 14:59
Method: A2510 B								Batch: 110308_1_PH-W_555A-2		
Sample ID: MBLK1_110308_1	Method Blank									
Conductivity @ 25 C		ND	umhos/cm	1.0						Run: ORION555A-2_110308A 03/08/11 14:55
Sample ID: C11030211-002BDUP	Sample Duplicate									
Conductivity @ 25 C		585	umhos/cm	1.0				0.2	10	Run: ORION555A-2_110308A 03/08/11 15:19
Sample ID: C11030211-004BDUP	Sample Duplicate									
Conductivity @ 25 C		320	umhos/cm	1.0				0.0	10	Run: ORION555A-2_110308A 03/08/11 15:25

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110309_1_SLDS-TDS-W		
Sample ID: MBLK1_110309		Method Blank					Run: BAL-1_110309A			03/09/11 12:22
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_110309		Laboratory Control Sample					Run: BAL-1_110309A			03/09/11 12:22
Solids, Total Dissolved TDS @ 180 C		988	mg/L	10	99	90	110			
Sample ID: C11030211-001ADUP		Sample Duplicate					Run: BAL-1_110309A			03/09/11 12:23
Solids, Total Dissolved TDS @ 180 C		378	mg/L	10				0.3	10	
Sample ID: C11030231-001AMS		Sample Matrix Spike					Run: BAL-1_110309A			03/09/11 12:24
Solids, Total Dissolved TDS @ 180 C		4250	mg/L	10	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R143532
Sample ID: MBLK Fluoride		Method Blank ND	mg/L	0.10						Run: MANTECH_110311A 03/11/11 10:25
Sample ID: LCS Fluoride		Laboratory Control Sample 1.02	mg/L	0.10	100	90	110			Run: MANTECH_110311A 03/11/11 10:27
Sample ID: C11030209-001CMS Fluoride		Sample Matrix Spike 1.04	mg/L	0.10	100	80	120			Run: MANTECH_110311A 03/11/11 11:26
Sample ID: C11030209-001CMSD Fluoride		Sample Matrix Spike Duplicate 1.04	mg/L	0.10	100	80	120	0.0	10	Run: MANTECH_110311A 03/11/11 11:28

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110308A		
Sample ID: ICV1_110308_1	Initial Calibration Verification Standard									03/08/11 14:57
pH		6.90	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110308_1_PH-W_555A-2		
Sample ID: C11030211-002BDUP	Sample Duplicate									Run: ORION555A-2_110308A 03/08/11 15:19
pH		9.22	s.u.	0.010				0.0	3	
Sample ID: C11030211-004BDUP	Sample Duplicate									Run: ORION555A-2_110308A 03/08/11 15:25
pH		8.30	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-NH3 G										Batch: R143422	
Sample ID: MBLK-6		Method Blank								Run: TECHNICON_110308A	03/08/11 12:01
Nitrogen, Ammonia as N		ND	mg/L	0.050							
Sample ID: LCS-7		Laboratory Control Sample								Run: TECHNICON_110308A	03/08/11 12:03
Nitrogen, Ammonia as N		1.92	mg/L	0.050	96	90	110				
Sample ID: C11030089-001AMS		Sample Matrix Spike								Run: TECHNICON_110308A	03/08/11 15:21
Nitrogen, Ammonia as N		1.86	mg/L	0.050	93	80	120				
Sample ID: C11030089-001AMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110308A	03/08/11 15:23
Nitrogen, Ammonia as N		1.89	mg/L	0.050	95	80	120	1.5	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R143542										
Sample ID: MB-110311A	17	Method Blank								
										03/11/11 15:47
Aluminum		ND	mg/L	0.10						
Barium		ND	mg/L	0.10						
Boron		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Calcium		ND	mg/L	1.0						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	1.0						
Manganese		ND	mg/L	0.010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Potassium		ND	mg/L	1.0						
Silicon		ND	mg/L	0.10						
Sodium		ND	mg/L	1.0						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB-110311A										
	17	Laboratory Fortified Blank								
										03/11/11 15:51
Aluminum		0.932	mg/L	0.10	93	85	115			
Barium		0.931	mg/L	0.10	93	85	115			
Boron		0.950	mg/L	0.10	94	85	115			
Cadmium		0.941	mg/L	0.010	94	85	115			
Calcium		47.3	mg/L	0.50	95	85	115			
Chromium		0.960	mg/L	0.050	96	85	115			
Copper		0.941	mg/L	0.010	94	85	115			
Iron		0.963	mg/L	0.030	96	85	115			
Magnesium		48.2	mg/L	0.50	96	85	115			
Manganese		0.965	mg/L	0.010	96	85	115			
Molybdenum		0.958	mg/L	0.10	96	85	115			
Nickel		0.961	mg/L	0.050	96	85	115			
Potassium		46.2	mg/L	0.50	92	85	115			
Silicon		0.428	mg/L	0.10	91	85	115			
Sodium		46.4	mg/L	0.50	93	85	115			
Vanadium		0.944	mg/L	0.10	94	85	115			
Zinc		0.958	mg/L	0.010	96	85	115			
Sample ID: C11030134-001CMS2										
	17	Sample Matrix Spike								
										03/11/11 16:48
Aluminum		1.92	mg/L	0.10	94	70	130			
Barium		1.97	mg/L	0.10	93	70	130			
Boron		1.93	mg/L	0.10	93	70	130			
Cadmium		1.91	mg/L	0.010	94	70	130			
Calcium		126	mg/L	1.0	95	70	130			
Chromium		1.91	mg/L	0.050	94	70	130			
Copper		1.93	mg/L	0.010	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R143542										
Sample ID: C11030134-001CMS2	17	Sample Matrix Spike					Run: ICP2-C_110311A			03/11/11 16:48
Iron		2.03	mg/L	0.030	99	70	130			
Magnesium		106	mg/L	1.0	97	70	130			
Manganese		1.94	mg/L	0.010	95	70	130			
Molybdenum		1.90	mg/L	0.10	93	70	130			
Nickel		1.94	mg/L	0.050	95	70	130			
Potassium		90.7	mg/L	1.0	87	70	130			
Silicon		7.19	mg/L	0.10		70	130			A
Sodium		113	mg/L	1.0	97	70	130			
Vanadium		2.01	mg/L	0.10	99	70	130			
Zinc		1.95	mg/L	0.010	95	70	130			
Sample ID: C11030134-001CMSD	17	Sample Matrix Spike Duplicate					Run: ICP2-C_110311A			03/11/11 16:52
Aluminum		1.90	mg/L	0.10	93	70	130	1.2	20	
Barium		1.97	mg/L	0.10	93	70	130	0.1	20	
Boron		1.96	mg/L	0.10	94	70	130	1.2	20	
Cadmium		1.89	mg/L	0.010	93	70	130	1.1	20	
Calcium		128	mg/L	1.0	97	70	130	1.1	20	
Chromium		1.91	mg/L	0.050	94	70	130	0.0	20	
Copper		1.91	mg/L	0.010	93	70	130	1.1	20	
Iron		2.02	mg/L	0.030	99	70	130	0.2	20	
Magnesium		106	mg/L	1.0	96	70	130	0.4	20	
Manganese		1.93	mg/L	0.010	95	70	130	0.3	20	
Molybdenum		1.91	mg/L	0.10	94	70	130	0.5	20	
Nickel		1.95	mg/L	0.050	96	70	130	0.7	20	
Potassium		89.6	mg/L	1.0	86	70	130	1.2	20	
Silicon		7.30	mg/L	0.10		70	130	1.5	20	A
Sodium		113	mg/L	1.0	97	70	130	0.4	20	
Vanadium		2.00	mg/L	0.10	98	70	130	0.8	20	
Zinc		1.94	mg/L	0.010	94	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R143980										
Sample ID: MB-110322A	4	Method Blank								
Run: ICP2-C_110322A										
03/22/11 11:43										
Calcium		ND	mg/L	1.0						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Sodium		ND	mg/L	1.0						
Sample ID: LFB-110322A	4	Laboratory Fortified Blank								
Run: ICP2-C_110322A										
03/22/11 11:47										
Calcium		47.5	mg/L	0.50	95	85	115			
Magnesium		47.2	mg/L	0.50	94	85	115			
Potassium		43.4	mg/L	0.50	87	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Sample ID: C11030147-001DMS2	4	Sample Matrix Spike								
Run: ICP2-C_110322A										
03/22/11 15:16										
Calcium		395	mg/L	1.1	97	70	130			
Magnesium		250	mg/L	1.0	98	70	130			
Potassium		277	mg/L	1.0	83	70	130			
Sodium		729	mg/L	1.4	106	70	130			
Sample ID: C11030147-001DMSD	4	Sample Matrix Spike Duplicate								
Run: ICP2-C_110322A										
03/22/11 15:20										
Calcium		400	mg/L	1.1	99	70	130	1.3	20	
Magnesium		257	mg/L	1.0	101	70	130	2.7	20	
Potassium		278	mg/L	1.0	84	70	130	0.4	20	
Sodium		722	mg/L	1.4	103	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: 29258										
Sample ID: MB-29258		Method Blank								
Uranium		ND	mg/L	0.00030						Run: ICPMS2-C_110316A 03/17/11 03:01
Sample ID: LCS2-29258		Laboratory Control Sample								
Uranium		0.0969	mg/L	0.00030	97	85	115			Run: ICPMS2-C_110316A 03/17/11 03:05
Sample ID: C11030365-008AMS		Sample Matrix Spike								
Uranium		0.0561	pCi/Filter	0.00030	112	70	130			Run: ICPMS2-C_110316A 03/17/11 04:49
Sample ID: C11030365-008AMSD		Sample Matrix Spike Duplicate								
Uranium		0.0546	pCi/Filter	0.00030	109	70	130	2.8	20	Run: ICPMS2-C_110316A 03/17/11 04:53
Method: E200.8 Batch: R143657A										
Sample ID: LRB	5	Method Blank								
Arsenic		ND	mg/L	0.0010						Run: ICPMS4-C_110315A 03/15/11 11:57
Lead		ND	mg/L	0.0010						
Mercury		ND	mg/L	0.0010						
Selenium		ND	mg/L	0.0010						
Uranium		ND	mg/L	0.00030						
Sample ID: LFB	5	Laboratory Fortified Blank								
Arsenic		0.0520	mg/L	0.0010	104	85	115			Run: ICPMS4-C_110315A 03/15/11 12:03
Lead		0.0528	mg/L	0.0010	106	85	115			
Mercury		0.00529	mg/L	0.0010	106	85	115			
Selenium		0.0545	mg/L	0.0010	109	85	115			
Uranium		0.0526	mg/L	0.00030	105	85	115			
Sample ID: C11030280-005CMS4	5	Sample Matrix Spike								
Arsenic		0.0549	mg/L	0.0010	110	70	130			Run: ICPMS4-C_110315A 03/16/11 18:29
Lead		0.0518	mg/L	0.050	104	70	130			
Mercury		0.00597	mg/L	0.0010	118	70	130			
Selenium		0.0548	mg/L	0.0010	106	70	130			
Uranium		0.0689	mg/L	0.00030	102	70	130			
Sample ID: C11030280-005CMSD	5	Sample Matrix Spike Duplicate								
Arsenic		0.0562	mg/L	0.0010	112	70	130	2.4	20	Run: ICPMS4-C_110315A 03/16/11 18:36
Lead		0.0529	mg/L	0.050	106	70	130	2.1	20	
Mercury		0.00590	mg/L	0.0010	117	70	130	1.1	20	
Selenium		0.0554	mg/L	0.0010	108	70	130	1.2	20	
Uranium		0.0696	mg/L	0.00030	103	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R143503		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_110309A			03/09/11 17:21	
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		40.7	mg/L	1.0	101	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_110309A			03/09/11 17:36	
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	1.0						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC2-C_110309A			03/09/11 18:07	
Chloride		12.0	mg/L	1.0	96	90	110			
Sulfate		49.0	mg/L	1.0	98	90	110			
Sample ID: C11030211-003BMS	2	Sample Matrix Spike				Run: IC2-C_110309A			03/10/11 13:08	
Chloride		17.3	mg/L	1.0	101	80	120			
Sulfate		47.8	mg/L	1.0	99	80	120			
Sample ID: C11030211-003BMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_110309A			03/10/11 13:24	
Chloride		17.6	mg/L	1.0	104	80	120	1.5	10	
Sulfate		48.9	mg/L	1.0	102	80	120	2.2	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R143504
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.10						Run: TECHNICON_110310A 03/10/11 11:55
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.61	mg/L	0.10	105	90	110			Run: TECHNICON_110310A 03/10/11 11:58
Sample ID: C11030209-001FMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.55	mg/L	0.10	108	90	110			Run: TECHNICON_110310A 03/10/11 14:08
Sample ID: C11030209-001FMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.56	mg/L	0.10	109	90	110	0.4	10	Run: TECHNICON_110310A 03/10/11 14:10

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: 29258										
Sample ID: C11030211-001HMS		Sample Matrix Spike					Run: G542M_110315A			03/21/11 15:15
Radium 226		11	pCi/L		107	70	130			
Sample ID: C11030211-001HMSD		Sample Matrix Spike Duplicate					Run: G542M_110315A			03/21/11 15:15
Radium 226		10	pCi/L		97	70	130	6.0	24.7	
Sample ID: LCS-29258		Laboratory Control Sample					Run: G542M_110315A			03/21/11 16:54
Radium 226		11.4	pCi/Filter		95	70	130			
Sample ID: MB-29258	3	Method Blank					Run: G542M_110315A			03/21/11 16:54
Radium 226		ND	pCi/Filter	0.10						U
Radium 226 precision (±)		0.169	pCi/Filter							
Radium 226 MDC		0.320	pCi/Filter							
Method: E903.0 Batch: RA226-5235										
Sample ID: C11030211-003DMS		Sample Matrix Spike					Run: TENNELEC-3_110315B			03/21/11 17:17
Radium 226		14	pCi/L		109	70	130			
Sample ID: C11030211-003DMSD		Sample Matrix Spike Duplicate					Run: TENNELEC-3_110315B			03/21/11 17:17
Radium 226		14	pCi/L		111	70	130	1.7	25.1	
Sample ID: LCS-RA226-5235		Laboratory Control Sample					Run: TENNELEC-3_110315B			03/21/11 20:55
Radium 226		6.2	pCi/L		95	85	115			
Sample ID: MB-RA226-5235	3	Method Blank					Run: TENNELEC-3_110315B			03/21/11 20:55
Radium 226		0.17	pCi/L	0.10						
Radium 226 precision (±)		0.11	pCi/L							
Radium 226 MDC		0.13	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0 Batch: 29258										
Sample ID: C11030346-002HMS		Sample Matrix Spike								
Thorium 230		4.4	pCi/L	103		70	130			03/17/11 16:50
Sample ID: C11030346-002HMSD		Sample Matrix Spike Duplicate								
Thorium 230		4.5	pCi/L	103		70	130	2.8	35.4	03/17/11 16:50
Sample ID: LCS-29258		Laboratory Control Sample								
Thorium 230		5.26	pCi/Filter	114		70	130			03/18/11 09:32
Sample ID: MB-29258	3	Method Blank								
Thorium 230		ND	pCi/Filter	0.050						U
Thorium 230 precision (±)		0.0973	pCi/Filter							
Thorium 230 MDC		0.190	pCi/Filter							
Method: E908.0 Batch: RA-TH-ISO-1346										
Sample ID: LCS-RA-TH-ISO-1346		Laboratory Control Sample								
Thorium 230		5.4	pCi/L	93		70	130			03/22/11 09:00
Sample ID: C11030160-001DMS		Sample Matrix Spike								
Thorium 230		11	pCi/L	87		70	130			03/22/11 09:00
Sample ID: C11030160-001DMSD		Sample Matrix Spike Duplicate								
Thorium 230		12	pCi/L	95		70	130	9.3	36.7	03/22/11 09:00
Sample ID: MB-RA-TH-ISO-1346	3	Method Blank								
Thorium 230		0.15	pCi/L	0.050						03/22/11 16:58
Thorium 230 precision (±)		0.11	pCi/L							
Thorium 230 MDC		0.13	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0084		
Sample ID: LCS-PB-210-0084	Laboratory Control Sample					Run: SUB-T39702		03/24/11 20:59		
Lead 210		50	pCi/L		94	70	130			
Sample ID: MB-PB-210-0084	3	Method Blank				Run: SUB-T39702		03/24/11 18:47		
Lead 210		ND	pCi/L	0.70				U		
Lead 210 precision (±)		0.86	pCi/L							
Lead 210 MDC		1.5	pCi/L							
Sample ID: TAP WATERMS	Laboratory Fortified Blank					Run: SUB-T39702		03/25/11 01:22		
Lead 210		52	pCi/L		99	70	130			
Sample ID: TAP WATERMSD	Laboratory Fortified Blank Duplicate					Run: SUB-T39702		03/25/11 03:33		
Lead 210		47	pCi/L		88	70	130	11	30	
Method: E909.0								Batch: T_13525		
Sample ID: T11030059-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-T39754		03/28/11 02:58		
Lead 210		86	pCi/L		87	70	130	17	17.2	
Sample ID: MB-13525_29258	3	Method Blank				Run: SUB-T39754		03/27/11 18:12		
Lead 210		5.1	pCi/L	0.70				U		
Lead 210 precision (±)		8.2	pCi/L							
Lead 210 MDC		14	pCi/L							
Sample ID: LCS-13525_29258	Laboratory Control Sample					Run: SUB-T39754		03/27/11 20:24		
Lead 210		350	pCi/L		98	70	130			
Sample ID: T11030059-001HMS	Sample Matrix Spike					Run: SUB-T39754		03/28/11 00:47		
Lead 210		100	pCi/L		103	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/18/11
Work Order: C11030211

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: PO210-0349										
Sample ID: C11030211-004FMS		Sample Matrix Spike								
Polonium 210		10	pCi/L		78	70	130			03/16/11 13:28
Sample ID: C11030211-004FMSD		Sample Matrix Spike Duplicate								
Polonium 210		15	pCi/L		121	70	130	42	71	03/16/11 13:28
Sample ID: MB-PO210-0349	3	Method Blank								
Polonium 210		ND	pCi/L	0.20						03/16/11 13:28
Polonium 210 precision (±)		0.25	pCi/L							U
Polonium 210 MDC		0.67	pCi/L							
Sample ID: LCS-PO210-0349		Laboratory Control Sample								
Polonium 210		7.0	pCi/L		110	70	130			03/16/11 13:28
Method: E912.0 Batch: 29258										
Sample ID: C11030211-004HMS		Sample Matrix Spike								
Polonium 210		6.2	pCi/L		111	70	130			03/17/11 13:08
Sample ID: C11030211-004HMSD		Sample Matrix Spike Duplicate								
Polonium 210		6.4	pCi/L		115	70	130	2.9	70.6	03/17/11 13:08
Sample ID: LCS-29258		Laboratory Control Sample								
Polonium 210		23	pCi/L		77	70	130			03/18/11 09:31
Sample ID: MB-29258	3	Method Blank								
Polonium 210		ND	pCi/L	0.20						03/18/11 09:31
Polonium 210 precision (±)		1.1	pCi/L							U
Polonium 210 MDC		3.0	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030211

Login completed by: Corinne Wagner

Date Received: 3/8/2011

Reviewed by: BL2000\hackerman

Received by: ha

Reviewed Date: 3/8/2011

Carrier Ground name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 3.6°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc. Project Name: Marsland G-8 Samples EPA/State Compliance: Yes No

Report Mail Address: P.O. Box 169, Crawford, NE 69339 Contact Name: Larry Teahon Phone/Fax: 308-665-2341 Email: daxmynus@msn.com Sampler: (Please Print) Brooke Bass, Rhonda Pelton

Invoice Address: P.O. Box 169, Crawford, NE 69339 Invoice Contact & Phone: Larry Teahon, 308-665-2215 ext 114 Purchase Order: 1125 Quote/Bottle Order:

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA GSA EDD/EDT (Electronic Data) POT/WWTP Format: _____ State: _____ Other: _____

LEVEL IV NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers	Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	ANALYSIS REQUESTED								SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L.	Shipped by: <i>Chyat</i> Cooler ID(s): <i>36</i> °C On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No Custody Seal Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
						HNO3-F, Metals	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	RAW-UF, Ra226, Po210 dis, sus	RAW-UF, Pb210 dis and sus	RAW-UF, Th230, U-nat dis and sus							
1 BOW2010-2	3/4/11		Water	.5	1	1	1	5	1	1	1	1	1				Please report 4/15/11		
2 BOW2010-3	3/4/11		Water	.5	1	1	1	5	1	1	1	1	1				Please report 4/15/11		
3 BOW2010-5	3/4/11		Water	.5	1	1	1	5	1	1	1	1	1				Please report 4/15/11		
4 BOW2010-6	3/4/11		Water	.5	1	1	1	5	1	1	1	1	1				Please report 4/15/11		
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by (print): *Rhonda Pelton* Date/Time: *3-8-11 11:4* Signature: *Rhonda Pelton* Received by (print): *WPS* Date/Time: Signature: **Custody Record MUST be Signed**

Relinquished by (print): Date/Time: Signature: Received by (print): Date/Time: Signature: **Sample Disposal: Return to Client: No** Lab Disposal: YES Date/Time: *3/11 9:28* Signature: *Rhonda Pelton*

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energielab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 3/4/10

ANALYST: ht

STANDARD CURVE DATA

	<u>BL</u>		<u>.01</u>	<u>.05</u>	<u>.1</u>		
Abs			<u>.033</u>	<u>.176</u>	<u>.339</u>		
Abs							

SAMPLE #	VOLUME	Df	Abs	
1 <u>Marsland 2</u>	<u>10ml</u>	<u>1</u>	<u>.019</u>	<u><0.01</u>
2 <u>3</u>	<u>10ml</u>	<u>1</u>	<u>.083</u>	<u>0.02</u>
3 <u>5</u>	<u>10ml</u>	<u>1</u>	<u>.010</u>	<u><0.01</u>
4 <u>6</u>	<u>10ml</u>	<u>1</u>	<u>.008</u>	<u><0.01</u>
5				
Dup				
6 <u>Dup 3</u>	<u>10ml</u>	<u>1</u>	<u>.082</u>	<u>0.02</u>
7 <u>Dup 6</u>	<u>10ml</u>	<u>1</u>	<u>.008</u>	<u><0.01</u>
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

April 19, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030346 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 2 samples for Crow Butte Resources on 3/11/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030346-001	BOW 2010-1	03/09/11 0:00	03/11/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030346-002	CPW-2010-1/M	03/09/11 0:00	03/11/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11030346

Report Date: 04/19/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030346-001
Client Sample ID: BOW 2010-1

Report Date: 04/19/11
Collection Date: 03/09/11
Date Received: 03/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	211	mg/L		1		A2320 B	03/11/11 17:03 / jba
Carbonate as CO ₃	58	mg/L		1		A2320 B	03/11/11 17:03 / jba
Bicarbonate as HCO ₃	139	mg/L		1		A2320 B	03/11/11 17:03 / jba
Calcium	5	mg/L		1		E200.7	03/15/11 15:33 / rdw
Chloride	44	mg/L		1		E300.0	03/15/11 18:26 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/11/11 13:45 / jba
Magnesium	ND	mg/L		1		E200.7	03/15/11 15:33 / rdw
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/17/11 15:31 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	03/23/11 17:51 / dc
Potassium	12	mg/L		1		E200.7	03/15/11 15:33 / rdw
Silica	105	mg/L		0.2		E200.7	03/15/11 15:33 / rdw
Sodium	144	mg/L		1		E200.7	03/15/11 15:33 / rdw
Sulfate	60	mg/L	D	2		E300.0	03/15/11 18:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	682	umhos/cm		1		A2510 B	03/14/11 08:31 / lmc
pH	9.56	s.u.		0.01		A4500-H B	03/14/11 08:31 / lmc
Solids, Total Dissolved TDS @ 180 C	456	mg/L		10		A2540 C	03/11/11 15:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/15/11 15:33 / rdw
Arsenic	0.018	mg/L		0.001		E200.8	03/23/11 18:06 / sml
Barium	ND	mg/L		0.1		E200.7	03/15/11 15:33 / rdw
Boron	0.1	mg/L		0.1		E200.7	03/15/11 15:33 / rdw
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 18:06 / sml
Chromium	ND	mg/L		0.05		E200.7	03/15/11 15:33 / rdw
Copper	ND	mg/L		0.01		E200.8	03/26/11 15:24 / sml
Iron	ND	mg/L		0.03		E200.7	03/15/11 15:33 / rdw
Lead	ND	mg/L		0.001		E200.8	03/23/11 18:06 / sml
Manganese	ND	mg/L		0.01		E200.7	03/15/11 15:33 / rdw
Mercury	ND	mg/L		0.001		E200.8	03/23/11 18:06 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/15/11 15:33 / rdw
Nickel	ND	mg/L		0.05		E200.8	03/26/11 15:24 / sml
Selenium	0.021	mg/L		0.001		E200.8	03/23/11 18:06 / sml
Uranium	0.0032	mg/L		0.0003		E200.8	03/23/11 18:06 / sml
Uranium, Activity	2.2E-09	uCi/mL		2.0E-10		E200.8	03/23/11 18:06 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/26/11 15:24 / sml
Zinc	0.04	mg/L		0.01		E200.7	03/15/11 15:33 / rdw
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	03/17/11 03:47 / sml
Uranium, Activity	2.9E-10	uCi/mL		2.0E-10		E200.8	03/17/11 03:47 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030346-001
Client Sample ID: BOW 2010-1

Report Date: 04/19/11
Collection Date: 03/09/11
Date Received: 03/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	03/25/11 14:30 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 14:30 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 14:30 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/17/11 13:06 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/17/11 13:06 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/17/11 13:06 / ep
Radium 226	<0.15	pCi/L	U	0.15		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/23/11 11:28 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/23/11 11:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/23/11 11:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	03/28/11 11:44 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	03/28/11 11:44 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/28/11 11:44 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:58 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:58 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:58 / ep
Radium 226	0.14	pCi/L		0.13		E903.0	03/21/11 16:54 / dmf
Radium 226 precision (±)	0.1	pCi/L				E903.0	03/21/11 16:54 / dmf
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 16:54 / dmf
Thorium 230	<0.05	pCi/L	U	0.05		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0283	%				Calculation	04/07/11 09:55 / kbh
Anions	6.83	meq/L				Calculation	04/07/11 09:55 / kbh
Cations	6.83	meq/L				Calculation	04/07/11 09:55 / kbh
Solids, Total Dissolved Calculated	532	mg/L				Calculation	04/07/11 09:55 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	04/07/11 09:55 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030346-002
Client Sample ID: CPW-2010-1/M

Report Date: 04/19/11
Collection Date: 03/09/11
Date Received: 03/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	370	mg/L		1		A2320 B	03/11/11 17:11 / jba
Carbonate as CO3	14	mg/L		1		A2320 B	03/11/11 17:11 / jba
Bicarbonate as HCO3	422	mg/L		1		A2320 B	03/11/11 17:11 / jba
Calcium	6	mg/L		1		E200.7	03/15/11 15:57 / rdw
Chloride	178	mg/L		1		E300.0	03/15/11 18:42 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	03/11/11 13:47 / jba
Magnesium	1	mg/L		1		E200.7	03/15/11 15:57 / rdw
Nitrogen, Ammonia as N	0.24	mg/L		0.05		A4500-NH3 G	03/17/11 15:33 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/23/11 17:54 / dc
Potassium	11	mg/L		1		E200.7	03/15/11 15:57 / rdw
Silica	17.0	mg/L		0.2		E200.7	03/15/11 15:57 / rdw
Sodium	324	mg/L		1		E200.7	03/15/11 15:57 / rdw
Sulfate	94	mg/L	D	4		E300.0	03/15/11 18:42 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1430	umhos/cm		1		A2510 B	03/14/11 08:33 / lmc
pH	8.34	s.u.		0.01		A4500-H B	03/14/11 08:33 / lmc
Solids, Total Dissolved TDS @ 180 C	833	mg/L		10		A2540 C	03/11/11 15:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/15/11 15:57 / rdw
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 18:13 / sml
Barium	ND	mg/L		0.1		E200.7	03/15/11 15:57 / rdw
Boron	1.4	mg/L		0.1		E200.7	03/15/11 15:57 / rdw
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 18:13 / sml
Chromium	ND	mg/L		0.05		E200.8	03/26/11 15:31 / sml
Copper	ND	mg/L		0.01		E200.7	03/15/11 15:57 / rdw
Iron	ND	mg/L		0.03		E200.7	03/15/11 15:57 / rdw
Lead	ND	mg/L		0.001		E200.8	03/23/11 18:13 / sml
Manganese	ND	mg/L		0.01		E200.7	03/15/11 15:57 / rdw
Mercury	ND	mg/L		0.001		E200.8	03/23/11 18:13 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/15/11 15:57 / rdw
Nickel	ND	mg/L		0.05		E200.8	03/26/11 15:31 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 18:13 / sml
Uranium	0.0115	mg/L		0.0003		E200.8	03/23/11 18:13 / sml
Uranium, Activity	7.8E-09	uCi/mL		2.0E-10		E200.8	03/23/11 18:13 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/26/11 15:31 / sml
Zinc	0.03	mg/L		0.01		E200.7	03/15/11 15:57 / rdw
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/17/11 03:51 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/17/11 03:51 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030346-002
Client Sample ID: CPW-2010-1/M

Report Date: 04/19/11
Collection Date: 03/09/11
Date Received: 03/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	13.5	pCi/L		0.7		E909.0	03/25/11 16:41 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	03/25/11 16:41 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	03/25/11 16:41 / eli-cs
Polonium 210	0.5	pCi/L		0.5		E912.0	03/17/11 13:06 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/17/11 13:06 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	03/17/11 13:06 / ep
Radium 226	38	pCi/L		0.13		E903.0	03/21/11 17:17 / trs
Radium 226 precision (±)	1.2	pCi/L				E903.0	03/21/11 17:17 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 17:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/23/11 11:28 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/23/11 11:28 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/23/11 11:28 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	9.4	pCi/L		1.2		E909.0	03/28/11 13:56 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	03/28/11 13:56 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	03/28/11 13:56 / eli-cs
Polonium 210	1.9	pCi/L		0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.18	pCi/L		0.13		E903.0	03/21/11 16:54 / dmf
Radium 226 precision (±)	0.10	pCi/L				E903.0	03/21/11 16:54 / dmf
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 16:54 / dmf
Thorium 230	<0.05	pCi/L	U	0.05		E908.0	03/17/11 16:50 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	03/17/11 16:50 / dmf
Thorium 230 MDC	0.05	pCi/L				E908.0	03/17/11 16:50 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.35	%				Calculation	04/07/11 09:55 / kbh
Anions	14.4	meq/L				Calculation	04/07/11 09:55 / kbh
Cations	14.8	meq/L				Calculation	04/07/11 09:55 / kbh
Solids, Total Dissolved Calculated	858	mg/L				Calculation	04/07/11 09:55 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 09:55 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R143546
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110311B 03/11/11 14:32
Alkalinity, Total as CaCO3		1	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		2	mg/L		1					
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110311B 03/11/11 14:47
Alkalinity, Total as CaCO3		211	mg/L	5.0	105	90	110			
Sample ID: C11030345-011ADUP	3	Sample Duplicate								Run: MANTECH_110311B 03/11/11 16:46
Alkalinity, Total as CaCO3		197	mg/L	5.0				2.5	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		241	mg/L	5.0				2.5	10	
Sample ID: C11030345-011AMS		Sample Matrix Spike								Run: MANTECH_110311B 03/11/11 16:54
Alkalinity, Total as CaCO3		331	mg/L	5.0	103	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110314A		
Sample ID: ICV2_110314_1	Initial Calibration Verification Standard									03/14/11 08:29
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 110314_1_PH-W_555A-2		
Sample ID: MBLK1_110314_1	Method Blank									03/14/11 08:25
Conductivity @ 25 C		0.6	umhos/cm	0.2						
Sample ID: C11030366-001ADUP	Sample Duplicate									03/14/11 08:50
Conductivity @ 25 C		1440	umhos/cm	1.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110311_1_SLDS-TDS-W		
Sample ID: MBLK1_110311		Method Blank					Run: BAL-1_110311A			03/11/11 15:40
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110311		Laboratory Control Sample					Run: BAL-1_110311A			03/11/11 15:40
Solids, Total Dissolved TDS @ 180 C		984	mg/L	10	98	90	110			
Sample ID: C11030346-002ADUP		Sample Duplicate					Run: BAL-1_110311A			03/11/11 15:52
Solids, Total Dissolved TDS @ 180 C		847	mg/L	10				1.7	10	
Sample ID: C11030350-001AMS		Sample Matrix Spike					Run: BAL-1_110311A			03/11/11 15:53
Solids, Total Dissolved TDS @ 180 C		2040	mg/L	10	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										
Batch: R143532										
Sample ID: MBLK		Method Blank								
Fluoride		0.02	mg/L	0.008						Run: MANTECH_110311A 03/11/11 10:25
Sample ID: LCS		Laboratory Control Sample								
Fluoride		1.02	mg/L	0.10	100	90	110			Run: MANTECH_110311A 03/11/11 10:27
Sample ID: C11030345-011AMS		Sample Matrix Spike								
Fluoride		0.980	mg/L	0.10	89	80	120			Run: MANTECH_110311A 03/11/11 13:39
Sample ID: C11030345-011AMSD		Sample Matrix Spike Duplicate								
Fluoride		1.02	mg/L	0.10	93	80	120	4.0	10	Run: MANTECH_110311A 03/11/11 13:42

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110314A		
Sample ID: ICV1_110314_1		Initial Calibration Verification Standard						03/14/11 08:27		
pH		6.90	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110314_1_PH-W_555A-2		
Sample ID: C11030366-001ADUP		Sample Duplicate				Run: ORION555A-2_110314A		03/14/11 08:50		
pH		9.20	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R143734
Sample ID: LCS-5										
Laboratory Control Sample										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:11
		1.94	mg/L	0.050	97	90	110			
Sample ID: C11030323-002DMS										
Sample Matrix Spike										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:23
		1.76	mg/L	0.050	88	80	120			
Sample ID: C11030323-002DMSD										
Sample Matrix Spike Duplicate										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:27
		1.83	mg/L	0.050	91	80	120	3.9	10	
Sample ID: MBLK-35										
Method Blank										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 16:13
		ND	mg/L	0.050						

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/19/11

Project: Marsland Baseline Samples

Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R143647
Sample ID: MB-110315A	14	Method Blank					Run: ICP2-C_110315A			03/15/11 11:56
Aluminum		0.01	mg/L	0.01						
Barium		0.003	mg/L	0.0005						
Boron		0.02	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		0.003	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Potassium		ND	mg/L	0.02						
Silicon		0.010	mg/L	0.007						
Sodium		ND	mg/L	0.3						
Zinc		0.005	mg/L	0.001						
Sample ID: LFB-110315A	14	Laboratory Fortified Blank					Run: ICP2-C_110315A			03/15/11 12:01
Aluminum		0.900	mg/L	0.10	87	85	115			
Barium		0.950	mg/L	0.10	93	85	115			
Boron		0.949	mg/L	0.10	91	85	115			
Calcium		48.1	mg/L	0.50	94	85	115			
Chromium		0.947	mg/L	0.050	93	85	115			
Copper		0.945	mg/L	0.010	92	85	115			
Iron		0.957	mg/L	0.030	94	85	115			
Magnesium		47.3	mg/L	0.50	93	85	115			
Manganese		0.956	mg/L	0.010	94	85	115			
Molybdenum		0.954	mg/L	0.10	94	85	115			
Potassium		43.5	mg/L	0.50	85	85	115			
Silicon		0.442	mg/L	0.10	90	85	115			
Sodium		47.7	mg/L	0.50	93	85	115			
Zinc		0.948	mg/L	0.010	92	85	115			
Sample ID: C11030346-001CMS2	14	Sample Matrix Spike					Run: ICP2-C_110315A			03/15/11 15:37
Aluminum		1.83	mg/L	0.10	87	70	130			
Barium		1.96	mg/L	0.10	95	70	130			
Boron		2.01	mg/L	0.10	93	70	130			
Calcium		99.2	mg/L	1.0	92	70	130			
Chromium		1.92	mg/L	0.050	94	70	130			
Copper		1.95	mg/L	0.010	95	70	130			
Iron		1.91	mg/L	0.030	94	70	130			
Magnesium		89.5	mg/L	1.0	88	70	130			
Manganese		1.93	mg/L	0.010	95	70	130			
Molybdenum		1.91	mg/L	0.10	93	70	130			
Potassium		94.7	mg/L	1.0	81	70	130			
Silicon		49.3	mg/L	0.10		70	130			A
Sodium		241	mg/L	1.0	95	70	130			
Zinc		1.89	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7								Batch: R143647			
Sample ID: C11030346-001CMSD 14 Sample Matrix Spike Duplicate				Run: ICP2-C_110315A				03/15/11 15:41			
Aluminum		1.83	mg/L	0.10	88	70	130	0.2	20		
Barium		1.96	mg/L	0.10	95	70	130	0.2	20		
Boron		2.04	mg/L	0.10	95	70	130	1.3	20		
Calcium		97.6	mg/L	1.0	91	70	130	1.6	20		
Chromium		1.86	mg/L	0.050	91	70	130	3.3	20		
Copper		1.91	mg/L	0.010	94	70	130	1.9	20		
Iron		1.85	mg/L	0.030	91	70	130	3.3	20		
Magnesium		88.2	mg/L	1.0	86	70	130	1.4	20		
Manganese		1.88	mg/L	0.010	92	70	130	2.4	20		
Molybdenum		1.88	mg/L	0.10	92	70	130	1.8	20		
Potassium		95.5	mg/L	1.0	82	70	130	0.8	20		
Silicon		48.4	mg/L	0.10		70	130	1.8	20	A	
Sodium		236	mg/L	1.0	89	70	130	2.4	20		
Zinc		1.84	mg/L	0.010	89	70	130	2.7	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/19/11

Project: Marsland Baseline Samples

Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: 29258										
Sample ID: MB-29258		Method Blank								
Uranium		ND	mg/L	6E-05						Run: ICPMS2-C_110316A 03/17/11 03:01
Sample ID: LCS2-29258		Laboratory Control Sample								
Uranium		0.0969	mg/L	0.00030	97	85	115			Run: ICPMS2-C_110316A 03/17/11 03:05
Sample ID: C11030365-008AMS		Sample Matrix Spike								
Uranium		0.0561	pCi/Filter	0.00030	112	70	130			Run: ICPMS2-C_110316A 03/17/11 04:49
Sample ID: C11030365-008AMSD		Sample Matrix Spike Duplicate								
Uranium		0.0546	pCi/Filter	0.00030	109	70	130	2.8	20	Run: ICPMS2-C_110316A 03/17/11 04:53
Method: E200.8 Batch: R143967										
Sample ID: LRB	6	Method Blank								
Arsenic		7E-05	mg/L	6E-05						Run: ICPMS2-C_110323A 03/23/11 12:03
Cadmium		ND	mg/L	1E-05						
Lead		ND	mg/L	3E-05						
Mercury		ND	mg/L	8E-05						
Selenium		0.0004	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Sample ID: LFB	6	Laboratory Fortified Blank								
Arsenic		0.0528	mg/L	0.0010	105	85	115			Run: ICPMS2-C_110323A 03/23/11 12:10
Cadmium		0.0534	mg/L	0.0010	107	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Mercury		0.00539	mg/L	0.0010	108	85	115			
Selenium		0.0523	mg/L	0.0010	104	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Sample ID: C11030345-010CMS4	6	Sample Matrix Spike								
Arsenic		0.0619	mg/L	0.0010	101	70	130			Run: ICPMS2-C_110323A 03/23/11 17:12
Cadmium		0.0482	mg/L	0.010	96	70	130			
Lead		0.0511	mg/L	0.050	102	70	130			
Mercury		0.00509	mg/L	0.0010	102	70	130			
Selenium		0.0466	mg/L	0.0010	92	70	130			
Uranium		0.0865	mg/L	0.00030	104	70	130			
Sample ID: C11030345-010CMSD	6	Sample Matrix Spike Duplicate								
Arsenic		0.0667	mg/L	0.0010	110	70	130	7.4	20	Run: ICPMS2-C_110323A 03/23/11 17:19
Cadmium		0.0528	mg/L	0.010	106	70	130	9.1	20	
Lead		0.0544	mg/L	0.050	109	70	130	6.2	20	
Mercury		0.00548	mg/L	0.0010	110	70	130	7.3	20	
Selenium		0.0512	mg/L	0.0010	101	70	130	9.3	20	
Uranium		0.0886	mg/L	0.00030	108	70	130	2.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144080
Sample ID: LRB	4	Method Blank								Run: ICPMS2-C_110325A 03/25/11 12:30
Chromium		0.00010	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Nickel		ND	mg/L	0.0007						
Vanadium		6E-05	mg/L	3E-05						
Sample ID: LFB	4	Laboratory Fortified Blank								Run: ICPMS2-C_110325A 03/25/11 12:37
Chromium		0.0542	mg/L	0.0010	108	85	115			
Copper		0.0546	mg/L	0.0010	109	85	115			
Nickel		0.0539	mg/L	0.0010	108	85	115			
Vanadium		0.0537	mg/L	0.0010	107	85	115			
Sample ID: C11030346-002CMS4	4	Sample Matrix Spike								Run: ICPMS2-C_110325A 03/26/11 15:37
Chromium		0.0460	mg/L	0.0010	92	70	130			
Copper		0.0549	mg/L	0.010	96	70	130			
Nickel		0.0455	mg/L	0.0010	91	70	130			
Vanadium		0.0488	mg/L	0.0010	97	70	130			
Sample ID: C11030346-002CMSD	4	Sample Matrix Spike Duplicate								Run: ICPMS2-C_110325A 03/26/11 16:11
Chromium		0.0483	mg/L	0.0010	96	70	130	4.9	20	
Copper		0.0551	mg/L	0.010	97	70	130	0.5	20	
Nickel		0.0472	mg/L	0.0010	94	70	130	3.6	20	
Vanadium		0.0510	mg/L	0.0010	102	70	130	4.4	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/19/11

Project: Marsland Baseline Samples

Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110315A		
Sample ID: ICV	2	Initial Calibration Verification Standard								03/15/11 12:16
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.1	mg/L	1.0	100	90	110			
Method: E300.0								Batch: R143695		
Sample ID: MBLK	2	Method Blank						Run: IC2-C_110315A		03/15/11 12:32
Chloride		ND	mg/L	0.06						
Sulfate		0.2	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank						Run: IC2-C_110315A		03/15/11 13:02
Chloride		12.4	mg/L	1.0	100	90	110			
Sulfate		50.2	mg/L	1.0	100	90	110			
Sample ID: C11030346-002BMS	2	Sample Matrix Spike						Run: IC2-C_110315A		03/15/11 18:57
Chloride		227	mg/L	1.0	101	80	120			
Sulfate		294	mg/L	4.0	102	80	120			
Sample ID: C11030346-002BMSD	2	Sample Matrix Spike Duplicate						Run: IC2-C_110315A		03/15/11 19:12
Chloride		227	mg/L	1.0	100	80	120	0.3	10	
Sulfate		292	mg/L	4.0	101	80	120	0.7	10	
Sample ID: LCS	2	Laboratory Control Sample						Run: IC2-C_110315A		03/15/11 20:30
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R143975
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_110323A 03/23/11 17:24
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.61	mg/L	0.10	104	90	110			Run: TECHNICON_110323A 03/23/11 17:26
Sample ID: C11030377-001DMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.07	mg/L	0.10	106	90	110			Run: TECHNICON_110323A 03/23/11 17:41
Sample ID: C11030377-001DMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.10	mg/L	0.10	107	90	110	1.4	10	Run: TECHNICON_110323A 03/23/11 17:44

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 29258
Sample ID: C11030211-001HMS	Sample Matrix Spike					Run: G542M_110315A				03/21/11 15:15
Radium 226	11		pCi/L	107		70	130			
Sample ID: C11030211-001HMSD	Sample Matrix Spike Duplicate					Run: G542M_110315A				03/21/11 15:15
Radium 226	10		pCi/L	97		70	130	6.0	24.7	
Sample ID: LCS-29258	Laboratory Control Sample					Run: G542M_110315A				03/21/11 16:54
Radium 226	11.4		pCi/Filter	95		70	130			
Sample ID: MB-29258	3	Method Blank				Run: G542M_110315A				03/21/11 16:54
Radium 226		-0.07	pCi/Filter							U
Radium 226 precision (±)		0.2	pCi/Filter							
Radium 226 MDC		0.3	pCi/Filter							
Method: E903.0										Batch: RA226-5235
Sample ID: C11030211-003DMS	Sample Matrix Spike					Run: TENNELEC-3_110315B				03/21/11 17:17
Radium 226	14		pCi/L	109		70	130			
Sample ID: C11030211-003DMSD	Sample Matrix Spike Duplicate					Run: TENNELEC-3_110315B				03/21/11 17:17
Radium 226	14		pCi/L	111		70	130	1.7	25.1	
Sample ID: LCS-RA226-5235	Laboratory Control Sample					Run: TENNELEC-3_110315B				03/21/11 20:55
Radium 226	6.2		pCi/L	95		85	115			
Sample ID: MB-RA226-5235	3	Method Blank				Run: TENNELEC-3_110315B				03/21/11 20:55
Radium 226		0.2	pCi/L							
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: 29258
Sample ID: C11030346-002HMS		Sample Matrix Spike								
Thorium 230		4.4	pCi/L	103		70	130			03/17/11 16:50
Sample ID: C11030346-002HMSD		Sample Matrix Spike Duplicate								
Thorium 230		4.5	pCi/L	103		70	130	2.8	35.4	03/17/11 16:50
Sample ID: LCS-29258		Laboratory Control Sample								
Thorium 230		5.26	pCi/Filter	114		70	130			03/18/11 09:32
Sample ID: MB-29258	3	Method Blank								
Thorium 230		-0.3	pCi/Filter							U
Thorium 230 precision (±)		0.10	pCi/Filter							
Thorium 230 MDC		0.2	pCi/Filter							
Method: E908.0										Batch: RA-TH-ISO-1347
Sample ID: LCS-RA-TH-ISO-1347		Laboratory Control Sample								
Thorium 230		4.8	pCi/L	89		70	130			03/23/11 11:28
Sample ID: C11030345-007DMS		Sample Matrix Spike								
Thorium 230		13	pCi/L	103		70	130			03/23/11 11:28
Sample ID: C11030345-007DMSD		Sample Matrix Spike Duplicate								
Thorium 230		12	pCi/L	91		70	130	11	36.2	03/23/11 11:28
Sample ID: MB-RA-TH-ISO-1347	3	Method Blank								
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.09	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 04/19/11

Project: Marsland Baseline Samples

Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0084		
Sample ID: LCS-PB-210-0084	Laboratory Control Sample					Run: SUB-T39702		03/24/11 20:59		
Lead 210		50	pCi/L		94	70	130			
Sample ID: MB-PB-210-0084	3	Method Blank				Run: SUB-T39702		03/24/11 18:47		
Lead 210		-0.5	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: TAP WATERMS	Laboratory Fortified Blank					Run: SUB-T39702		03/25/11 01:22		
Lead 210		52	pCi/L		99	70	130			
Sample ID: TAP WATERMSD	Laboratory Fortified Blank Duplicate					Run: SUB-T39702		03/25/11 03:33		
Lead 210		47	pCi/L		88	70	130	11	30	
Method: E909.0								Batch: T_13525		
Sample ID: T11030059-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-T39754		03/28/11 02:58		
Lead 210		86	pCi/L		87	70	130	17	17.2	
Sample ID: MB-13525_29258	3	Method Blank				Run: SUB-T39754		03/27/11 18:12		
Lead 210		5	pCi/L							U
Lead 210 precision (±)		8	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-13525_29258	Laboratory Control Sample					Run: SUB-T39754		03/27/11 20:24		
Lead 210		350	pCi/L		98	70	130			
Sample ID: T11030059-001HMS	Sample Matrix Spike					Run: SUB-T39754		03/28/11 00:47		
Lead 210		100	pCi/L		103	70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 04/19/11
Work Order: C11030346

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0351		
Sample ID: C11030396-002FMS		Sample Matrix Spike				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		11	pCi/L	82		70	130			
Sample ID: C11030396-002FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		10	pCi/L	78		70	130	5.0	76	
Sample ID: MB-PO210-0351	3	Method Blank				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		-0.03	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.8	pCi/L							
Sample ID: LCS-PO210-0351		Laboratory Control Sample				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		7.2	pCi/L	113		70	130			
Method: E912.0								Batch: R144922		
Sample ID: LCS-29258		Laboratory Control Sample				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		29	pCi/L	96		70	130			
Sample ID: MB-29258	3	Method Blank				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		-0.05	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: C11030766-001HMS		Sample Matrix Spike				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		5.1	pCi/L	89		70	130			
Sample ID: C11030766-001HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		5.1	pCi/L	88		70	130	1.7	71.5	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030346

Login completed by: Edith McPike

Date Received: 3/11/2011

Reviewed by: BL2000\hackerman

Received by: ha

Reviewed Date: 3/14/2011

Carrier Next Day Air Saver
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 5.4°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved as necessary per quote.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Project Name Marsland Baseline Samples			Sample Origin State:			EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>		
Contact Name: Larry Teahon Phone/Fax: 308-665-2341			Email: daxmynus@msn.com			Sampler: (Please Print) Brooke Bass Rhonda Pelton		
Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114			Purchase Order: 1125			Quote/Bottle Order:		
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP State: _____ <input type="checkbox"/> Other: _____			<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC			Shipped by: UPS Cooler ID(s): Various		
Report Mail Address: P.O. Box 169 Crawford, NE 69339			Invoice Address: P.O. Box 169 Crawford, NE 69339			Receipt Temp 5.4 °C On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No		
Number of Containers Air Water Soils/Solids Vegetation Bioassay Other			HNO3-F, Metals RAW-F, Common Ions RAW-UF, Alkalinity H2SO4-F, NO2, NO3, NH4 Raw-UF, Ra226, Po210 dis, sus Raw-UF, Pb210 dis and sus Raw-UF, Th230, U-nat dis and sus			Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L. Please report 4/15/11 Please report 4/15/11		
MATRIX Water Water			ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)			Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page LABORATORY USE ONLY		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 BOW 3010 1 2 CPW-3010-1/m 3 4 5 6 7 8 9 10			Collection Date 3/9/11 3/9/11			Collection Time 		
Relinquished by (print): Rhonda Pelton Date / Time: 3-10-11 1300			Signature: 			Received by (print): UPS Date / Time:		
Relinquished by (print): 			Signature: 			Received by (print): 		
Sample Disposal: Return to Client: No			Lab Disposal: YES			Date / Time: 3-11-11 930 Signature: 		
Custody Record MUST be Signed			Signature: 					

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 3/9/11

ANALYST: SM

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.10			
Abs	0	.035	.176				
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 CPW 2010-1	10 ml	1	- .000	< 0.01
2 BOW-1	10 ml	1	.040	0.01
3 BOW-1 Dup	10 ml	1	.042	0.01
4				
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

May 06, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030468 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland G-8 Samples

Energy Laboratories, Inc. Casper WY received the following 10 samples for Crow Butte Resources on 3/16/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030468-001	Monitor 1	03/12/11 0:00	03/16/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030468-002	Monitor 2	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-003	Monitor 4A	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-004	Monitor 5	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-005	Monitor 6	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-006	Monitor 7	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-007	Monitor 8	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-008	Monitor 9	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-009	Monitor 10	03/12/11 0:00	03/16/11	Aqueous	Same As Above
C11030468-010	Monitor 11	03/12/11 0:00	03/16/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland G-8 Samples
Sample Delivery Group: C11030468

Report Date: 05/06/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-001
Client Sample ID: Monitor 1

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	412	mg/L		1		A2320 B	03/16/11 21:34 / jba
Carbonate as CO3	13	mg/L		1		A2320 B	03/16/11 21:34 / jba
Bicarbonate as HCO3	476	mg/L		1		A2320 B	03/16/11 21:34 / jba
Calcium	5	mg/L		1		E200.7	03/29/11 14:36 / cp
Chloride	179	mg/L		1		E300.0	03/17/11 23:20 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/17/11 11:48 / jba
Magnesium	1	mg/L		1		E200.7	03/29/11 14:36 / cp
Nitrogen, Ammonia as N	0.21	mg/L		0.05		A4500-NH3 G	03/18/11 15:11 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:26 / dc
Potassium	8	mg/L		1		E200.7	03/29/11 14:36 / cp
Silica	17.0	mg/L		0.2		E200.7	03/29/11 14:36 / cp
Sodium	332	mg/L		1		E200.7	03/29/11 14:36 / cp
Sulfate	60	mg/L	D	4		E300.0	03/17/11 23:20 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1410	umhos/cm		1		A2510 B	03/16/11 13:57 / lmc
pH	8.25	s.u.		0.01		A4500-H B	03/16/11 13:57 / lmc
Solids, Total Dissolved TDS @ 180 C	848	mg/L		10		A2540 C	03/17/11 13:34 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/29/11 14:36 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/29/11 23:23 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 19:21 / sml
Boron	1.4	mg/L		0.1		E200.7	03/29/11 14:36 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 19:21 / sml
Chromium	ND	mg/L		0.05		E200.7	03/29/11 14:36 / cp
Copper	ND	mg/L		0.01		E200.7	03/29/11 14:36 / cp
Iron	0.15	mg/L		0.03		E200.7	03/29/11 14:36 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 19:21 / sml
Manganese	0.01	mg/L		0.01		E200.7	03/29/11 14:36 / cp
Mercury	ND	mg/L		0.001		E200.8	03/23/11 19:21 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/29/11 14:36 / cp
Nickel	ND	mg/L		0.05		E200.7	03/29/11 14:36 / cp
Selenium	0.004	mg/L		0.001		E200.8	03/29/11 23:23 / sml
Uranium	0.0132	mg/L		0.0003		E200.8	03/23/11 19:21 / sml
Uranium, Activity	9.0E-09	uCi/mL		2.0E-10		E200.8	03/23/11 19:21 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/29/11 14:36 / cp
Zinc	0.02	mg/L		0.01		E200.7	03/29/11 14:36 / cp
METALS - SUSPENDED							
Uranium	0.0378	mg/L		0.0003		E200.8	03/19/11 03:07 / sml
Uranium, Activity	2.6E-08	uCi/mL		2.0E-10		E200.8	03/19/11 03:07 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-001
Client Sample ID: Monitor 1

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	109	pCi/L		0.8		E909.0	04/15/11 09:52 / jb
Lead 210 precision (±)	1.5	pCi/L				E909.0	04/15/11 09:52 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/15/11 09:52 / jb
Polonium 210	8.3	pCi/L		0.8		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	2.5	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.8	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	16	pCi/L		0.15		E903.0	03/29/11 12:24 / trs
Radium 226 precision (±)	0.83	pCi/L				E903.0	03/29/11 12:24 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/29/11 12:24 / trs
Thorium 230	1.7	pCi/L		0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	103	pCi/L		0.9		E909.0	04/29/11 11:46 / eli-cs
Lead 210 precision (±)	1.4	pCi/L				E909.0	04/29/11 11:46 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 11:46 / eli-cs
Polonium 210	12.8	pCi/L		0.6		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	4.8	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	30	pCi/L		0.14		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	1.1	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	11.6	pCi/L		0.1		E908.0	03/30/11 11:20 / dmf
Thorium 230 precision (±)	1.9	pCi/L				E908.0	03/30/11 11:20 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 11:20 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.46	%				Calculation	04/07/11 10:20 / kbh
Anions	14.6	meq/L				Calculation	04/07/11 10:20 / kbh
Cations	15.0	meq/L				Calculation	04/07/11 10:20 / kbh
Solids, Total Dissolved Calculated	854	mg/L				Calculation	04/07/11 10:20 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	04/07/11 10:20 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-002
Client Sample ID: Monitor 2

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	408	mg/L		1		A2320 B	03/16/11 21:52 / jba
Carbonate as CO ₃	15	mg/L		1		A2320 B	03/16/11 21:52 / jba
Bicarbonate as HCO ₃	469	mg/L		1		A2320 B	03/16/11 21:52 / jba
Calcium	4	mg/L		1		E200.7	03/29/11 14:48 / cp
Chloride	169	mg/L		1		E300.0	03/18/11 00:06 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/17/11 11:56 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 14:48 / cp
Nitrogen, Ammonia as N	0.21	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:13 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:29 / dc
Potassium	8	mg/L		1		E200.7	03/29/11 14:48 / cp
Silica	17.9	mg/L		0.2		E200.7	03/29/11 14:48 / cp
Sodium	308	mg/L		1		E200.7	03/29/11 14:48 / cp
Sulfate	58	mg/L	D	4		E300.0	03/18/11 00:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1410	umhos/cm		1		A2510 B	03/16/11 13:59 / lmc
pH	8.30	s.u.		0.01		A4500-H B	03/16/11 13:59 / lmc
Solids, Total Dissolved TDS @ 180 C	845	mg/L		10		A2540 C	03/17/11 13:34 / lmc
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.7	03/29/11 14:48 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/23/11 19:27 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 19:27 / sml
Boron	1.5	mg/L		0.1		E200.7	03/29/11 14:48 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 19:27 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 19:27 / sml
Copper	ND	mg/L		0.01		E200.7	03/29/11 14:48 / cp
Iron	0.11	mg/L		0.03		E200.7	03/29/11 14:48 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 19:27 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 19:27 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 19:27 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/29/11 14:48 / cp
Nickel	ND	mg/L		0.05		E200.7	03/29/11 14:48 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/23/11 19:27 / sml
Uranium	0.0032	mg/L		0.0003		E200.8	03/23/11 19:27 / sml
Uranium, Activity	2.2E-09	uCi/mL		2.0E-10		E200.8	03/23/11 19:27 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 19:27 / sml
Zinc	0.01	mg/L		0.01		E200.7	03/29/11 14:48 / cp
METALS - SUSPENDED							
Uranium	0.0012	mg/L		0.0003		E200.8	03/19/11 03:11 / sml
Uranium, Activity	8.3E-10	uCi/mL		2.0E-10		E200.8	03/19/11 03:11 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-002
Client Sample ID: Monitor 2

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	3.9	pCi/L		0.9		E909.0	04/15/11 12:04 / jb
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/15/11 12:04 / jb
Lead 210 MDC	0.9	pCi/L				E909.0	04/15/11 12:04 / jb
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	1.0	pCi/L		0.10		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.18	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	0.2	pCi/L		0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/29/11 13:58 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/29/11 13:58 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 13:58 / eli-cs
Polonium 210	0.4	pCi/L		0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	1.1	pCi/L		0.12		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	0.20	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	0.3	pCi/L		0.07		E908.0	03/30/11 11:20 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/30/11 11:20 / dmf
Thorium 230 MDC	0.07	pCi/L				E908.0	03/30/11 11:20 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.00	%				Calculation	04/07/11 10:21 / kbh
Anions	14.2	meq/L				Calculation	04/07/11 10:21 / kbh
Cations	13.9	meq/L				Calculation	04/07/11 10:21 / kbh
Solids, Total Dissolved Calculated	816	mg/L				Calculation	04/07/11 10:21 / kbh
TDS Balance (0.80 - 1.20)	1.04					Calculation	04/07/11 10:21 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-003
Client Sample ID: Monitor 4A

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	352	mg/L		1		A2320 B	03/16/11 22:01 / jba
Carbonate as CO ₃	28	mg/L		1		A2320 B	03/16/11 22:01 / jba
Bicarbonate as HCO ₃	374	mg/L		1		A2320 B	03/16/11 22:01 / jba
Calcium	3	mg/L		1		E200.7	03/29/11 14:56 / cp
Chloride	284	mg/L	D	2		E300.0	03/22/11 15:04 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	03/17/11 12:05 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 14:56 / cp
Nitrogen, Ammonia as N	0.24	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:15 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:31 / dc
Potassium	17	mg/L		1		E200.7	03/29/11 14:56 / cp
Silica	18.4	mg/L		0.2		E200.7	03/29/11 14:56 / cp
Sodium	394	mg/L		1		E200.7	03/29/11 14:56 / cp
Sulfate	113	mg/L	D	4		E300.0	03/18/11 00:22 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1760	umhos/cm		1		A2510 B	03/16/11 14:01 / lmc
pH	8.92	s.u.		0.01		A4500-H B	03/16/11 14:01 / lmc
Solids, Total Dissolved TDS @ 180 C	1020	mg/L		10		A2540 C	03/17/11 13:34 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/23/11 21:44 / sml
Arsenic	0.006	mg/L		0.001		E200.8	03/23/11 21:44 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 21:44 / sml
Boron	1.2	mg/L		0.1		E200.7	03/29/11 14:56 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 21:44 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 21:44 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 21:44 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 14:56 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 21:44 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 21:44 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 21:44 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 21:44 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 21:44 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/23/11 21:44 / sml
Uranium	0.0840	mg/L		0.0003		E200.8	03/23/11 21:44 / sml
Uranium, Activity	5.7E-08	uCi/mL		2.0E-10		E200.8	03/23/11 21:44 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 21:44 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 21:44 / sml
METALS - SUSPENDED							
Uranium	0.0013	mg/L		0.0003		E200.8	03/19/11 03:16 / sml
Uranium, Activity	8.9E-10	uCi/mL		2.0E-10		E200.8	03/19/11 03:16 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-003
Client Sample ID: Monitor 4A

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	326	pCi/L		0.8		E909.0	04/15/11 14:15 / jb
Lead 210 precision (±)	2.5	pCi/L				E909.0	04/15/11 14:15 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/15/11 14:15 / jb
Polonium 210	145	pCi/L		1.3		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	46.1	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	1.3	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	240	pCi/L		0.15		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	3.2	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	62.1	pCi/L		0.9		E909.0	04/29/11 16:09 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0	04/29/11 16:09 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 16:09 / eli-cs
Polonium 210	9.1	pCi/L		0.4		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	3.0	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.4	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	0.77	pCi/L		0.12		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	0.17	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	0.6	pCi/L		0.09		E908.0	03/30/11 11:20 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	03/30/11 11:20 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	03/30/11 11:20 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.04	%				Calculation	04/07/11 10:21 / kbh
Anions	17.4	meq/L				Calculation	04/07/11 10:21 / kbh
Cations	17.8	meq/L				Calculation	04/07/11 10:21 / kbh
Solids, Total Dissolved Calculated	1050	mg/L				Calculation	04/07/11 10:21 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 10:21 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-004
Client Sample ID: Monitor 5

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	318	mg/L		1		A2320 B	03/16/11 22:09 / jba
Carbonate as CO ₃	115	mg/L		1		A2320 B	03/16/11 22:09 / jba
Bicarbonate as HCO ₃	155	mg/L		1		A2320 B	03/16/11 22:09 / jba
Calcium	5	mg/L		1		E200.7	03/29/11 15:16 / cp
Chloride	369	mg/L	D	4		E300.0	03/22/11 15:50 / ljl
Fluoride	0.9	mg/L		0.1		A4500-F C	03/17/11 12:08 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 15:16 / cp
Nitrogen, Ammonia as N	0.50	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:23 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:34 / dc
Potassium	41	mg/L		1		E200.7	03/29/11 15:16 / cp
Silica	30.0	mg/L		0.2		E200.7	03/29/11 15:16 / cp
Sodium	519	mg/L		1		E200.7	03/29/11 15:16 / cp
Sulfate	308	mg/L	D	4		E300.0	03/18/11 00:37 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2400	umhos/cm		1		A2510 B	03/16/11 14:02 / lmc
pH	9.92	s.u.		0.01		A4500-H B	03/16/11 14:02 / lmc
Solids, Total Dissolved TDS @ 180 C	1420	mg/L		10		A2540 C	03/17/11 13:35 / lmc
METALS - DISSOLVED							
Aluminum	0.4	mg/L		0.1		E200.8	03/23/11 21:50 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 21:50 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 21:50 / sml
Boron	1.2	mg/L		0.1		E200.7	03/29/11 15:16 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 21:50 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 21:50 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 21:50 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:16 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 21:50 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 21:50 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 21:50 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 21:50 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 21:50 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 21:50 / sml
Uranium	0.0006	mg/L		0.0003		E200.8	03/23/11 21:50 / sml
Uranium, Activity	4.3E-10	uCi/mL		2.0E-10		E200.8	03/23/11 21:50 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 21:50 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 21:50 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:20 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:20 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-004
Client Sample ID: Monitor 5

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.1	pCi/L		0.9		E909.0	04/15/11 16:26 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/15/11 16:26 / jb
Lead 210 MDC	0.9	pCi/L				E909.0	04/15/11 16:26 / jb
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.35	pCi/L		0.13		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/29/11 18:21 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/29/11 18:21 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 18:21 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.12	pCi/L	U	0.12		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.50	%				Calculation	04/07/11 10:21 / kbh
Anions	23.2	meq/L				Calculation	04/07/11 10:21 / kbh
Cations	23.9	meq/L				Calculation	04/07/11 10:21 / kbh
Solids, Total Dissolved Calculated	1470	mg/L				Calculation	04/07/11 10:21 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 10:21 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-005
Client Sample ID: Monitor 6

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	370	mg/L		1		A2320 B	03/16/11 22:18 / jba
Carbonate as CO ₃	68	mg/L		1		A2320 B	03/16/11 22:18 / jba
Bicarbonate as HCO ₃	313	mg/L		1		A2320 B	03/16/11 22:18 / jba
Calcium	7	mg/L		1		E200.7	03/29/11 15:20 / cp
Chloride	492	mg/L	D	4		E300.0	03/22/11 16:06 / ljl
Fluoride	0.9	mg/L		0.1		A4500-F C	03/17/11 12:10 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 15:20 / cp
Nitrogen, Ammonia as N	0.42	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:25 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:36 / dc
Potassium	29	mg/L		1		E200.7	03/29/11 15:20 / cp
Silica	21.7	mg/L		0.2		E200.7	03/29/11 15:20 / cp
Sodium	499	mg/L		1		E200.7	03/29/11 15:20 / cp
Sulfate	59	mg/L	D	4		E300.0	03/18/11 00:52 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2290	umhos/cm		1		A2510 B	03/16/11 14:04 / lmc
pH	9.32	s.u.		0.01		A4500-H B	03/16/11 14:04 / lmc
Solids, Total Dissolved TDS @ 180 C	1290	mg/L		10		A2540 C	03/17/11 13:35 / lmc
METALS - DISSOLVED							
Aluminum	0.2	mg/L		0.1		E200.8	03/23/11 21:57 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 21:57 / sml
Barium	0.1	mg/L		0.1		E200.8	03/23/11 21:57 / sml
Boron	1.3	mg/L		0.1		E200.7	03/29/11 15:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 21:57 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 21:57 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 21:57 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:20 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 21:57 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 21:57 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 21:57 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 21:57 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 21:57 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 21:57 / sml
Uranium	0.0027	mg/L		0.0003		E200.8	03/23/11 21:57 / sml
Uranium, Activity	1.8E-09	uCi/mL		2.0E-10		E200.8	03/23/11 21:57 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 21:57 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 21:57 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:24 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-005
Client Sample ID: Monitor 6

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.0	pCi/L		0.8		E909.0	04/15/11 18:38 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/15/11 18:38 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/15/11 18:38 / jb
Polonium 210	0.9	pCi/L		0.7		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	2.4	pCi/L		0.13		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.31	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/29/11 20:32 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/29/11 20:32 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 20:32 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.12	pCi/L	U	0.12		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.12	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.720	%				Calculation	04/07/11 10:21 / kbh
Anions	22.6	meq/L				Calculation	04/07/11 10:21 / kbh
Cations	22.9	meq/L				Calculation	04/07/11 10:21 / kbh
Solids, Total Dissolved Calculated	1340	mg/L				Calculation	04/07/11 10:21 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	04/07/11 10:21 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-006
Client Sample ID: Monitor 7

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	253	mg/L		1		A2320 B	03/16/11 22:27 / jba
Carbonate as CO ₃	36	mg/L		1		A2320 B	03/16/11 22:27 / jba
Bicarbonate as HCO ₃	237	mg/L		1		A2320 B	03/16/11 22:27 / jba
Calcium	8	mg/L		1		E200.7	03/29/11 15:24 / cp
Chloride	400	mg/L	D	4		E300.0	03/22/11 16:21 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	03/17/11 12:13 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 15:24 / cp
Nitrogen, Ammonia as N	0.21	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:27 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:44 / dc
Potassium	19	mg/L		1		E200.7	03/29/11 15:24 / cp
Silica	18.9	mg/L		0.2		E200.7	03/29/11 15:24 / cp
Sodium	501	mg/L		1		E200.7	03/29/11 15:24 / cp
Sulfate	295	mg/L	D	4		E300.0	03/18/11 01:08 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2310	umhos/cm		1		A2510 B	03/16/11 14:05 / lmc
pH	9.19	s.u.		0.01		A4500-H B	03/16/11 14:05 / lmc
Solids, Total Dissolved TDS @ 180 C	1380	mg/L		10		A2540 C	03/17/11 13:36 / lmc
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.8	03/23/11 22:04 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 22:04 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 22:04 / sml
Boron	1.2	mg/L		0.1		E200.7	03/29/11 15:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 22:04 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 22:04 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 22:04 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:24 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 22:04 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 22:04 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 22:04 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 22:04 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 22:04 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/23/11 22:04 / sml
Uranium	0.0008	mg/L		0.0003		E200.8	03/23/11 22:04 / sml
Uranium, Activity	5.3E-10	uCi/mL		2.0E-10		E200.8	03/23/11 22:04 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 22:04 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 22:04 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:28 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:28 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-006
Client Sample ID: Monitor 7

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/15/11 20:49 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/15/11 20:49 / jb
Lead 210 MDC	0.9	pCi/L				E909.0	04/15/11 20:49 / jb
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.79	pCi/L		0.14		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.19	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/29/11 22:44 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/29/11 22:44 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 22:44 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.568	%				Calculation	04/07/11 10:22 / kbh
Anions	22.5	meq/L				Calculation	04/07/11 10:22 / kbh
Cations	22.8	meq/L				Calculation	04/07/11 10:22 / kbh
Solids, Total Dissolved Calculated	1400	mg/L				Calculation	04/07/11 10:22 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	04/07/11 10:22 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-007
Client Sample ID: Monitor 8

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	296	mg/L		1		A2320 B	03/16/11 22:35 / jba
Carbonate as CO ₃	30	mg/L		1		A2320 B	03/16/11 22:35 / jba
Bicarbonate as HCO ₃	301	mg/L		1		A2320 B	03/16/11 22:35 / jba
Calcium	10	mg/L		1		E200.7	03/29/11 15:28 / cp
Chloride	262	mg/L	D	2		E300.0	03/22/11 16:37 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	03/17/11 12:16 / jba
Magnesium	2	mg/L		1		E200.7	03/29/11 15:28 / cp
Nitrogen, Ammonia as N	0.31	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:29 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:46 / dc
Potassium	20	mg/L		1		E200.7	03/29/11 15:28 / cp
Silica	21.0	mg/L		0.2		E200.7	03/29/11 15:28 / cp
Sodium	482	mg/L		1		E200.7	03/29/11 15:28 / cp
Sulfate	389	mg/L	D	4		E300.0	03/18/11 09:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2140	umhos/cm		1		A2510 B	03/17/11 09:41 / lmc
pH	9.05	s.u.		0.01		A4500-H B	03/17/11 09:41 / lmc
Solids, Total Dissolved TDS @ 180 C	1330	mg/L		10		A2540 C	03/17/11 13:37 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/23/11 22:11 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 22:11 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 22:11 / sml
Boron	1.3	mg/L		0.1		E200.7	03/29/11 15:28 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 22:11 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 22:11 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 22:11 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:28 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 22:11 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 22:11 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 22:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 22:11 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 22:11 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 22:11 / sml
Uranium	0.0007	mg/L		0.0003		E200.8	03/23/11 22:11 / sml
Uranium, Activity	4.8E-10	uCi/mL		2.0E-10		E200.8	03/23/11 22:11 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 22:11 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 22:11 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:49 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:49 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-007
Client Sample ID: Monitor 8

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.0	pCi/L		0.8		E909.0	04/15/11 23:01 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/15/11 23:01 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/15/11 23:01 / jb
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.50	pCi/L		0.14		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.16	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/30/11 00:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/30/11 00:55 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/30/11 00:55 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.54	%				Calculation	04/07/11 10:22 / kbh
Anions	21.4	meq/L				Calculation	04/07/11 10:22 / kbh
Cations	22.1	meq/L				Calculation	04/07/11 10:22 / kbh
Solids, Total Dissolved Calculated	1370	mg/L				Calculation	04/07/11 10:22 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 10:22 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-008
Client Sample ID: Monitor 9

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	295	mg/L		1		A2320 B	03/16/11 22:44 / jba
Carbonate as CO3	43	mg/L		1		A2320 B	03/16/11 22:44 / jba
Bicarbonate as HCO3	272	mg/L		1		A2320 B	03/16/11 22:44 / jba
Calcium	4	mg/L		1		E200.7	03/29/11 15:32 / cp
Chloride	366	mg/L	D	4		E300.0	03/22/11 16:52 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	03/17/11 12:19 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 15:32 / cp
Nitrogen, Ammonia as N	0.23	mg/L		0.05		A4500-NH3 G	03/18/11 15:31 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:49 / dc
Potassium	22	mg/L		1		E200.7	03/29/11 15:32 / cp
Silica	16.3	mg/L		0.2		E200.7	03/29/11 15:32 / cp
Sodium	401	mg/L		1		E200.7	03/29/11 15:32 / cp
Sulfate	73	mg/L	D	4		E300.0	03/18/11 10:05 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1850	umhos/cm		1		A2510 B	03/17/11 09:42 / lmc
pH	9.28	s.u.		0.01		A4500-H B	03/17/11 09:42 / lmc
Solids, Total Dissolved TDS @ 180 C	1040	mg/L		10		A2540 C	03/17/11 13:37 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/23/11 22:17 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/23/11 22:17 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 22:17 / sml
Boron	1.1	mg/L		0.1		E200.7	03/29/11 15:32 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 22:17 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 22:17 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 22:17 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:32 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 22:17 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 22:17 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 22:17 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 22:17 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 22:17 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 22:17 / sml
Uranium	0.0133	mg/L		0.0003		E200.8	03/23/11 22:17 / sml
Uranium, Activity	9.0E-09	uCi/mL		2.0E-10		E200.8	03/23/11 22:17 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 22:17 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 22:17 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:53 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:53 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-008
Client Sample ID: Monitor 9

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1	pCi/L		0.8		E909.0	04/16/11 01:12 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/16/11 01:12 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/16/11 01:12 / jb
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.83	pCi/L		0.14		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.20	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/30/11 03:07 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/30/11 03:07 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/30/11 03:07 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.26	%				Calculation	04/07/11 10:22 / kbh
Anions	17.8	meq/L				Calculation	04/07/11 10:22 / kbh
Cations	18.2	meq/L				Calculation	04/07/11 10:22 / kbh
Solids, Total Dissolved Calculated	1060	mg/L				Calculation	04/07/11 10:22 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	04/07/11 10:22 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-009
Client Sample ID: Monitor 10

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	300	mg/L		1		A2320 B	03/16/11 22:52 / jba
Carbonate as CO3	20	mg/L		1		A2320 B	03/16/11 22:52 / jba
Bicarbonate as HCO3	326	mg/L		1		A2320 B	03/16/11 22:52 / jba
Calcium	8	mg/L		1		E200.7	03/29/11 15:36 / cp
Chloride	226	mg/L		1		E300.0	03/18/11 10:21 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	03/17/11 12:23 / jba
Magnesium	1	mg/L		1		E200.7	03/29/11 15:36 / cp
Nitrogen, Ammonia as N	0.32	mg/L		0.05		A4500-NH3 G	03/18/11 15:39 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:51 / dc
Potassium	13	mg/L		1		E200.7	03/29/11 15:36 / cp
Silica	18.8	mg/L		0.2		E200.7	03/29/11 15:36 / cp
Sodium	451	mg/L		1		E200.7	03/29/11 15:36 / cp
Sulfate	346	mg/L	D	4		E300.0	03/18/11 10:21 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1950	umhos/cm		1		A2510 B	03/17/11 09:44 / lmc
pH	8.73	s.u.		0.01		A4500-H B	03/17/11 09:44 / lmc
Solids, Total Dissolved TDS @ 180 C	1210	mg/L		10		A2540 C	03/17/11 13:37 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/23/11 22:51 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/23/11 22:51 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 22:51 / sml
Boron	1.4	mg/L		0.1		E200.7	03/29/11 15:36 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 22:51 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 22:51 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 22:51 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:36 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 22:51 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 22:51 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 22:51 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 22:51 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 22:51 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 22:51 / sml
Uranium	0.0011	mg/L		0.0003		E200.8	03/23/11 22:51 / sml
Uranium, Activity	7.5E-10	uCi/mL		2.0E-10		E200.8	03/23/11 22:51 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 22:51 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 22:51 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 03:57 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 03:57 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-009
Client Sample ID: Monitor 10

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/16/11 03:24 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/16/11 03:24 / jb
Lead 210 MDC	0.8	pCi/L				E909.0	04/16/11 03:24 / jb
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.36	pCi/L		0.13		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/30/11 05:18 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/30/11 05:18 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/30/11 05:18 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.14	pCi/L	U	0.14		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.24	%				Calculation	04/07/11 10:22 / kbh
Anions	19.6	meq/L				Calculation	04/07/11 10:22 / kbh
Cations	20.5	meq/L				Calculation	04/07/11 10:22 / kbh
Solids, Total Dissolved Calculated	1250	mg/L				Calculation	04/07/11 10:22 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 10:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-010
Client Sample ID: Monitor 11

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	339	mg/L		1		A2320 B	03/16/11 23:01 / jba
Carbonate as CO ₃	76	mg/L		1		A2320 B	03/16/11 23:01 / jba
Bicarbonate as HCO ₃	260	mg/L		1		A2320 B	03/16/11 23:01 / jba
Calcium	5	mg/L		1		E200.7	03/29/11 15:49 / cp
Chloride	519	mg/L	D	4		E300.0	03/22/11 17:07 / ljl
Fluoride	0.9	mg/L		0.1		A4500-F C	03/17/11 12:31 / jba
Magnesium	ND	mg/L		1		E200.7	03/29/11 15:49 / cp
Nitrogen, Ammonia as N	0.26	mg/L		0.05		A4500-NH ₃ G	03/18/11 15:41 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/16/11 16:54 / dc
Potassium	31	mg/L		1		E200.7	03/29/11 15:49 / cp
Silica	16.3	mg/L		0.2		E200.7	03/29/11 15:49 / cp
Sodium	550	mg/L		1		E200.7	03/29/11 15:49 / cp
Sulfate	130	mg/L	D	4		E300.0	03/18/11 10:36 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2450	umhos/cm		1		A2510 B	03/17/11 09:45 / lmc
pH	9.49	s.u.		0.01		A4500-H B	03/17/11 09:45 / lmc
Solids, Total Dissolved TDS @ 180 C	1400	mg/L		10		A2540 C	03/17/11 13:37 / lmc
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.8	03/23/11 22:58 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/23/11 22:58 / sml
Barium	ND	mg/L		0.1		E200.8	03/23/11 22:58 / sml
Boron	1.4	mg/L		0.1		E200.7	03/29/11 15:49 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 22:58 / sml
Chromium	ND	mg/L		0.05		E200.8	03/23/11 22:58 / sml
Copper	ND	mg/L		0.01		E200.8	03/23/11 22:58 / sml
Iron	ND	mg/L		0.03		E200.7	03/29/11 15:49 / cp
Lead	ND	mg/L		0.001		E200.8	03/23/11 22:58 / sml
Manganese	ND	mg/L		0.01		E200.8	03/23/11 22:58 / sml
Mercury	ND	mg/L		0.001		E200.8	03/23/11 22:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/23/11 22:58 / sml
Nickel	ND	mg/L		0.05		E200.8	03/23/11 22:58 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/23/11 22:58 / sml
Uranium	0.0008	mg/L		0.0003		E200.8	03/23/11 22:58 / sml
Uranium, Activity	5.1E-10	uCi/mL		2.0E-10		E200.8	03/23/11 22:58 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/23/11 22:58 / sml
Zinc	ND	mg/L		0.01		E200.8	03/23/11 22:58 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 04:01 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 04:01 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030468-010
Client Sample ID: Monitor 11

Report Date: 05/06/11
Collection Date: 03/12/11
Date Received: 03/16/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/16/11 05:35 / jb
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/16/11 05:35 / jb
Lead 210 MDC	0.9	pCi/L				E909.0	04/16/11 05:35 / jb
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	03/22/11 13:15 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/22/11 13:15 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	03/22/11 13:15 / ep
Radium 226	0.25	pCi/L		0.14		E903.0	03/29/11 14:26 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	03/29/11 14:26 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/29/11 14:26 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/30/11 07:29 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/30/11 07:29 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/30/11 07:29 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/29/11 00:38 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	03/29/11 00:38 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/29/11 00:38 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/30/11 16:22 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/30/11 16:22 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/30/11 16:22 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.80	%				Calculation	04/07/11 10:22 / kbh
Anions	24.2	meq/L				Calculation	04/07/11 10:22 / kbh
Cations	25.0	meq/L				Calculation	04/07/11 10:22 / kbh
Solids, Total Dissolved Calculated	1460	mg/L				Calculation	04/07/11 10:22 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	04/07/11 10:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										
Batch: R143700										
Sample ID: MBLK	3	Method Blank								
Run: MANTECH_110316A										
Alkalinity, Total as CaCO3		2	mg/L	1						03/16/11 16:42
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		2	mg/L	1						
Sample ID: LCS		Laboratory Control Sample								
Run: MANTECH_110316A										
Alkalinity, Total as CaCO3		212	mg/L	5.0	105	90	110			03/16/11 16:55
Sample ID: C11030468-001BDUP	3	Sample Duplicate								
Run: MANTECH_110316A										
Alkalinity, Total as CaCO3		409	mg/L	5.0				0.7	10	03/16/11 21:43
Carbonate as CO3		13.3	mg/L	5.0				3.2	10	
Bicarbonate as HCO3		472	mg/L	5.0				0.9	10	
Sample ID: C11030468-010BDUP	3	Sample Duplicate								
Run: MANTECH_110316A										
Alkalinity, Total as CaCO3		344	mg/L	5.0				1.2	10	03/16/11 23:12
Carbonate as CO3		76.9	mg/L	5.0				1.8	10	
Bicarbonate as HCO3		263	mg/L	5.0				0.9	10	
Sample ID: C11030468-010BMS		Sample Matrix Spike								
Run: MANTECH_110316A										
Alkalinity, Total as CaCO3		475	mg/L	5.0	109	80	120			03/16/11 23:20

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110316B		
Sample ID: ICV2_110316_2	Initial Calibration Verification Standard									
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			03/16/11 12:37
Method: A2510 B								Batch: 110316_2_PH-W_555A-2		
Sample ID: MBLK1_110316_2	Method Blank									
Conductivity @ 25 C		0.7	umhos/cm	0.2						Run: ORION555A-2_110316B 03/16/11 12:34
Sample ID: C11030468-006BDUP	Sample Duplicate									
Conductivity @ 25 C		2320	umhos/cm	1.0				0.3	10	Run: ORION555A-2_110316B 03/16/11 14:07
Method: A2510 B								Analytical Run: ORION555A-2_110317A		
Sample ID: ICV2_110317_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			03/17/11 09:29
Method: A2510 B								Batch: 110317_1_PH-W_555A-2		
Sample ID: MBLK1_110317_1	Method Blank									
Conductivity @ 25 C		0.6	umhos/cm	0.2						Run: ORION555A-2_110317A 03/17/11 09:25
Sample ID: C11030475-001ADUP	Sample Duplicate									
Conductivity @ 25 C		1010	umhos/cm	1.0				0.1	10	Run: ORION555A-2_110317A 03/17/11 09:51

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R143800
Sample ID: MBLK1_		Method Blank					Run: BAL-1_110317B			03/17/11 13:30
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_		Laboratory Control Sample					Run: BAL-1_110317B			03/17/11 13:30
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C11030468-001ADUP		Sample Duplicate					Run: BAL-1_110317B			03/17/11 13:34
Solids, Total Dissolved TDS @ 180 C		853	mg/L	10				0.6	10	
Sample ID: C11030468-005AMS		Sample Matrix Spike					Run: BAL-1_110317B			03/17/11 13:36
Solids, Total Dissolved TDS @ 180 C		3280	mg/L	10	100	90	110			
Sample ID: C11030468-008ADUP		Sample Duplicate					Run: BAL-1_110317B			03/17/11 13:37
Solids, Total Dissolved TDS @ 180 C		1040	mg/L	10				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R143739
Sample ID: MBLK		Method Blank								Run: MANTECH_110317A
Fluoride		0.02	mg/L	0.008						03/17/11 09:46
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110317A
Fluoride		1.02	mg/L	0.10	100	90	110			03/17/11 09:49
Sample ID: C11030468-001BMS		Sample Matrix Spike								Run: MANTECH_110317A
Fluoride		1.68	mg/L	0.10	104	80	120			03/17/11 11:50
Sample ID: C11030468-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110317A
Fluoride		1.68	mg/L	0.10	104	80	120	0.0	10	03/17/11 11:53
Sample ID: C11030468-009BMS		Sample Matrix Spike								Run: MANTECH_110317A
Fluoride		1.75	mg/L	0.10	103	80	120			03/17/11 12:26
Sample ID: C11030468-009BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110317A
Fluoride		1.75	mg/L	0.10	103	80	120	0.0	10	03/17/11 12:29

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110316B		
Sample ID: ICV1_110316_2	Initial Calibration Verification Standard									
pH		6.93	s.u.	0.010	101	98	102			03/16/11 12:35
Method: A4500-H B								Batch: 110316_2_PH-W_555A-2		
Sample ID: C11030468-006BDUP	Sample Duplicate									
pH		9.19	s.u.	0.010				0.0	3	Run: ORION555A-2_110316B 03/16/11 14:07
Method: A4500-H B								Analytical Run: ORION555A-2_110317A		
Sample ID: ICV1_110317_1	Initial Calibration Verification Standard									
pH		6.90	s.u.	0.010	101	98	102			03/17/11 09:27
Method: A4500-H B								Batch: 110317_1_PH-W_555A-2		
Sample ID: C11030475-001ADUP	Sample Duplicate									
pH		7.77	s.u.	0.010				0.3	3	Run: ORION555A-2_110317A 03/17/11 09:51

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-NH3 G										Batch: R143829	
Sample ID: MBLK-4		Method Blank								Run: TECHNICON_110318A	03/18/11 14:33
Nitrogen, Ammonia as N		ND	mg/L	0.02							
Sample ID: LCS-5		Laboratory Control Sample								Run: TECHNICON_110318A	03/18/11 14:35
Nitrogen, Ammonia as N		1.95	mg/L	0.050	98	90	110				
Sample ID: C11030468-003GMS		Sample Matrix Spike								Run: TECHNICON_110318A	03/18/11 15:17
Nitrogen, Ammonia as N		2.05	mg/L	0.050	90	80	120				
Sample ID: C11030468-003GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110318A	03/18/11 15:19
Nitrogen, Ammonia as N		2.06	mg/L	0.050	91	80	120	0.5	10		
Sample ID: C11030468-010GMS		Sample Matrix Spike								Run: TECHNICON_110318A	03/18/11 15:49
Nitrogen, Ammonia as N		2.06	mg/L	0.050	90	80	120				
Sample ID: C11030468-010GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110318A	03/18/11 15:51
Nitrogen, Ammonia as N		2.07	mg/L	0.050	90	80	120	0.5	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144194										
Sample ID: MB-110329A	15	Method Blank				Run: ICP2-C_110329A				03/29/11 13:31
Aluminum		ND	mg/L	0.01						
Boron		0.02	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Potassium		ND	mg/L	0.02						
Silicon		ND	mg/L	0.007						
Sodium		ND	mg/L	0.3						
Vanadium		0.0003	mg/L							
Zinc		ND	mg/L	0.001						
Sample ID: LFB-110329A	15	Laboratory Fortified Blank				Run: ICP2-C_110329A				03/29/11 13:35
Aluminum		0.970	mg/L	0.10	97	85	115			
Boron		0.953	mg/L	0.10	94	85	115			
Calcium		48.9	mg/L	0.50	98	85	115			
Chromium		0.969	mg/L	0.050	97	85	115			
Copper		0.961	mg/L	0.010	96	85	115			
Iron		0.990	mg/L	0.030	99	85	115			
Magnesium		49.5	mg/L	0.50	99	85	115			
Manganese		0.973	mg/L	0.010	97	85	115			
Molybdenum		0.944	mg/L	0.10	94	85	115			
Nickel		0.966	mg/L	0.050	97	85	115			
Potassium		42.8	mg/L	0.50	86	85	115			
Silicon		0.411	mg/L	0.10	88	85	115			
Sodium		48.4	mg/L	0.50	97	85	115			
Vanadium		1.02	mg/L	0.10	102	85	115			
Zinc		0.975	mg/L	0.010	98	85	115			
Sample ID: C11030468-009CMS2	15	Sample Matrix Spike				Run: ICP2-C_110329A				03/29/11 15:40
Aluminum		2.02	mg/L	0.10	99	70	130			
Boron		3.33	mg/L	0.10	97	70	130			
Calcium		109	mg/L	1.0	99	70	130			
Chromium		1.96	mg/L	0.050	96	70	130			
Copper		2.00	mg/L	0.010	98	70	130			
Iron		2.02	mg/L	0.030	99	70	130			
Magnesium		103	mg/L	1.0	100	70	130			
Manganese		1.99	mg/L	0.010	97	70	130			
Molybdenum		1.93	mg/L	0.10	93	70	130			
Nickel		1.97	mg/L	0.050	97	70	130			
Potassium		102	mg/L	1.0	87	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7										Batch: R144194	
Sample ID: C11030468-009CMS2		15 Sample Matrix Spike			Run: ICP2-C_110329A				03/29/11 15:40		
Silicon		9.50	mg/L	0.10		70	130			A	
Sodium		540	mg/L	1.0		70	130			A	
Vanadium		2.05	mg/L	0.10	100	70	130				
Zinc		1.99	mg/L	0.010	97	70	130				
Sample ID: C11030468-009CMSD		15 Sample Matrix Spike Duplicate			Run: ICP2-C_110329A				03/29/11 15:45		
Aluminum		2.03	mg/L	0.10	99	70	130	0.5	20		
Boron		3.41	mg/L	0.10	101	70	130	2.5	20		
Calcium		110	mg/L	1.0	99	70	130	0.4	20		
Chromium		1.98	mg/L	0.050	97	70	130	1.1	20		
Copper		2.00	mg/L	0.010	98	70	130	0.1	20		
Iron		2.03	mg/L	0.030	99	70	130	0.6	20		
Magnesium		102	mg/L	1.0	99	70	130	0.4	20		
Manganese		2.00	mg/L	0.010	98	70	130	0.4	20		
Molybdenum		1.96	mg/L	0.10	95	70	130	1.7	20		
Nickel		1.99	mg/L	0.050	98	70	130	1.2	20		
Potassium		102	mg/L	1.0	87	70	130	0.2	20		
Silicon		9.53	mg/L	0.10		70	130	0.4	20	A	
Sodium		545	mg/L	1.0		70	130	0.8	20	A	
Vanadium		2.08	mg/L	0.10	102	70	130	1.7	20		
Zinc		2.00	mg/L	0.010	97	70	130	0.3	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29300
Sample ID: MB-29300		Method Blank								Run: ICPMS2-C_110318A 03/19/11 02:22
Uranium		0.0004	mg/L	6E-05						
Sample ID: LCS2-29300		Laboratory Control Sample								Run: ICPMS2-C_110318A 03/19/11 02:26
Uranium		0.0980	mg/L	0.00030	98	85	115			
Sample ID: C11030468-010HMS		Sample Matrix Spike								Run: ICPMS2-C_110318A 03/19/11 04:05
Uranium		0.00454	mg/L	0.00030	102	70	130			
Sample ID: C11030468-010HMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_110318A 03/19/11 04:09
Uranium		0.00452	mg/L	0.00030	102	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R143967										
Sample ID: LRB	15	Method Blank								
Run: ICPMS2-C_110323A										
03/23/11 12:03										
Aluminum		ND	mg/L	0.0001						
Arsenic		7E-05	mg/L	6E-05						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	8E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Selenium		0.0004	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	15	Laboratory Fortified Blank								
Run: ICPMS2-C_110323A										
03/23/11 12:10										
Aluminum		0.0558	mg/L	0.0010	112	85	115			
Arsenic		0.0528	mg/L	0.0010	105	85	115			
Barium		0.0552	mg/L	0.0010	110	85	115			
Cadmium		0.0534	mg/L	0.0010	107	85	115			
Chromium		0.0538	mg/L	0.0010	108	85	115			
Copper		0.0534	mg/L	0.0010	107	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Manganese		0.0536	mg/L	0.0010	107	85	115			
Mercury		0.00539	mg/L	0.0010	108	85	115			
Molybdenum		0.0516	mg/L	0.0010	103	85	115			
Nickel		0.0535	mg/L	0.0010	107	85	115			
Selenium		0.0523	mg/L	0.0010	104	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Vanadium		0.0534	mg/L	0.0010	107	85	115			
Zinc		0.0546	mg/L	0.0010	109	85	115			
Sample ID: C11030468-002CMS4	15	Sample Matrix Spike								
Run: ICPMS2-C_110323A										
03/23/11 19:34										
Aluminum		0.475	mg/L	0.10	716	70	130			S
Arsenic		0.0570	mg/L	0.0010	108	70	130			
Barium		0.0934	mg/L	0.0010	104	70	130			
Cadmium		0.0486	mg/L	0.010	97	70	130			
Chromium		0.0493	mg/L	0.0010	83	70	130			
Copper		0.0559	mg/L	0.010	104	70	130			
Lead		0.0542	mg/L	0.050	107	70	130			
Manganese		0.0503	mg/L	0.010	90	70	130			
Mercury		0.00520	mg/L	0.0010	104	70	130			
Molybdenum		0.0646	mg/L	0.0010	109	70	130			
Nickel		0.0536	mg/L	0.050	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: R143967										
Sample ID: C11030468-002CMS4 15 Sample Matrix Spike Run: ICPMS2-C_110323A 03/23/11 19:34										
Selenium		0.0509	mg/L	0.0010	97	70	130			
Uranium		0.0581	mg/L	0.00030	110	70	130			
Vanadium		0.0510	mg/L	0.0010	97	70	130			
Zinc		0.0611	mg/L	0.010	99	70	130			
Sample ID: C11030468-002CMSD 15 Sample Matrix Spike Duplicate Run: ICPMS2-C_110323A 03/23/11 19:41										
Aluminum		0.466	mg/L	0.10	699	70	130	1.9	20	S
Arsenic		0.0541	mg/L	0.0010	102	70	130	5.2	20	
Barium		0.0934	mg/L	0.0010	103	70	130	0.0	20	
Cadmium		0.0474	mg/L	0.010	95	70	130	2.5	20	
Chromium		0.0484	mg/L	0.0010	81	70	130	1.8	20	
Copper		0.0543	mg/L	0.010	101	70	130	3.0	20	
Lead		0.0528	mg/L	0.050	105	70	130	2.7	20	
Manganese		0.0504	mg/L	0.010	90	70	130	0.3	20	
Mercury		0.00502	mg/L	0.0010	100	70	130	3.6	20	
Molybdenum		0.0620	mg/L	0.0010	104	70	130	4.1	20	
Nickel		0.0525	mg/L	0.050	105	70	130	2.1	20	
Selenium		0.0492	mg/L	0.0010	94	70	130	3.5	20	
Uranium		0.0565	mg/L	0.00030	106	70	130	2.9	20	
Vanadium		0.0495	mg/L	0.0010	94	70	130	2.9	20	
Zinc		0.0597	mg/L	0.010	97	70	130	2.4	20	
Method: E200.8 Batch: R144159										
Sample ID: LRB 2 Method Blank Run: ICPMS2-C_110328A 03/28/11 22:22										
Arsenic		ND	mg/L	6E-05						
Selenium		0.0003	mg/L	0.0002						
Sample ID: LFB 2 Laboratory Fortified Blank Run: ICPMS2-C_110328A 03/28/11 22:29										
Arsenic		0.0495	mg/L	0.0010	99	85	115			
Selenium		0.0492	mg/L	0.0010	98	85	115			
Sample ID: C11030539-001AMS4 2 Sample Matrix Spike Run: ICPMS2-C_110328A 03/29/11 23:43										
Arsenic		0.0538	mg/L	0.0010	108	70	130			
Selenium		0.0843	mg/L	0.0010	103	70	130			
Sample ID: C11030539-001AMSD 2 Sample Matrix Spike Duplicate Run: ICPMS2-C_110328A 03/29/11 23:50										
Arsenic		0.0542	mg/L	0.0010	108	70	130	0.7	20	
Selenium		0.0846	mg/L	0.0010	103	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										
Batch: R143828										
Sample ID: LCS	2	Laboratory Control Sample					Run: IC2-C_110317A			03/17/11 10:13
Chloride		10.2	mg/L	1.0	102	90	110			
Sulfate		40.5	mg/L	1.0	101	90	110			
Sample ID: MBLK	2	Method Blank					Run: IC2-C_110317A			03/17/11 10:29
Chloride		ND	mg/L	0.06						
Sulfate		0.2	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank					Run: IC2-C_110317A			03/17/11 11:00
Chloride		12.4	mg/L	1.0	99	90	110			
Sulfate		50.8	mg/L	1.0	101	90	110			
Sample ID: C11030468-001BMS	2	Sample Matrix Spike					Run: IC2-C_110317A			03/17/11 23:35
Chloride		223	mg/L	1.0	89	80	120			
Sulfate		256	mg/L	4.0	100	80	120			
Sample ID: C11030468-001BMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110317A			03/17/11 23:51
Chloride		225	mg/L	1.0	93	80	120	0.9	10	
Sulfate		261	mg/L	4.0	103	80	120	2.0	10	
Sample ID: C11030468-007BMS	2	Sample Matrix Spike					Run: IC2-C_110317A			03/18/11 09:34
Chloride		301	mg/L	1.0		80	120			A
Sulfate		572	mg/L	4.0	93	80	120			
Sample ID: C11030468-007BMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110317A			03/18/11 09:50
Chloride		301	mg/L	1.0		80	120	0.1	10	A
Sulfate		571	mg/L	4.0	93	80	120	0.1	10	
Method: E300.0										
Batch: R143963										
Sample ID: LCS		Laboratory Control Sample					Run: IC2-C_110322A			03/22/11 13:32
Chloride		9.89	mg/L	1.0	99	90	110			
Sample ID: MBLK		Method Blank					Run: IC2-C_110322A			03/22/11 13:47
Chloride		ND	mg/L	0.06						
Sample ID: LFB		Laboratory Fortified Blank					Run: IC2-C_110322A			03/22/11 14:18
Chloride		12.7	mg/L	1.0	101	90	110			
Sample ID: C11030468-003BMS		Sample Matrix Spike					Run: IC2-C_110322A			03/22/11 15:20
Chloride		384	mg/L	2.0	102	80	120			
Sample ID: C11030468-003BMSD		Sample Matrix Spike Duplicate					Run: IC2-C_110322A			03/22/11 15:35
Chloride		381	mg/L	2.0	99	80	120	0.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R143696
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_110316A 03/16/11 12:09
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.61	mg/L	0.10	104	90	110			Run: TECHNICON_110316A 03/16/11 12:11
Sample ID: C11030468-010GMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 1.92	mg/L	0.10	98	90	110			Run: TECHNICON_110316A 03/16/11 16:56
Sample ID: C11030468-010GMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 1.92	mg/L	0.10	98	90	110	0.0	10	Run: TECHNICON_110316A 03/16/11 16:59

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5250		
Sample ID: C11030468-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-1_110321A		03/29/11 12:24		
Radium 226		23	pCi/L		53	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the RPD for the MS MSD pair are acceptable, the response is considered to be matrix related. The batch is approved.										
Sample ID: C11030468-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_110321A		03/29/11 14:26		
Radium 226		22	pCi/L		45	70	130	4.6	20.3	S
Sample ID: MB-RA226-5250	3	Method Blank				Run: BERTHOLD 770-1_110321A		03/29/11 16:46		
Radium 226		-0.06	pCi/L							U
Radium 226 precision (±)		0.05	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5250		Laboratory Control Sample				Run: BERTHOLD 770-1_110321A		03/29/11 16:46		
Radium 226		6.2	pCi/L		100	85	115			
Method: E903.0								Batch: 29300		
Sample ID: C11030468-004HMS		Sample Matrix Spike				Run: BERTHOLD 770-2_110322A		03/28/11 21:54		
Radium 226		9.0	pCi/L		87	70	130			
Sample ID: C11030468-004HMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-2_110322A		03/29/11 00:38		
Radium 226		8.6	pCi/L		84	70	130	4.2	27.9	
Sample ID: LCS-29300		Laboratory Control Sample				Run: BERTHOLD 770-2_110322A		03/29/11 00:38		
Radium 226		11	pCi/L		94	85	115			
Sample ID: MB-29300	3	Method Blank				Run: BERTHOLD 770-2_110322A		03/29/11 00:38		
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: 29300
Sample ID: C11030468-005HMS		Sample Matrix Spike								Run: EGG-ORTEC_110328D 03/30/11 16:22
Thorium 230		8.7	pCi/L	102		70	130			
Sample ID: C11030468-005HMSD		Sample Matrix Spike Duplicate								Run: EGG-ORTEC_110328D 03/30/11 16:22
Thorium 230		7.9	pCi/L	94		70	130	9.6	46.6	
Sample ID: LCS-29300		Laboratory Control Sample								Run: EGG-ORTEC_110328D 03/30/11 16:22
Thorium 230		11	pCi/L	113		70	130			
Sample ID: MB-29300	3	Method Blank								Run: EGG-ORTEC_110328D 03/30/11 16:22
Thorium 230		-0.2	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E908.0										Batch: RA-TH-ISO-1355
Sample ID: LCS-RA-TH-ISO-1355		Laboratory Control Sample								Run: EGG-ORTEC_110329B 03/31/11 16:17
Thorium 230		5.4	pCi/L	92		70	130			
Sample ID: C11030468-001DMS		Sample Matrix Spike								Run: EGG-ORTEC_110329B 03/31/11 16:17
Thorium 230		13	pCi/L	96		70	130			
Sample ID: C11030468-001DMSD		Sample Matrix Spike Duplicate								Run: EGG-ORTEC_110329B 03/31/11 16:17
Thorium 230		13	pCi/L	100		70	130	3.3	35.6	
Sample ID: MB-RA-TH-ISO-1355	3	Method Blank								Run: EGG-ORTEC_110329B 04/01/11 08:43
Thorium 230		0.04	pCi/L							U
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0093		
Sample ID: TAP WATERMSD	Sample Matrix Spike Duplicate			Run: SUB-T39963			04/15/11 05:29			
Lead 210	57	pCi/L		103	70	130	27	16.4	R	
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.										
Sample ID: TAP WATERMS	Sample Matrix Spike			Run: SUB-T39963			04/15/11 03:18			
Lead 210	44	pCi/L		78	70	130				
Sample ID: LCS-PB-210-0093	Laboratory Control Sample			Run: SUB-T39963			04/14/11 22:55			
Lead 210	58	pCi/L		103	70	130				
Sample ID: MB-PB-210-0093	3	Method Blank		Run: SUB-T39963			04/14/11 20:43			
Lead 210		2	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Method: E909.0								Batch: T_13600		
Sample ID: T11030079-001HMSD	Sample Matrix Spike Duplicate			Run: SUB-T40146			04/29/11 03:01			
Lead 210	53	pCi/L		85	70	130	4.2	16.3		
Sample ID: MB-13600 / 29300	3	Method Blank		Run: SUB-T40146			04/28/11 18:15			
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		6	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-13600 / 29300	Laboratory Control Sample			Run: SUB-T40146			04/28/11 20:26			
Lead 210	300	pCi/L		84	70	130				
Sample ID: T11030079-001HMS	Sample Matrix Spike			Run: SUB-T40146			04/29/11 00:49			
Lead 210	56	pCi/L		89	70	130				

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 05/06/11
Work Order: C11030468

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: PO210-0353										
Sample ID: C11030468-010FMS		Sample Matrix Spike								
Polonium 210		15	pCi/L	114		70	130			03/22/11 13:15
Sample ID: C11030468-010FMSD		Sample Matrix Spike Duplicate								
Polonium 210		14	pCi/L	105		70	130	8.5	71.6	03/22/11 13:15
Sample ID: MB-PO210-0353	3	Method Blank								
Polonium 210		-0.01	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0353		Laboratory Control Sample								
Polonium 210		6.5	pCi/L	102		70	130			03/22/11 13:15
Method: E912.0										
Batch: 29300										
Sample ID: C11030399-001EMS		Sample Matrix Spike								
Polonium 210		5.5	pCi/L	102		70	130			03/23/11 09:05
Sample ID: C11030399-001EMSD		Sample Matrix Spike Duplicate								
Polonium 210		4.6	pCi/L	85		70	130	18	75.5	03/23/11 09:05
Sample ID: LCS-29300		Laboratory Control Sample								
Polonium 210		30	pCi/L	96		70	130			03/23/11 11:24
Sample ID: MB-29300	3	Method Blank								
Polonium 210		0.8	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030468

Login completed by: Corinne Wagner

Date Received: 3/16/2011

Reviewed by: BL2000\tedwards

Received by: ha

Reviewed Date: 3/18/2011

Carrier Ground name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 7.8°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples for dissolved/suspended radiochemistry were subsampled, filtered and preserved with 2 mL HNO3 in lab upon receipt to pH <2.



Chain of Custody and Analytical Request Record

Company Name: Crow Butte Resources, Inc.
Project Name: Marsland G-8 Samples
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Phone/Fax: 308-665-2341
Contact Name: Larry Teahon
Email: daxmynus@msn.com
Invoice Address: P.O. Box 169, Crawford, NE 69339
Special Report/Formats - ELI must be notified prior to sample submittal for the following:
 DW A2LA
 GSA EDD/EDT (Electronic Data)
 POT/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Company Name: Energy Laboratories
Project Name: Marsland G-8 Samples
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Phone/Fax: 308-665-2341
Contact Name: Larry Teahon
Email: daxmynus@msn.com
Invoice Address: P.O. Box 169, Crawford, NE 69339
Special Report/Formats - ELI must be notified prior to sample submittal for the following:
 DW A2LA
 GSA EDD/EDT (Electronic Data)
 POT/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Sample Identification Table:

Monitor #	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers Sample Type: AWSVB Ar Water Soils/Solids Vegetation Biossay Other	RAW-F, Common Ions	RAW-F, Alkalinity	H2SO4-F, NO2, NO3, NH4	RAW-F, Pb210 dis and sus	RAW-F, Th230, U-nat dis and sus	ANALYSIS REQUESTED	Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler ID(s):	Receipt Temp	On Ice:	Custody Seal Intact	Signature Match
1	Monitor 1	3/12/11		Water	5	1	1	.5	1	1	SEE ATTACHED		RUSH	UPS GAD	7.8 °C	(Yes)	No	
2	Monitor 2	3/12/11		Water	.5	1	1	.5	1	1								
3	Monitor 4A	3/12/11		Water	.5	1	1	.5	1	1								
4	Monitor 5	3/12/11		Water	.5	1	1	.5	1	1								
5	Monitor 6	3/12/11		Water	.5	1	1	.5	1	1								
6	Monitor 7	3/12/11		Water	.5	1	1	.5	1	1								
7	Monitor 8	3/12/11		Water	.5	1	1	.5	1	1								
8	Monitor 9	3/12/11		Water	.5	1	1	.5	1	1								
9	Monitor 10	3/12/11		Water	.5	1	1	.5	1	1								
10	Monitor 11	3/12/11		Water	.5	1	1	.5	1	1								

Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L.
Please report 4/20/11

Shipped by: UPS GAD
Cooler ID(s): Various
Receipt Temp: 7.8 °C
On Ice: (Yes) No
Custody Seal Intact: Y N
Signature Match: Y N

Project Name: Marsland G-8 Samples
Sample Origin State: _____
Invoice Contact & Phone: Larry Teahon, 308-665-2215 ext 114
Purchase Order: 1125
Quote/Bottle Order: _____
Sample Disposal: Return to Client: No Lab Disposal: YES
Received by (print): Rhonda Pelton Date/Time: 3-14-11 10:55
Received by (print): _____ Date/Time: _____
Received by Laboratory: _____ Date/Time: 3-16-11 9:15
Signature: _____ **Signature:** _____
Signature: _____ **Signature:** _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO2

DATE: 3/12/11

ANALYST: ht

STANDARD CURVE DATA

	BL	0.01	0.05	0.1		
Abs		.038	.177	.347		
Abs						

SAMPLE #	VOLUME	Df	Abs	NO2 mg/L
Maisland Muster 1	10ml	1	.062	0.02
2	10ml		.005	20.01
3	4A 10ml		.005	20.01
4	5 10ml		.006	20.01
5	6 10ml		.007	20.01
Dup 7	10ml		.005	20.01
6	8 10ml		.010	20.01
7	9 10ml		.004	20.01
8	10 10ml		.017	20.01
9	11 10ml		.012	20.01
10				
Dup Dup 1	10ml		.062	20.01
11	Dup 4A 10ml		.005	20.01
12	Dup 7 10ml		.006	20.01
13	Dup 10 10ml		.016	20.01
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

May 05, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030396 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Expansion Project

Energy Laboratories, Inc. Casper WY received the following 2 samples for Crow Butte Resources on 3/14/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030396-001	E. Driller's Well	03/11/11 0:00	03/14/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030396-002	W. Driller's Well	03/11/11 0:00	03/14/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Expansion Project
Sample Delivery Group: C11030396

Report Date: 05/05/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project
Lab ID: C11030396-001
Client Sample ID: E. Driller's Well

Report Date: 05/05/11
Collection Date: 03/11/11
Date Received: 03/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	156	mg/L		1		A2320 B	03/14/11 19:03 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/14/11 19:03 / jba
Bicarbonate as HCO ₃	191	mg/L		1		A2320 B	03/14/11 19:03 / jba
Calcium	33	mg/L		1		E200.7	03/15/11 16:21 / rdw
Chloride	3	mg/L		1		E300.0	03/16/11 05:14 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	03/17/11 10:10 / jba
Magnesium	8	mg/L		1		E200.7	03/15/11 16:21 / rdw
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/17/11 15:37 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/23/11 17:56 / dc
Potassium	3	mg/L		1		E200.7	03/15/11 16:21 / rdw
Silica	80.9	mg/L		0.2		E200.7	03/15/11 16:21 / rdw
Sodium	18	mg/L		1		E200.7	03/15/11 16:21 / rdw
Sulfate	7	mg/L		1		E300.0	03/16/11 05:14 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	304	umhos/cm		1		A2510 B	03/14/11 14:44 / lmc
pH	7.98	s.u.		0.01		A4500-H B	03/14/11 14:44 / lmc
Solids, Total Dissolved TDS @ 180 C	239	mg/L		10		A2540 C	03/15/11 09:03 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/15/11 16:21 / rdw
Arsenic	0.002	mg/L		0.001		E200.8	04/04/11 16:38 / sml
Barium	0.1	mg/L		0.1		E200.7	03/15/11 16:21 / rdw
Boron	ND	mg/L		0.1		E200.7	03/15/11 16:21 / rdw
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 18:40 / sml
Chromium	ND	mg/L		0.05		E200.7	03/28/11 14:45 / cp
Copper	ND	mg/L		0.01		E200.7	03/28/11 14:45 / cp
Iron	ND	mg/L		0.03		E200.7	03/15/11 16:21 / rdw
Lead	ND	mg/L		0.001		E200.8	03/23/11 18:40 / sml
Manganese	ND	mg/L		0.01		E200.7	03/28/11 14:45 / cp
Mercury	ND	mg/L		0.001		E200.8	03/23/11 18:40 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/28/11 14:45 / cp
Nickel	ND	mg/L		0.05		E200.7	03/28/11 14:45 / cp
Selenium	0.002	mg/L		0.001		E200.8	04/04/11 16:38 / sml
Uranium	0.0088	mg/L		0.0003		E200.8	03/23/11 18:40 / sml
Uranium, Activity	5.9E-09	uCi/mL		2.0E-10		E200.8	03/23/11 18:40 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/28/11 14:45 / cp
Zinc	0.02	mg/L		0.01		E200.7	03/15/11 16:21 / rdw
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 02:34 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 02:34 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project
Lab ID: C11030396-001
Client Sample ID: E. Driller's Well

Report Date: 05/05/11
Collection Date: 03/11/11
Date Received: 03/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	03/25/11 18:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	03/25/11 18:53 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	03/25/11 18:53 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/17/11 13:06 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/17/11 13:06 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/17/11 13:06 / ep
Radium 226	2.6	pCi/L		0.14		E903.0	03/21/11 20:55 / trs
Radium 226 precision (±)	0.32	pCi/L				E903.0	03/21/11 20:55 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	03/21/11 20:55 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 09:27 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	03/25/11 09:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 09:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/28/11 22:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/28/11 22:38 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/28/11 22:38 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.22	pCi/L	U	0.22		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.22	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	03/30/11 11:19 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/30/11 11:19 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	03/30/11 11:19 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.14	%				Calculation	04/07/11 10:01 / kbh
Anions	3.45	meq/L				Calculation	04/07/11 10:01 / kbh
Cations	3.24	meq/L				Calculation	04/07/11 10:01 / kbh
Solids, Total Dissolved Calculated	274	mg/L				Calculation	04/07/11 10:01 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	04/07/11 10:01 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project
Lab ID: C11030396-002
Client Sample ID: W. Driller's Well

Report Date: 05/05/11
Collection Date: 03/11/11
Date Received: 03/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	150	mg/L		1		A2320 B	03/14/11 19:11 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/14/11 19:11 / jba
Bicarbonate as HCO ₃	183	mg/L		1		A2320 B	03/14/11 19:11 / jba
Calcium	27	mg/L		1		E200.7	03/15/11 16:25 / rdw
Chloride	3	mg/L		1		E300.0	03/16/11 05:29 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/17/11 10:18 / jba
Magnesium	6	mg/L		1		E200.7	03/15/11 16:25 / rdw
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/17/11 15:39 / dc
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	03/23/11 17:59 / dc
Potassium	4	mg/L		1		E200.7	03/15/11 16:25 / rdw
Silica	82.4	mg/L		0.2		E200.7	03/15/11 16:25 / rdw
Sodium	32	mg/L		1		E200.7	03/15/11 16:25 / rdw
Sulfate	14	mg/L		1		E300.0	03/16/11 05:29 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	310	umhos/cm		1		A2510 B	03/14/11 14:46 / lmc
pH	8.03	s.u.		0.01		A4500-H B	03/14/11 14:46 / lmc
Solids, Total Dissolved TDS @ 180 C	257	mg/L		10		A2540 C	03/15/11 09:04 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/15/11 16:25 / rdw
Arsenic	0.006	mg/L		0.001		E200.8	03/23/11 18:47 / sml
Barium	ND	mg/L		0.1		E200.7	03/15/11 16:25 / rdw
Boron	ND	mg/L		0.1		E200.7	03/15/11 16:25 / rdw
Cadmium	ND	mg/L		0.005		E200.8	03/23/11 18:47 / sml
Chromium	ND	mg/L		0.05		E200.7	03/28/11 14:49 / cp
Copper	ND	mg/L		0.01		E200.7	03/28/11 14:49 / cp
Iron	ND	mg/L		0.03		E200.7	03/15/11 16:25 / rdw
Lead	ND	mg/L		0.001		E200.8	03/23/11 18:47 / sml
Manganese	ND	mg/L		0.01		E200.7	03/28/11 14:49 / cp
Mercury	ND	mg/L		0.001		E200.8	03/23/11 18:47 / sml
Molybdenum	ND	mg/L		0.1		E200.7	03/28/11 14:49 / cp
Nickel	ND	mg/L		0.05		E200.7	03/28/11 14:49 / cp
Selenium	0.002	mg/L		0.001		E200.8	03/23/11 18:47 / sml
Uranium	0.0060	mg/L		0.0003		E200.8	03/23/11 18:47 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	03/23/11 18:47 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/28/11 14:49 / cp
Zinc	0.02	mg/L		0.01		E200.7	03/28/11 14:49 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/19/11 02:55 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/19/11 02:55 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project
Lab ID: C11030396-002
Client Sample ID: W. Driller's Well

Report Date: 05/05/11
Collection Date: 03/11/11
Date Received: 03/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	03/25/11 21:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	03/25/11 21:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	03/25/11 21:05 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/17/11 13:06 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/17/11 13:06 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/17/11 13:06 / ep
Radium 226	0.97	pCi/L		0.13		E903.0	03/21/11 20:55 / trs
Radium 226 precision (±)	0.20	pCi/L				E903.0	03/21/11 20:55 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/21/11 20:55 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 09:27 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/25/11 09:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 09:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/29/11 05:12 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/29/11 05:12 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/29/11 05:12 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/23/11 09:05 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	03/23/11 09:05 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/23/11 09:05 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	03/28/11 21:54 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	03/28/11 21:54 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	03/28/11 21:54 / trs
Thorium 230	<0.09	pCi/L	U	0.09		E908.0	03/30/11 11:20 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	03/30/11 11:20 / dmf
Thorium 230 MDC	0.09	pCi/L				E908.0	03/30/11 11:20 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.85	%				Calculation	04/07/11 10:02 / kbh
Anions	3.47	meq/L				Calculation	04/07/11 10:02 / kbh
Cations	3.35	meq/L				Calculation	04/07/11 10:02 / kbh
Solids, Total Dissolved Calculated	285	mg/L				Calculation	04/07/11 10:02 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	04/07/11 10:02 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual									
Method: A2320 B										Batch: R143587									
Sample ID: MBLK										3 Method Blank									
Alkalinity, Total as CaCO3										3 mg/L	1	Run: MANTECH_110314A	03/14/11 15:51						
Carbonate as CO3										ND	1								
Bicarbonate as HCO3										4	1								
Sample ID: LCS										Laboratory Control Sample									
Alkalinity, Total as CaCO3										212	mg/L	5.0	104	90	110	Run: MANTECH_110314A	03/14/11 16:05		
Sample ID: C11030376-010ADUP										3 Sample Duplicate									
Alkalinity, Total as CaCO3										315	mg/L	5.0				0.3	10	Run: MANTECH_110314A	03/14/11 18:07
Carbonate as CO3										ND	mg/L	5.0				10			
Bicarbonate as HCO3										385	mg/L	5.0				0.3	10		
Sample ID: C11030376-010AMS										Sample Matrix Spike									
Alkalinity, Total as CaCO3										451	mg/L	5.0	109	80	120	Run: MANTECH_110314A	03/14/11 18:15		

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110314B		
Sample ID: ICV2_110314_2	Initial Calibration Verification Standard									03/14/11 14:13
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 110314_2_PH-W_555A-2		
Sample ID: MBLK1_110314_2	Method Blank									Run: ORION555A-2_110314B 03/14/11 14:10
Conductivity @ 25 C		0.5	umhos/cm	0.2						
Sample ID: C11030396-002BDUP	Sample Duplicate									Run: ORION555A-2_110314B 03/14/11 14:47
Conductivity @ 25 C		311	umhos/cm	1.0				0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R143680
Sample ID: MBLK1_		Method Blank					Run: BAL-1_110315B			03/15/11 08:58
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_		Laboratory Control Sample					Run: BAL-1_110315B			03/15/11 08:58
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C11030396-001ADUP		Sample Duplicate					Run: BAL-1_110315B			03/15/11 09:04
Solids, Total Dissolved TDS @ 180 C		242	mg/L	10				1.3	10	
Sample ID: C11030396-002AMS		Sample Matrix Spike					Run: BAL-1_110315B			03/15/11 09:04
Solids, Total Dissolved TDS @ 180 C		2280	mg/L	10	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-F C										Batch: R143739	
Sample ID: MBLK		Method Blank								Run: MANTECH_110317A	03/17/11 09:46
Fluoride		0.02	mg/L	0.008							
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110317A	03/17/11 09:49
Fluoride		1.02	mg/L	0.10	100	90	110				
Sample ID: C11030396-001BMS		Sample Matrix Spike								Run: MANTECH_110317A	03/17/11 10:13
Fluoride		1.59	mg/L	0.10	106	80	120				
Sample ID: C11030396-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110317A	03/17/11 10:15
Fluoride		1.59	mg/L	0.10	106	80	120	0.0	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110314B		
Sample ID: ICV1_110314_2		Initial Calibration Verification Standard						03/14/11 14:11		
pH		6.90	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110314_2_PH-W_555A-2		
Sample ID: C11030396-002BDUP		Sample Duplicate				Run: ORION555A-2_110314B		03/14/11 14:47		
pH		8.02	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R143734
Sample ID: LCS-5										
Laboratory Control Sample										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:11
		1.94	mg/L	0.050	97	90	110			
Sample ID: C11030323-002DMS										
Sample Matrix Spike										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:23
		1.76	mg/L	0.050	88	80	120			
Sample ID: C11030323-002DMSD										
Sample Matrix Spike Duplicate										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 15:27
		1.83	mg/L	0.050	91	80	120	3.9	10	
Sample ID: MBLK-35										
Method Blank										Run: TECHNICON_110317A
Nitrogen, Ammonia as N										03/17/11 16:13
		ND	mg/L	0.02						

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/05/11

Project: Marsland Expansion Project

Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R143647
Sample ID: MB-110315A	10	Method Blank					Run: ICP2-C_110315A			03/15/11 11:56
Aluminum		0.01	mg/L	0.01						
Barium		0.003	mg/L	0.0005						
Boron		0.02	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.02						
Silicon		0.010	mg/L	0.007						
Sodium		ND	mg/L	0.3						
Zinc		0.005	mg/L	0.001						
Sample ID: LFB-110315A	10	Laboratory Fortified Blank					Run: ICP2-C_110315A			03/15/11 12:01
Aluminum		0.900	mg/L	0.10	87	85	115			
Barium		0.950	mg/L	0.10	93	85	115			
Boron		0.949	mg/L	0.10	91	85	115			
Calcium		48.1	mg/L	0.50	94	85	115			
Iron		0.957	mg/L	0.030	94	85	115			
Magnesium		47.3	mg/L	0.50	93	85	115			
Potassium		43.5	mg/L	0.50	85	85	115			
Silicon		0.442	mg/L	0.10	90	85	115			
Sodium		47.7	mg/L	0.50	93	85	115			
Zinc		0.948	mg/L	0.010	92	85	115			
Sample ID: C11030346-001CMS2	10	Sample Matrix Spike					Run: ICP2-C_110315A			03/15/11 15:37
Aluminum		1.83	mg/L	0.10	87	70	130			
Barium		1.96	mg/L	0.10	95	70	130			
Boron		2.01	mg/L	0.10	93	70	130			
Calcium		99.2	mg/L	1.0	92	70	130			
Iron		1.91	mg/L	0.030	94	70	130			
Magnesium		89.5	mg/L	1.0	88	70	130			
Potassium		94.7	mg/L	1.0	81	70	130			
Silicon		49.3	mg/L	0.10		70	130			A
Sodium		241	mg/L	1.0	95	70	130			
Zinc		1.89	mg/L	0.010	91	70	130			
Sample ID: C11030346-001CMSD	10	Sample Matrix Spike Duplicate					Run: ICP2-C_110315A			03/15/11 15:41
Aluminum		1.83	mg/L	0.10	88	70	130	0.2	20	
Barium		1.96	mg/L	0.10	95	70	130	0.2	20	
Boron		2.04	mg/L	0.10	95	70	130	1.3	20	
Calcium		97.6	mg/L	1.0	91	70	130	1.6	20	
Iron		1.85	mg/L	0.030	91	70	130	3.3	20	
Magnesium		88.2	mg/L	1.0	86	70	130	1.4	20	
Potassium		95.5	mg/L	1.0	82	70	130	0.8	20	
Silicon		48.4	mg/L	0.10		70	130	1.8	20	A
Sodium		236	mg/L	1.0	89	70	130	2.4	20	
Zinc		1.84	mg/L	0.010	89	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R144155
Sample ID: MB-110328A	7	Method Blank					Run: ICP2-C_110328A			03/28/11 13:07
Chromium		ND	mg/L	0.002						
Copper		ND	mg/L	0.001						
Manganese		ND	mg/L	0.0004						
Molybdenum		ND	mg/L	0.005						
Nickel		ND	mg/L	0.003						
Vanadium		0.0001	mg/L							
Zinc		ND	mg/L	0.001						
Sample ID: LFB-110328A	7	Laboratory Fortified Blank					Run: ICP2-C_110328A			03/28/11 13:11
Chromium		0.948	mg/L	0.050	95	85	115			
Copper		0.940	mg/L	0.010	94	85	115			
Manganese		0.940	mg/L	0.010	94	85	115			
Molybdenum		0.964	mg/L	0.10	96	85	115			
Nickel		0.989	mg/L	0.050	99	85	115			
Vanadium		0.981	mg/L	0.10	98	85	115			
Zinc		0.964	mg/L	0.010	96	85	115			
Sample ID: C11030523-001BMS2	7	Sample Matrix Spike					Run: ICP2-C_110328A			03/28/11 14:16
Chromium		48.7	mg/L	0.093	96	70	130			
Copper		49.3	mg/L	0.074	97	70	130			
Manganese		50.7	mg/L	0.018	97	70	130			
Molybdenum		49.3	mg/L	0.24	97	70	130			
Nickel		48.1	mg/L	0.14	94	70	130			
Vanadium		50.4	mg/L	1.5	99	70	130			
Zinc		47.5	mg/L	0.075	93	70	130			
Sample ID: C11030523-001BMSD	7	Sample Matrix Spike Duplicate					Run: ICP2-C_110328A			03/28/11 14:20
Chromium		47.6	mg/L	0.093	93	70	130	2.3	20	
Copper		49.1	mg/L	0.074	96	70	130	0.4	20	
Manganese		50.1	mg/L	0.018	96	70	130	1.3	20	
Molybdenum		48.6	mg/L	0.24	95	70	130	1.4	20	
Nickel		47.7	mg/L	0.14	94	70	130	0.9	20	
Vanadium		50.1	mg/L	1.5	98	70	130	0.6	20	
Zinc		47.4	mg/L	0.075	92	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/05/11

Project: Marsland Expansion Project

Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: 29300										
Sample ID: MB-29300		Method Blank								
Uranium		0.0004	mg/L	6E-05						Run: ICPMS2-C_110318A 03/19/11 02:22
Sample ID: LCS2-29300		Laboratory Control Sample								
Uranium		0.0980	mg/L	0.00030	98	85	115			Run: ICPMS2-C_110318A 03/19/11 02:26
Sample ID: C11030468-010HMS		Sample Matrix Spike								
Uranium		0.00454	mg/L	0.00030	102	70	130			Run: ICPMS2-C_110318A 03/19/11 04:05
Sample ID: C11030468-010HMSD		Sample Matrix Spike Duplicate								
Uranium		0.00452	mg/L	0.00030	102	70	130	0.5	20	Run: ICPMS2-C_110318A 03/19/11 04:09
Method: E200.8 Batch: R143967										
Sample ID: LRB	6	Method Blank								
Arsenic		7E-05	mg/L	6E-05						Run: ICPMS2-C_110323A 03/23/11 12:03
Cadmium		ND	mg/L	1E-05						
Lead		ND	mg/L	3E-05						
Mercury		ND	mg/L	8E-05						
Selenium		0.0004	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Sample ID: LFB	6	Laboratory Fortified Blank								
Arsenic		0.0528	mg/L	0.0010	105	85	115			Run: ICPMS2-C_110323A 03/23/11 12:10
Cadmium		0.0534	mg/L	0.0010	107	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Mercury		0.00539	mg/L	0.0010	108	85	115			
Selenium		0.0523	mg/L	0.0010	104	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Sample ID: C11030468-002CMS4	6	Sample Matrix Spike								
Arsenic		0.0570	mg/L	0.0010	108	70	130			Run: ICPMS2-C_110323A 03/23/11 19:34
Cadmium		0.0486	mg/L	0.010	97	70	130			
Lead		0.0542	mg/L	0.050	107	70	130			
Mercury		0.00520	mg/L	0.0010	104	70	130			
Selenium		0.0509	mg/L	0.0010	97	70	130			
Uranium		0.0581	mg/L	0.00030	110	70	130			
Sample ID: C11030468-002CMSD	6	Sample Matrix Spike Duplicate								
Arsenic		0.0541	mg/L	0.0010	102	70	130	5.2	20	Run: ICPMS2-C_110323A 03/23/11 19:41
Cadmium		0.0474	mg/L	0.010	95	70	130	2.5	20	
Lead		0.0528	mg/L	0.050	105	70	130	2.7	20	
Mercury		0.00502	mg/L	0.0010	100	70	130	3.6	20	
Selenium		0.0492	mg/L	0.0010	94	70	130	3.5	20	
Uranium		0.0565	mg/L	0.00030	106	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144419A
Sample ID: C11030665-004CMS4	2	Sample Matrix Spike								Run: ICPMS4-C_110404A 04/04/11 17:26
Arsenic		0.0534	mg/L	0.0010	98	70	130			
Selenium		0.0559	mg/L	0.0010	108	70	130			
Sample ID: C11030665-004CMSD	2	Sample Matrix Spike Duplicate								Run: ICPMS4-C_110404A 04/04/11 18:01
Arsenic		0.0552	mg/L	0.0010	101	70	130	3.2	20	
Selenium		0.0575	mg/L	0.0010	111	70	130	2.7	20	
Sample ID: LRB	2	Method Blank								Run: ICPMS4-C_110404A 04/04/11 12:28
Arsenic		ND	mg/L	4E-05						
Selenium		ND	mg/L	5E-05						
Sample ID: LFB	2	Laboratory Fortified Blank								Run: ICPMS4-C_110404A 04/04/11 12:35
Arsenic		0.0538	mg/L	0.0010	108	85	115			
Selenium		0.0539	mg/L	0.0010	108	85	115			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/05/11

Project: Marsland Expansion Project

Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0								Analytical Run: IC2-C_110315A			
Sample ID: ICV	2	Initial Calibration Verification Standard									03/15/11 12:16
Chloride		10.0	mg/L	1.0	100	90	110				
Sulfate		40.1	mg/L	1.0	100	90	110				
Method: E300.0								Batch: R143695			
Sample ID: MBLK	2	Method Blank									03/15/11 12:32
Chloride		ND	mg/L	0.06							
Sulfate		0.2	mg/L	0.2							
Sample ID: LFB	2	Laboratory Fortified Blank									03/15/11 13:02
Chloride		12.4	mg/L	1.0	100	90	110				
Sulfate		50.2	mg/L	1.0	100	90	110				
Sample ID: LCS	2	Laboratory Control Sample									03/15/11 20:30
Chloride		10.0	mg/L	1.0	100	90	110				
Sulfate		40.2	mg/L	1.0	100	90	110				
Sample ID: C11030391-002BMS	2	Sample Matrix Spike									03/16/11 04:43
Chloride		56.9	mg/L	1.0	101	80	120				
Sulfate		289	mg/L	1.6	98	80	120				
Sample ID: C11030391-002BMSD	2	Sample Matrix Spike Duplicate									03/16/11 04:58
Chloride		56.4	mg/L	1.0	99	80	120	0.8	10		
Sulfate		287	mg/L	1.6	96	80	120	0.6	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R143975
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110323A 03/23/11 17:24
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110323A 03/23/11 17:26
Nitrogen, Nitrate+Nitrite as N		2.61	mg/L	0.10	104	90	110			
Sample ID: C11030377-001DMS		Sample Matrix Spike								Run: TECHNICON_110323A 03/23/11 17:41
Nitrogen, Nitrate+Nitrite as N		2.07	mg/L	0.10	106	90	110			
Sample ID: C11030377-001DMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110323A 03/23/11 17:44
Nitrogen, Nitrate+Nitrite as N		2.10	mg/L	0.10	107	90	110	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/05/11

Project: Marsland Expansion Project

Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 29300
Sample ID: C11030468-004HMS		Sample Matrix Spike								Run: BERTHOLD 770-2_110322A 03/28/11 21:54
Radium 226		9.0	pCi/L		87	70	130			
Sample ID: C11030468-004HMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-2_110322A 03/29/11 00:38
Radium 226		8.6	pCi/L		84	70	130	4.2	27.9	
Sample ID: LCS-29300		Laboratory Control Sample								Run: BERTHOLD 770-2_110322A 03/29/11 00:38
Radium 226		11	pCi/L		94	85	115			
Sample ID: MB-29300	3	Method Blank								Run: BERTHOLD 770-2_110322A 03/29/11 00:38
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Method: E903.0										Batch: RA226-5235
Sample ID: C11030211-003DMS		Sample Matrix Spike								Run: TENNELEC-3_110315B 03/21/11 17:17
Radium 226		14	pCi/L		109	70	130			
Sample ID: C11030211-003DMSD		Sample Matrix Spike Duplicate								Run: TENNELEC-3_110315B 03/21/11 17:17
Radium 226		14	pCi/L		111	70	130	1.7	25.1	
Sample ID: LCS-RA226-5235		Laboratory Control Sample								Run: TENNELEC-3_110315B 03/21/11 20:55
Radium 226		6.2	pCi/L		95	85	115			
Sample ID: MB-RA226-5235	3	Method Blank								Run: TENNELEC-3_110315B 03/21/11 20:55
Radium 226		0.2	pCi/L							
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/05/11

Project: Marsland Expansion Project

Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1350		
Sample ID: LCS-RA-TH-ISO-1350	Laboratory Control Sample					Run: EGG-ORTEC_110323A		03/25/11 09:27		
Thorium 230		5.3	pCi/L	103		70	130			
Sample ID: C11030665-001DMS	Sample Matrix Spike					Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		10	pCi/L	90		70	130			
Sample ID: C11030665-001DMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		10	pCi/L	88		70	130	0.8	36.5	
Sample ID: MB-RA-TH-ISO-1350	3	Method Blank				Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.05	pCi/L							
Thorium 230 MDC		0.10	pCi/L							
Method: E908.0								Batch: 29300		
Sample ID: C11030468-005HMS	Sample Matrix Spike					Run: EGG-ORTEC_110328D		03/30/11 16:22		
Thorium 230		8.7	pCi/L	102		70	130			
Sample ID: C11030468-005HMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110328D		03/30/11 16:22		
Thorium 230		7.9	pCi/L	94		70	130	9.6	46.6	
Sample ID: LCS-29300	Laboratory Control Sample					Run: EGG-ORTEC_110328D		03/30/11 16:22		
Thorium 230		11	pCi/L	113		70	130			
Sample ID: MB-29300	3	Method Blank				Run: EGG-ORTEC_110328D		03/30/11 16:22		
Thorium 230		-0.2	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0084		
Sample ID: LCS-PB-210-0084	Laboratory Control Sample					Run: SUB-T39702		03/24/11 20:59		
Lead 210		50	pCi/L	94		70	130			
Sample ID: MB-PB-210-0084	3	Method Blank					Run: SUB-T39702		03/24/11 18:47	
Lead 210		-0.5	pCi/L							U
Lead 210 precision (±)		0.9	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: TAP WATERMS	Laboratory Fortified Blank					Run: SUB-T39702		03/25/11 01:22		
Lead 210		52	pCi/L	99		70	130			
Sample ID: TAP WATERMSD	Laboratory Fortified Blank Duplicate					Run: SUB-T39702		03/25/11 03:33		
Lead 210		47	pCi/L	88		70	130	11	30	
Method: E909.0								Batch: T_13600		
Sample ID: T11030079-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-T40146		04/29/11 03:01		
Lead 210		53	pCi/L	85		70	130	4.2	16.3	
Sample ID: MB-13600 / 29300	3	Method Blank					Run: SUB-T40146		04/28/11 18:15	
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		6	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-13600 / 29300	Laboratory Control Sample					Run: SUB-T40146		04/28/11 20:26		
Lead 210		300	pCi/L	84		70	130			
Sample ID: T11030079-001HMS	Sample Matrix Spike					Run: SUB-T40146		04/29/11 00:49		
Lead 210		56	pCi/L	89		70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Expansion Project

Report Date: 05/05/11
Work Order: C11030396

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0351		
Sample ID: C11030396-002FMS		Sample Matrix Spike				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		11	pCi/L	82		70	130			
Sample ID: C11030396-002FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		10	pCi/L	78		70	130	5.0	76	
Sample ID: MB-PO210-0351	3	Method Blank				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		-0.03	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.8	pCi/L							
Sample ID: LCS-PO210-0351		Laboratory Control Sample				Run: EGG-ORTEC_110316B			03/17/11 13:06	
Polonium 210		7.2	pCi/L	113		70	130			
Method: E912.0								Batch: 29300		
Sample ID: C11030399-001EMS		Sample Matrix Spike				Run: EGG-ORTEC_110321C			03/23/11 09:05	
Polonium 210		5.5	pCi/L	102		70	130			
Sample ID: C11030399-001EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110321C			03/23/11 09:05	
Polonium 210		4.6	pCi/L	85		70	130	18	75.5	
Sample ID: LCS-29300		Laboratory Control Sample				Run: EGG-ORTEC_110321C			03/23/11 11:24	
Polonium 210		30	pCi/L	96		70	130			
Sample ID: MB-29300	3	Method Blank				Run: EGG-ORTEC_110321C			03/23/11 11:24	
Polonium 210		0.8	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030396

Login completed by: Corinne Wagner

Date Received: 3/14/2011

Reviewed by: BL2000\tedwards

Received by: ckw

Reviewed Date: 3/17/2011

Carrier Next Day Air
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 7.2°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples for dissolved Radiochemistry were subsampled, filtered and preserved with 2 mL HNO₃ in lab upon receipt to pH <2.

Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Invoice Address: P.O. Box 169, Crawford, NE 69339
Special Report/Formats - ELI must be notified prior to sample submittal for the following:
 DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Project Name, PWS, Permit, Etc. Marsland Expansion Project
Sample Origin State: NE
Contact Name: Larry Teahon **Phone/Fax:** 308-665-2341
Invoice Contact & Phone: Larry Teahon, 308-665-2215 ext 114
Sample Origin: NE
Sampler: (Please Print) Brooke Bass, Rhonda Pelton
Quote/Bottle Order: 1125

Number of Containers (Sample Type: A W S V B O, Air Water, Soils/Solids, Vegetation, Blossay, Other)
MATRIX
ANALYSIS REQUESTED (SEE ATTACHED)

Sample ID	Matrix	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	RAW-UF, Ra226, Po210 dissolved & suspended	HNO3-F-Metals	RAW-UF-Pb210 dissolved & suspended	RAW-UF-Th230, U nat dissolved & suspended
1	E. Driller's Well	1	1	5	1G	5	1	1
2	W. Driller's Well	1	1	5	1G	5	1	1
3								
4								
5								
6								
7								
8								

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page
Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 reqmts. Record U as mg/l and $\mu\text{Ci/ml}$ and radiometrics as pCi/l
 Please report 4/29/11
 Please report 4/29/11

Shipped by: NDA
Receipt Temp: 7.2 °C
On Ice: Yes (circled) No
Custody Seal: Y (circled) N
Intact: Y N
Signature Match: Y N

Received by (print): Rhonda Pelton **Date/Time:** 3-11-11 12:45
Signature: [Signature] **Received by (print):** UPS
Signature: [Signature] **Date/Time:** 3/14/11 9:40
Signature: [Signature]

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.



ANALYTICAL SUMMARY REPORT

April 19, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030665 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland G-8 Samples

Energy Laboratories, Inc. Casper WY received the following 4 samples for Crow Butte Resources on 3/22/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030665-001	BOW 2010-2	03/18/11 0:00	03/22/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030665-002	BOW 2010-3	03/18/11 0:00	03/22/11	Aqueous	Same As Above
C11030665-003	BOW 2010-5	03/18/11 0:00	03/22/11	Aqueous	Same As Above
C11030665-004	BOW 2010-6	03/18/11 0:00	03/22/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland G-8 Samples
Sample Delivery Group: C11030665

Report Date: 04/19/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-001
Client Sample ID: BOW 2010-2

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	187	mg/L		1		A2320 B	03/23/11 18:55 / jba
Carbonate as CO ₃	52	mg/L		1		A2320 B	03/23/11 18:55 / jba
Bicarbonate as HCO ₃	122	mg/L		1		A2320 B	03/23/11 18:55 / jba
Calcium	6	mg/L		1		E200.7	03/28/11 15:21 / cp
Chloride	32	mg/L		1		E300.0	03/24/11 17:39 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/23/11 14:32 / jba
Magnesium	ND	mg/L		1		E200.7	03/28/11 15:21 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 13:09 / dc
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	03/25/11 11:58 / dc
Potassium	12	mg/L		1		E200.7	03/28/11 15:21 / cp
Silica	95.1	mg/L		0.2		E200.7	03/28/11 15:21 / cp
Sodium	112	mg/L		1		E200.7	03/28/11 15:21 / cp
Sulfate	39	mg/L	D	2		E300.0	03/24/11 17:39 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	542	umhos/cm		1		A2510 B	03/23/11 09:47 / lmc
pH	9.58	s.u.		0.01		A4500-H B	03/23/11 09:47 / lmc
Solids, Total Dissolved TDS @ 180 C	396	mg/L		10		A2540 C	03/23/11 16:31 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/28/11 15:21 / cp
Arsenic	0.004	mg/L		0.001		E200.8	03/24/11 02:15 / sml
Barium	ND	mg/L		0.1		E200.8	03/24/11 02:15 / sml
Boron	ND	mg/L		0.1		E200.7	03/28/11 15:21 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/24/11 02:15 / sml
Chromium	ND	mg/L		0.05		E200.8	03/24/11 02:15 / sml
Copper	ND	mg/L		0.01		E200.8	03/24/11 02:15 / sml
Iron	ND	mg/L		0.03		E200.7	03/28/11 15:21 / cp
Lead	ND	mg/L		0.001		E200.8	03/24/11 02:15 / sml
Manganese	ND	mg/L		0.01		E200.8	03/24/11 02:15 / sml
Mercury	ND	mg/L		0.001		E200.8	04/04/11 16:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/24/11 02:15 / sml
Nickel	ND	mg/L		0.05		E200.8	03/24/11 02:15 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/24/11 02:15 / sml
Uranium	0.0032	mg/L		0.0003		E200.8	03/24/11 02:15 / sml
Uranium, Activity	2.2E-09	uCi/mL		2.0E-10		E200.8	03/24/11 02:15 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/24/11 02:15 / sml
Zinc	0.07	mg/L		0.01		E200.8	03/24/11 02:15 / sml
METALS - SUSPENDED							
Uranium	0.0017	mg/L		0.0003		E200.8	03/26/11 15:15 / sml
Uranium, Activity	1.2E-09	uCi/mL		2.0E-10		E200.8	03/26/11 15:15 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-001
Client Sample ID: BOW 2010-2

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/08/11 05:01 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/08/11 05:01 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/08/11 05:01 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	03/30/11 09:06 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/30/11 09:06 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	03/30/11 09:06 / ep
Radium 226	0.26	pCi/L		0.10		E903.0	03/30/11 08:32 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	03/30/11 08:32 / trs
Radium 226 MDC	0.10	pCi/L				E903.0	03/30/11 08:32 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 09:27 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	03/25/11 09:27 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 09:27 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/08/11 22:33 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/08/11 22:33 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/08/11 22:33 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/30/11 09:07 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 09:07 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/30/11 09:07 / ep
Radium 226	0.28	pCi/L		0.09		E903.0	03/30/11 12:17 / trs
Radium 226 precision (±)	0.10	pCi/L				E903.0	03/30/11 12:17 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	03/30/11 12:17 / trs
Thorium 230	0.2	pCi/L		0.1		E908.0	03/29/11 08:53 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.717	%				Calculation	04/07/11 10:37 / kbh
Anions	5.57	meq/L				Calculation	04/07/11 10:37 / kbh
Cations	5.49	meq/L				Calculation	04/07/11 10:37 / kbh
Solids, Total Dissolved Calculated	439	mg/L				Calculation	04/07/11 10:37 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	04/07/11 10:37 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-002
Client Sample ID: BOW 2010-3

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	145	mg/L		1		A2320 B	03/23/11 19:04 / jba
Carbonate as CO ₃	41	mg/L		1		A2320 B	03/23/11 19:04 / jba
Bicarbonate as HCO ₃	94	mg/L		1		A2320 B	03/23/11 19:04 / jba
Calcium	5	mg/L		1		E200.7	03/28/11 15:33 / cp
Chloride	37	mg/L		1		E300.0	03/24/11 17:54 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	03/23/11 14:35 / jba
Magnesium	ND	mg/L		1		E200.7	03/28/11 15:33 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 13:17 / dc
Nitrogen, Nitrate+Nitrite as N	0.5	mg/L		0.1		E353.2	03/25/11 12:01 / dc
Potassium	10	mg/L		1		E200.7	03/28/11 15:33 / cp
Silica	86.5	mg/L		0.2		E200.7	03/28/11 15:33 / cp
Sodium	109	mg/L		1		E200.7	03/28/11 15:33 / cp
Sulfate	60	mg/L	D	2		E300.0	03/24/11 17:54 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	527	umhos/cm		1		A2510 B	03/23/11 09:48 / lmc
pH	9.57	s.u.		0.01		A4500-H B	03/23/11 09:48 / lmc
Solids, Total Dissolved TDS @ 180 C	375	mg/L		10		A2540 C	03/23/11 16:31 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/28/11 15:33 / cp
Arsenic	0.009	mg/L		0.001		E200.8	03/24/11 02:21 / sml
Barium	ND	mg/L		0.1		E200.8	03/24/11 02:21 / sml
Boron	0.1	mg/L		0.1		E200.7	03/28/11 15:33 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/24/11 02:21 / sml
Chromium	ND	mg/L		0.05		E200.8	03/24/11 02:21 / sml
Copper	ND	mg/L		0.01		E200.8	03/24/11 02:21 / sml
Iron	0.04	mg/L		0.03		E200.7	03/28/11 15:33 / cp
Lead	ND	mg/L		0.001		E200.8	03/24/11 02:21 / sml
Manganese	ND	mg/L		0.01		E200.8	03/24/11 02:21 / sml
Mercury	ND	mg/L		0.001		E200.8	04/04/11 17:05 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/24/11 02:21 / sml
Nickel	ND	mg/L		0.05		E200.8	03/24/11 02:21 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/24/11 02:21 / sml
Uranium	0.0035	mg/L		0.0003		E200.8	03/24/11 02:21 / sml
Uranium, Activity	2.4E-09	uCi/mL		2.0E-10		E200.8	03/24/11 02:21 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/24/11 02:21 / sml
Zinc	0.15	mg/L		0.01		E200.8	03/24/11 02:21 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/26/11 15:19 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/26/11 15:19 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-002
Client Sample ID: BOW 2010-3

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/08/11 07:12 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/08/11 07:12 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/08/11 07:12 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	03/30/11 09:06 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	03/30/11 09:06 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	03/30/11 09:06 / ep
Radium 226	0.23	pCi/L		0.11		E903.0	03/30/11 08:32 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	03/30/11 08:32 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	03/30/11 08:32 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 13:40 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/25/11 13:40 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 13:40 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/09/11 00:44 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/09/11 00:44 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/09/11 00:44 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/30/11 09:07 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/30/11 09:07 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/30/11 09:07 / ep
Radium 226	0.15	pCi/L		0.08		E903.0	03/30/11 12:17 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/29/11 08:53 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.182	%				Calculation	04/07/11 10:38 / kbh
Anions	5.27	meq/L				Calculation	04/07/11 10:38 / kbh
Cations	5.25	meq/L				Calculation	04/07/11 10:38 / kbh
Solids, Total Dissolved Calculated	420	mg/L				Calculation	04/07/11 10:38 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	04/07/11 10:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-003
Client Sample ID: BOW 2010-5

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	151	mg/L		1		A2320 B	03/23/11 19:12 / jba
Carbonate as CO ₃	7	mg/L		1		A2320 B	03/23/11 19:12 / jba
Bicarbonate as HCO ₃	170	mg/L		1		A2320 B	03/23/11 19:12 / jba
Calcium	29	mg/L		1		E200.7	03/28/11 16:30 / cp
Chloride	7	mg/L		1		E300.0	03/24/11 18:41 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	03/23/11 14:42 / jba
Magnesium	7	mg/L		1		E200.7	03/28/11 16:30 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 13:19 / dc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	03/25/11 12:11 / dc
Potassium	5	mg/L		1		E200.7	03/28/11 16:30 / cp
Silica	83.9	mg/L		0.2		E200.7	03/28/11 16:30 / cp
Sodium	28	mg/L		1		E200.7	03/28/11 16:30 / cp
Sulfate	9	mg/L		1		E300.0	03/24/11 18:41 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	03/23/11 09:50 / lmc
pH	8.34	s.u.		0.01		A4500-H B	03/23/11 09:50 / lmc
Solids, Total Dissolved TDS @ 180 C	228	mg/L		10		A2540 C	03/23/11 16:31 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/28/11 16:30 / cp
Arsenic	0.004	mg/L		0.001		E200.8	03/24/11 02:28 / sml
Barium	0.1	mg/L		0.1		E200.8	03/24/11 02:28 / sml
Boron	0.1	mg/L		0.1		E200.7	03/28/11 16:30 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/24/11 02:28 / sml
Chromium	ND	mg/L		0.05		E200.8	03/24/11 02:28 / sml
Copper	ND	mg/L		0.01		E200.8	03/24/11 02:28 / sml
Iron	ND	mg/L		0.03		E200.7	03/28/11 16:30 / cp
Lead	ND	mg/L		0.001		E200.8	03/24/11 02:28 / sml
Manganese	ND	mg/L		0.01		E200.8	03/24/11 02:28 / sml
Mercury	ND	mg/L		0.001		E200.8	04/04/11 17:12 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/24/11 02:28 / sml
Nickel	ND	mg/L		0.05		E200.8	03/24/11 02:28 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/24/11 02:28 / sml
Uranium	0.0075	mg/L		0.0003		E200.8	03/24/11 02:28 / sml
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	03/24/11 02:28 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/24/11 02:28 / sml
Zinc	0.09	mg/L		0.01		E200.8	03/24/11 02:28 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/26/11 15:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/26/11 15:23 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-003
Client Sample ID: BOW 2010-5

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/08/11 09:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/08/11 09:24 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/08/11 09:24 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	03/30/11 09:06 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 09:06 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	03/30/11 09:06 / ep
Radium 226	0.41	pCi/L		0.11		E903.0	03/30/11 08:32 / trs
Radium 226 precision (±)	0.13	pCi/L				E903.0	03/30/11 08:32 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	03/30/11 08:32 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 13:40 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	03/25/11 13:40 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 13:40 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	04/09/11 02:55 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/09/11 02:55 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	04/09/11 02:55 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	03/30/11 09:07 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	03/30/11 09:07 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	03/30/11 09:07 / ep
Radium 226	0.14	pCi/L		0.08		E903.0	03/30/11 12:17 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/29/11 08:53 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	03/29/11 08:53 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.58	%				Calculation	04/07/11 10:38 / kbh
Anions	3.48	meq/L				Calculation	04/07/11 10:38 / kbh
Cations	3.37	meq/L				Calculation	04/07/11 10:38 / kbh
Solids, Total Dissolved Calculated	285	mg/L				Calculation	04/07/11 10:38 / kbh
TDS Balance (0.80 - 1.20)	0.800					Calculation	04/07/11 10:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-004
Client Sample ID: BOW 2010-6

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	143	mg/L		1		A2320 B	03/23/11 19:38 / jba
Carbonate as CO3	7	mg/L		1		A2320 B	03/23/11 19:38 / jba
Bicarbonate as HCO3	159	mg/L		1		A2320 B	03/23/11 19:38 / jba
Calcium	31	mg/L		1		E200.7	03/28/11 16:34 / cp
Chloride	10	mg/L		1		E300.0	03/24/11 18:56 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/23/11 14:59 / jba
Magnesium	7	mg/L		1		E200.7	03/28/11 16:34 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/28/11 13:21 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/25/11 12:13 / dc
Potassium	5	mg/L		1		E200.7	03/28/11 16:34 / cp
Silica	73.7	mg/L		0.2		E200.7	03/28/11 16:34 / cp
Sodium	25	mg/L		1		E200.7	03/28/11 16:34 / cp
Sulfate	10	mg/L		1		E300.0	03/24/11 18:56 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	309	umhos/cm		1		A2510 B	03/23/11 09:52 / lmc
pH	8.50	s.u.		0.01		A4500-H B	03/23/11 09:52 / lmc
Solids, Total Dissolved TDS @ 180 C	225	mg/L		10		A2540 C	03/23/11 16:32 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	03/28/11 16:34 / cp
Arsenic	0.005	mg/L		0.001		E200.8	03/24/11 02:35 / sml
Barium	0.1	mg/L		0.1		E200.8	03/24/11 02:35 / sml
Boron	ND	mg/L		0.1		E200.7	03/28/11 16:34 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/24/11 02:35 / sml
Chromium	ND	mg/L		0.05		E200.7	03/28/11 16:34 / cp
Copper	ND	mg/L		0.01		E200.8	03/24/11 02:35 / sml
Iron	ND	mg/L		0.03		E200.7	03/28/11 16:34 / cp
Lead	ND	mg/L		0.001		E200.8	03/24/11 02:35 / sml
Manganese	ND	mg/L		0.01		E200.7	03/28/11 16:34 / cp
Mercury	ND	mg/L		0.001		E200.8	04/04/11 17:19 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/24/11 02:35 / sml
Nickel	ND	mg/L		0.05		E200.8	03/24/11 02:35 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/24/11 02:35 / sml
Uranium	0.0055	mg/L		0.0003		E200.8	03/24/11 02:35 / sml
Uranium, Activity	3.7E-09	uCi/mL		2.0E-10		E200.8	03/24/11 02:35 / sml
Vanadium	ND	mg/L		0.1		E200.7	03/28/11 16:34 / cp
Zinc	0.06	mg/L		0.01		E200.8	03/24/11 02:35 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	03/26/11 15:43 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	03/26/11 15:43 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples
Lab ID: C11030665-004
Client Sample ID: BOW 2010-6

Report Date: 04/19/11
Collection Date: 03/18/11
Date Received: 03/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/08/11 11:35 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/08/11 11:35 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/08/11 11:35 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	03/30/11 09:06 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	03/30/11 09:06 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	03/30/11 09:06 / ep
Radium 226	0.34	pCi/L		0.11		E903.0	03/30/11 08:32 / trs
Radium 226 precision (±)	0.12	pCi/L				E903.0	03/30/11 08:32 / trs
Radium 226 MDC	0.11	pCi/L				E903.0	03/30/11 08:32 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/25/11 13:40 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/25/11 13:40 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/25/11 13:40 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	04/09/11 05:07 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/09/11 05:07 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	04/09/11 05:07 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	03/30/11 09:07 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	03/30/11 09:07 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	03/30/11 09:07 / ep
Radium 226	0.16	pCi/L		0.08		E903.0	03/30/11 12:17 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	03/30/11 12:17 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/29/11 08:53 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/29/11 08:53 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/29/11 08:53 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.63	%				Calculation	04/07/11 10:38 / kbh
Anions	3.43	meq/L				Calculation	04/07/11 10:38 / kbh
Cations	3.32	meq/L				Calculation	04/07/11 10:38 / kbh
Solids, Total Dissolved Calculated	271	mg/L				Calculation	04/07/11 10:38 / kbh
TDS Balance (0.80 - 1.20)	0.830					Calculation	04/07/11 10:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: R143981		
Sample ID: MBLK	3	Method Blank				Run: MANTECH_110323C		03/23/11 17:20		
Alkalinity, Total as CaCO3		3	mg/L	1						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_110323C		03/23/11 17:36		
Alkalinity, Total as CaCO3		214	mg/L	5.0	105	90	110			
Sample ID: C11030665-003ADUP	3	Sample Duplicate				Run: MANTECH_110323C		03/23/11 19:20		
Alkalinity, Total as CaCO3		149	mg/L	5.0				0.9	10	
Carbonate as CO3		5.49	mg/L	5.0				17	10	R
Bicarbonate as HCO3		171	mg/L	5.0				0.3	10	
- R - The Sample and the Duplicate are both near the PQL/RL; the RPD is acceptable.										
Sample ID: C11030665-003AMS		Sample Matrix Spike				Run: MANTECH_110323C		03/23/11 19:30		
Alkalinity, Total as CaCO3		284	mg/L	5.0	107	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110323A		
Sample ID: ICV2_110323_1	Initial Calibration Verification Standard									03/23/11 09:34
Conductivity @ 25 C		1370	umhos/cm	1.0	97	90	110			
Method: A2510 B								Batch: 110323_1_PH-W_555A-2		
Sample ID: MBLK1_110323_1	Method Blank									Run: ORION555A-2_110323A 03/23/11 09:31
Conductivity @ 25 C		2	umhos/cm	0.2						
Sample ID: C11030671-002ADUP	Sample Duplicate									Run: ORION555A-2_110323A 03/23/11 10:00
Conductivity @ 25 C		22900	umhos/cm	1.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R144071
Sample ID: MBLK1_		Method Blank								Run: BAL-1_110323B 03/23/11 16:30
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_		Laboratory Control Sample								Run: BAL-1_110323B 03/23/11 16:30
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C11030665-004BDUP		Sample Duplicate								Run: BAL-1_110323B 03/23/11 16:32
Solids, Total Dissolved TDS @ 180 C		233	mg/L	10				3.4	10	
Sample ID: C11030684-005AMS		Sample Matrix Spike								Run: BAL-1_110323B 03/23/11 16:37
Solids, Total Dissolved TDS @ 180 C		2170	mg/L	10	102	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R143974
Sample ID: MBLK		Method Blank								Run: MANTECH_110323B 03/23/11 12:41
Fluoride		0.02	mg/L	0.008						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110323B 03/23/11 12:44
Fluoride		1.00	mg/L	0.10	98	90	110			
Sample ID: C11030665-004AMS		Sample Matrix Spike								Run: MANTECH_110323B 03/23/11 15:06
Fluoride		1.53	mg/L	0.10	96	80	120			
Sample ID: C11030665-004AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110323B 03/23/11 15:12
Fluoride		1.56	mg/L	0.10	99	80	120	1.9	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110323A		
Sample ID: ICV1_110323_1		Initial Calibration Verification Standard						03/23/11 09:32		
pH		6.94	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110323_1_PH-W_555A-2		
Sample ID: C11030671-002ADUP		Sample Duplicate				Run: ORION555A-2_110323A		03/23/11 10:00		
pH		6.97	s.u.	0.010				0.0	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R144164
Sample ID: MBLK-4 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_110328A 03/28/11 12:11
Sample ID: LCS-5 Nitrogen, Ammonia as N		Laboratory Control Sample 1.97	mg/L	0.050	99	90	110			Run: TECHNICON_110328A 03/28/11 12:13
Sample ID: C11030665-004HMS Nitrogen, Ammonia as N		Sample Matrix Spike 1.79	mg/L	0.050	91	80	120			Run: TECHNICON_110328A 03/28/11 13:29
Sample ID: C11030665-004HMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.83	mg/L	0.050	93	80	120	2.2	10	Run: TECHNICON_110328A 03/28/11 13:31

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144155										
Sample ID: MB-110328A	11	Method Blank								
Run: ICP2-C_110328A										
03/28/11 13:07										
Aluminum		ND	mg/L	0.01						
Boron		0.04	mg/L	0.009						
Calcium		ND	mg/L	0.2						
Chromium		ND	mg/L	0.002						
Iron		ND	mg/L	0.002						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0004						
Potassium		ND	mg/L	0.02						
Silicon		0.01	mg/L	0.007						
Sodium		ND	mg/L	0.3						
Vanadium		0.0001	mg/L							
Sample ID: LFB-110328A	11	Laboratory Fortified Blank								
Run: ICP2-C_110328A										
03/28/11 13:11										
Aluminum		0.899	mg/L	0.10	90	85	115			
Boron		0.965	mg/L	0.10	92	85	115			
Calcium		48.8	mg/L	0.50	98	85	115			
Chromium		0.948	mg/L	0.050	95	85	115			
Iron		0.965	mg/L	0.030	96	85	115			
Magnesium		49.3	mg/L	0.50	99	85	115			
Manganese		0.940	mg/L	0.010	94	85	115			
Potassium		46.4	mg/L	0.50	93	85	115			
Silicon		0.440	mg/L	0.10	92	85	115			
Sodium		46.9	mg/L	0.50	94	85	115			
Vanadium		0.981	mg/L	0.10	98	85	115			
Sample ID: C11030665-001CMS2	11	Sample Matrix Spike								
Run: ICP2-C_110328A										
03/28/11 15:25										
Aluminum		1.98	mg/L	0.10	97	70	130			
Boron		2.01	mg/L	0.10	97	70	130			
Calcium		106	mg/L	1.0	98	70	130			
Chromium		1.98	mg/L	0.050	97	70	130			
Iron		2.04	mg/L	0.030	99	70	130			
Magnesium		100	mg/L	1.0	98	70	130			
Manganese		2.01	mg/L	0.010	99	70	130			
Potassium		99.0	mg/L	1.0	86	70	130			
Silicon		45.4	mg/L	0.10		70	130			A
Sodium		213	mg/L	1.0	100	70	130			
Vanadium		2.01	mg/L	0.10	98	70	130			
Sample ID: C11030665-001CMSD	11	Sample Matrix Spike Duplicate								
Run: ICP2-C_110328A										
03/28/11 15:29										
Aluminum		2.03	mg/L	0.10	99	70	130	2.3	20	
Boron		2.07	mg/L	0.10	100	70	130	2.7	20	
Calcium		106	mg/L	1.0	98	70	130	0.0	20	
Chromium		1.99	mg/L	0.050	97	70	130	0.4	20	
Iron		2.04	mg/L	0.030	100	70	130	0.1	20	
Magnesium		101	mg/L	1.0	98	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: R144155		
Sample ID: C11030665-001CMSD				11	Sample Matrix Spike Duplicate		Run: ICP2-C_110328A		03/28/11 15:29	
Manganese		2.02	mg/L	0.010	99	70	130	0.3	20	
Potassium		98.5	mg/L	1.0	85	70	130	0.4	20	
Silicon		45.7	mg/L	0.10		70	130	0.6	20	A
Sodium		212	mg/L	1.0	98	70	130	0.6	20	
Vanadium		2.03	mg/L	0.10	99	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R143967										
Sample ID: LRB	13	Method Blank								
Run: ICPMS2-C_110323A										
03/23/11 12:03										
Arsenic		7E-05	mg/L	6E-05						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Selenium		0.0004	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	13	Laboratory Fortified Blank								
Run: ICPMS2-C_110323A										
03/23/11 12:10										
Arsenic		0.0528	mg/L	0.0010	105	85	115			
Barium		0.0552	mg/L	0.0010	110	85	115			
Cadmium		0.0534	mg/L	0.0010	107	85	115			
Chromium		0.0538	mg/L	0.0010	108	85	115			
Copper		0.0534	mg/L	0.0010	107	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Manganese		0.0536	mg/L	0.0010	107	85	115			
Molybdenum		0.0516	mg/L	0.0010	103	85	115			
Nickel		0.0535	mg/L	0.0010	107	85	115			
Selenium		0.0523	mg/L	0.0010	104	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Vanadium		0.0534	mg/L	0.0010	107	85	115			
Zinc		0.0546	mg/L	0.0010	109	85	115			
Sample ID: C11030665-004CMS4	13	Sample Matrix Spike								
Run: ICPMS2-C_110323A										
03/24/11 02:42										
Arsenic		0.0546	mg/L	0.0010	100	70	130			
Barium		0.157	mg/L	0.10	94	70	130			
Cadmium		0.0500	mg/L	0.010	100	70	130			
Chromium		0.0480	mg/L	0.0010	93	70	130			
Copper		0.0563	mg/L	0.010	104	70	130			
Lead		0.0510	mg/L	0.050	101	70	130			
Manganese		0.0469	mg/L	0.010	93	70	130			
Molybdenum		0.0505	mg/L	0.0010	98	70	130			
Nickel		0.0533	mg/L	0.050	104	70	130			
Selenium		0.0502	mg/L	0.0010	98	70	130			
Uranium		0.0550	mg/L	0.00030	99	70	130			
Vanadium		0.0582	mg/L	0.0010	93	70	130			
Zinc		0.110	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: R143967										
Sample ID: C11030665-004CMSD 13 Sample Matrix Spike Duplicate Run: ICPMS2-C_110323A 03/24/11 03:16										
Arsenic		0.0541	mg/L	0.0010	99	70	130	0.9	20	
Barium		0.153	mg/L	0.10	87	70	130	2.3	20	
Cadmium		0.0495	mg/L	0.010	99	70	130	1.0	20	
Chromium		0.0477	mg/L	0.0010	93	70	130	0.7	20	
Copper		0.0555	mg/L	0.010	103	70	130	1.6	20	
Lead		0.0503	mg/L	0.050	100	70	130	1.3	20	
Manganese		0.0452	mg/L	0.010	89	70	130	3.5	20	
Molybdenum		0.0501	mg/L	0.0010	98	70	130	0.8	20	
Nickel		0.0540	mg/L	0.050	105	70	130	1.4	20	
Selenium		0.0500	mg/L	0.0010	98	70	130	0.4	20	
Uranium		0.0535	mg/L	0.00030	96	70	130	2.6	20	
Vanadium		0.0585	mg/L	0.0010	94	70	130	0.4	20	
Zinc		0.108	mg/L	0.010	98	70	130	1.0	20	
Method: E200.8 Batch: 29347										
Sample ID: MB-29347 Method Blank Run: ICPMS4-C_110325A 03/26/11 15:02										
Uranium		ND	mg/L	7E-05						
Sample ID: LCS2-29347 Laboratory Control Sample Run: ICPMS4-C_110325A 03/26/11 15:06										
Uranium		0.0980	mg/L	0.00030	98	85	115			
Sample ID: C11030665-004GMS Sample Matrix Spike Run: ICPMS4-C_110325A 03/26/11 15:47										
Uranium		0.00492	mg/L	0.00030	108	70	130			
Sample ID: C11030665-004GMSD Sample Matrix Spike Duplicate Run: ICPMS4-C_110325A 03/26/11 15:51										
Uranium		0.00482	mg/L	0.00030	106	70	130	2.0	20	
Method: E200.8 Batch: R144419A										
Sample ID: C11030665-004CMS4 Sample Matrix Spike Run: ICPMS4-C_110404A 04/04/11 17:26										
Mercury		0.00513	mg/L	0.0010	103	70	130			
Sample ID: C11030665-004CMSD Sample Matrix Spike Duplicate Run: ICPMS4-C_110404A 04/04/11 18:01										
Mercury		0.00535	mg/L	0.0010	107	70	130	4.2	20	
Sample ID: LRB Method Blank Run: ICPMS4-C_110404A 04/04/11 12:28										
Mercury		ND	mg/L	2E-05						
Sample ID: LFB Laboratory Fortified Blank Run: ICPMS4-C_110404A 04/04/11 12:35										
Mercury		0.00545	mg/L	0.0010	109	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R144056		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_110324A			03/24/11 12:15	
Chloride		9.94	mg/L	1.0	99	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_110324A			03/24/11 12:30	
Chloride		ND	mg/L	0.06						
Sulfate		0.3	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC2-C_110324A			03/24/11 13:01	
Chloride		12.2	mg/L	1.0	98	90	110			
Sulfate		50.0	mg/L	1.0	99	90	110			
Sample ID: C11030665-002AMS	2	Sample Matrix Spike				Run: IC2-C_110324A			03/24/11 18:10	
Chloride		56.9	mg/L	1.0	100	80	120			
Sulfate		140	mg/L	1.6	102	80	120			
Sample ID: C11030665-002AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_110324A			03/24/11 18:25	
Chloride		56.9	mg/L	1.0	100	80	120	0.0	10	
Sulfate		140	mg/L	1.6	102	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144087
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110325A
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						03/25/11 11:46
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110325A
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	105	90	110			03/25/11 11:48
Sample ID: C11030665-002HMS		Sample Matrix Spike								Run: TECHNICON_110325A
Nitrogen, Nitrate+Nitrite as N		2.60	mg/L	0.10	107	90	110			03/25/11 12:03
Sample ID: C11030665-002HMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110325A
Nitrogen, Nitrate+Nitrite as N		2.66	mg/L	0.10	110	90	110	2.3	10	03/25/11 12:06

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: 29347										
Sample ID: C11030665-001GMS		Sample Matrix Spike								
Radium 226		11	pCi/L	105		70	130			03/30/11 12:17
Sample ID: C11030665-001GMSD		Sample Matrix Spike Duplicate								
Radium 226		11	pCi/L	101		70	130	3.8	24.3	03/30/11 12:17
Sample ID: LCS-29347		Laboratory Control Sample								
Radium 226		11	pCi/L	87		85	115			03/30/11 12:17
Sample ID: MB-29347	3	Method Blank								03/30/11 12:16
Radium 226		0.04	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Method: E903.0 Batch: RA226-5258										
Sample ID: C11030665-001DMS		Sample Matrix Spike								
Radium 226		12	pCi/L	94		70	130			03/30/11 08:32
Sample ID: C11030665-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		12	pCi/L	95		70	130	1.1	25	03/30/11 08:32
Sample ID: MB-RA226-5258	3	Method Blank								03/30/11 10:25
Radium 226		0.08	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5258		Laboratory Control Sample								
Radium 226		6.0	pCi/L	93		85	115			03/30/11 10:25

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1350		
Sample ID: LCS-RA-TH-ISO-1350	Laboratory Control Sample					Run: EGG-ORTEC_110323A		03/25/11 09:27		
Thorium 230		5.3	pCi/L	103		70	130			
Sample ID: C11030665-001DMS	Sample Matrix Spike					Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		10	pCi/L	90		70	130			
Sample ID: C11030665-001DMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		10	pCi/L	88		70	130	0.8	36.5	
Sample ID: MB-RA-TH-ISO-1350	3	Method Blank				Run: EGG-ORTEC_110323A		03/25/11 13:40		
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.05	pCi/L							
Thorium 230 MDC		0.10	pCi/L							
Method: E908.0								Batch: 29347		
Sample ID: C11030665-002GMS	Sample Matrix Spike					Run: EGG-ORTEC_110324A		03/29/11 08:53		
Thorium 230		8.8	pCi/L	104		70	130			
Sample ID: C11030665-002GMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110324A		03/29/11 08:53		
Thorium 230		11	pCi/L	128		70	130	20	49.7	
Sample ID: LCS-29347	Laboratory Control Sample					Run: EGG-ORTEC_110324A		03/29/11 08:53		
Thorium 230		12	pCi/L	120		70	130			
Sample ID: MB-29347	3	Method Blank				Run: EGG-ORTEC_110324A		03/29/11 08:53		
Thorium 230		-0.2	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0087		
Sample ID: MB-PB-210-0087	3	Method Blank				Run: SUB-T39912				04/07/11 18:03
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		1.0	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0087		Laboratory Control Sample				Run: SUB-T39912				04/07/11 20:15
Lead 210		58	pCi/L	109		70	130			
Sample ID: TAP WATERMS		Sample Matrix Spike				Run: SUB-T39912				04/08/11 00:38
Lead 210		53	pCi/L	100		70	130			
Sample ID: TAP WATERMSD		Sample Matrix Spike Duplicate				Run: SUB-T39912				04/08/11 02:49
Lead 210		57	pCi/L	107		70	130	7.6	16	
Method: E909.0								Batch: T_13599		
Sample ID: C11030665-004GMSD		Sample Matrix Spike Duplicate				Run: SUB-T39934				04/09/11 09:30
Lead 210		77	pCi/L	81		70	130	25	16.2	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.										
Sample ID: MB-13599 / 29347	3	Method Blank				Run: SUB-T39934				04/08/11 18:10
Lead 210		1	pCi/L							U
Lead 210 precision (±)		6	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-13599 29347		Laboratory Control Sample				Run: SUB-T39934				04/08/11 20:21
Lead 210		320	pCi/L	88		70	130			
Sample ID: C11030665-004GMS		Sample Matrix Spike				Run: SUB-T39934				04/09/11 07:18
Lead 210		99	pCi/L	105		70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland G-8 Samples

Report Date: 04/19/11
Work Order: C11030665

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0355		
Sample ID: C11030665-001FMS		Sample Matrix Spike				Run: EGG-ORTEC_110328A			03/30/11 09:06	
Polonium 210		13	pCi/L		97	70	130			
Sample ID: C11030665-001FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110328A			03/30/11 09:06	
Polonium 210		11	pCi/L		87	70	130	10	74.1	
Sample ID: MB-PO210-0355	3	Method Blank				Run: EGG-ORTEC_110328A			03/30/11 09:06	
Polonium 210		-0.02	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0355		Laboratory Control Sample				Run: EGG-ORTEC_110328A			03/30/11 09:06	
Polonium 210		8.1	pCi/L		127	20	120			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.										
Method: E912.0								Batch: 29347		
Sample ID: C11030665-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_110328B			03/30/11 09:07	
Polonium 210		5.3	pCi/L		98	70	130			
Sample ID: C11030665-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110328B			03/30/11 09:07	
Polonium 210		4.3	pCi/L		78	70	130	22	85.4	
Sample ID: LCS-29347		Laboratory Control Sample				Run: EGG-ORTEC_110328B			03/30/11 09:07	
Polonium 210		30	pCi/L		99	70	130			
Sample ID: MB-29347	3	Method Blank				Run: EGG-ORTEC_110328B			03/30/11 09:07	
Polonium 210		-0.1	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11030665

Login completed by: Edith McPike
Reviewed by: BL2000\cwagner
Reviewed Date: 3/24/2011

Date Received: 3/22/2011

Received by: ha

Carrier Next Day Air Early
name: AM

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 6.-2°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved as necessary for dissolved radiochem and suspended analysis.



Chain of Custody and Analytical Request Record

Company Name: Crow Butte Resources, Inc.
Project Name: Marsland G-8 Samples
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Contact Name: Larry Teahon
Phone/Fax: 308-665-2341
Invoice Address: P.O. Box 169, Crawford, NE 69339
Invoice Contact & Phone: Larry Teahon, 308-665-2215 ext 114
Sample Origin State: _____
Sampler: Brooke Bass, Rhonda Pelton
Quote/Bottle Order: _____

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POT/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Number of Containers				ANALYSIS REQUESTED				Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: Cooler ID(s):	
				Air	Water	Soils/Solids	Other	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	Raw-UF, Pb210 dis and sus				Raw-UF, Th230, U-nat dis and sus
1 BOW2010-2	3-18-11		Water	.5	1	1	1	.5	1	1	1	1	1	1	UPS NDA SWZ
2 BOW2010-3	3-18-11		Water	.5	1	1	1	.5	1	1	1	1	1	1	Client
3 BOW2010-5	3-18-11		Water	.5	1	1	1	.5	1	1	1	1	1	1	Receipt Temp: 6.2 °C
4 BOW2010-6	3-18-11		Water	.5	1	1	1	.5	1	1	1	1	1	1	On Ice: (Yes) No
5															Custody Seal Y N
6															Intact Y N
7															Signature Match Y N
8															
9															
10															

LABORATORY USE ONLY

Received by (print): Rhonda Pelton
Signature: Rhonda Pelton
Date/Time: 3-21-11 10:30am

Received by (print): UPS
Signature: _____
Date/Time: _____

Received by Laboratory: _____
Signature: _____
Date/Time: 3-22-11 9:00

Sample Disposal: Return to Client: No Lab Disposal: YES

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly noted on your analytical report. Visit our web site at www.enrmlab.com for additional information.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 3/18/11

ANALYST: MO

STANDARD CURVE DATA

	BL	.01	.05	.10	99956		
Abs	0.00	.037	.179	.339			
Abs							

SAMPLE #	VOLUME	Df	Abs	mg/L
1 BOW 2010-2	10ml	1	.040	.01
2 BOW 2010-3	10ml	1	.281	.08
3 BOW 2010-5	10ml	1	.014	<1
4 BOW 2010-6	10ml	1	.037	.01
5 BOW 2010-5 Dup	10ml	1	.010	<1
Dup BOW 2010-3 Dup	5ml	2	.144	.08
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

May 19, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030766 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 5 samples for Crow Butte Resources on 3/25/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030766-001	CPW-1	03/24/11 0:00	03/25/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030766-002	BOW-1	03/24/11 0:00	03/25/11	Aqueous	Same As Above
C11030766-003	Well #788	03/24/11 0:00	03/25/11	Aqueous	Same As Above
C11030766-004	Well #705	03/24/11 0:00	03/25/11	Aqueous	Same As Above
C11030766-005	Well #727	03/24/11 0:00	03/25/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11030766

Report Date: 05/19/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-001
Client Sample ID: CPW-1

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	368	mg/L		1		A2320 B	03/25/11 20:25 / jba
Carbonate as CO3	13	mg/L		1		A2320 B	03/25/11 20:25 / jba
Bicarbonate as HCO3	422	mg/L		1		A2320 B	03/25/11 20:25 / jba
Calcium	6	mg/L		1		E200.7	04/05/11 02:07 / cp
Chloride	185	mg/L		1		E300.0	03/29/11 06:22 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	03/28/11 13:11 / jba
Magnesium	2	mg/L		1		E200.7	04/05/11 02:07 / cp
Nitrogen, Ammonia as N	0.24	mg/L		0.05		A4500-NH3 G	03/28/11 15:17 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	03/29/11 14:18 / dc
Potassium	11	mg/L		1		E200.7	04/05/11 02:07 / cp
Silica	15.0	mg/L		0.2		E200.8	03/31/11 08:14 / sml
Sodium	337	mg/L		1		E200.7	04/05/11 02:07 / cp
Sulfate	96	mg/L	D	4		E300.0	03/29/11 06:22 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	1410	umhos/cm		1		A2510 B	03/25/11 14:52 / lmc
pH	8.41	s.u.		0.01		A4500-H B	03/25/11 14:52 / lmc
Solids, Total Dissolved TDS @ 180 C	853	mg/L		10		A2540 C	03/28/11 14:22 / lr

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:14 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 08:14 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 08:14 / sml
Boron	1.3	mg/L		0.1		E200.8	03/31/11 08:14 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:14 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:14 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:14 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:07 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:14 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:14 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:14 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:14 / sml
Selenium	ND	mg/L		0.001		E200.8	03/31/11 08:14 / sml
Uranium	0.0112	mg/L		0.0003		E200.8	03/31/11 08:14 / sml
Uranium, Activity	7.6E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:14 / sml
Zinc	0.01	mg/L		0.01		E200.7	04/05/11 02:07 / cp

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	04/05/11 17:44 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 17:44 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-001
Client Sample ID: CPW-1

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	8.4	pCi/L		0.8		E909.0	04/25/11 13:10 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	04/25/11 13:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/25/11 13:10 / eli-cs
Polonium 210	<1.1	pCi/L	U	1.1		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.8	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	1.1	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	34	pCi/L		0.19		E903.0	05/03/11 11:14 / trs
Radium 226 precision (±)	1.2	pCi/L				E903.0	05/03/11 11:14 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	05/03/11 11:14 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	2.1	pCi/L		1.0		E909.0	05/03/11 05:51 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	05/03/11 05:51 / eli-cs
Lead 210 MDC	1.0	pCi/L				E909.0	05/03/11 05:51 / eli-cs
Polonium 210	0.4	pCi/L		0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.27	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.56	%				Calculation	04/07/11 12:21 / kbh
Anions	14.6	meq/L				Calculation	04/07/11 12:21 / kbh
Cations	15.4	meq/L				Calculation	04/07/11 12:21 / kbh
Solids, Total Dissolved Calculated	877	mg/L				Calculation	04/07/11 12:21 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/07/11 12:21 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-002
Client Sample ID: BOW-1

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	217	mg/L		1		A2320 B	03/25/11 20:34 / jba
Carbonate as CO3	97	mg/L		1		A2320 B	03/25/11 20:34 / jba
Bicarbonate as HCO3	67	mg/L		1		A2320 B	03/25/11 20:34 / jba
Calcium	5	mg/L		1		E200.7	04/05/11 02:23 / cp
Chloride	55	mg/L		1		E300.0	03/29/11 06:38 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/28/11 13:14 / jba
Magnesium	ND	mg/L		1		E200.7	04/05/11 02:23 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	03/28/11 15:25 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	03/29/11 14:20 / dc
Potassium	12	mg/L		1		E200.7	04/05/11 02:23 / cp
Silica	108	mg/L		0.2		E200.7	05/11/11 13:34 / cp
Sodium	156	mg/L		1		E200.7	04/05/11 02:23 / cp
Sulfate	61	mg/L	D	2		E300.0	03/29/11 06:38 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	724	umhos/cm		1		A2510 B	03/25/11 14:53 / lmc
pH	9.88	s.u.		0.01		A4500-H B	03/25/11 14:53 / lmc
Solids, Total Dissolved TDS @ 180 C	508	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:21 / sml
Arsenic	0.017	mg/L		0.001		E200.8	03/31/11 08:21 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 08:21 / sml
Boron	0.1	mg/L		0.1		E200.8	03/31/11 08:21 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:21 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:21 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:21 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:23 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:21 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:21 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:21 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:21 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:21 / sml
Selenium	0.021	mg/L		0.001		E200.8	03/31/11 08:21 / sml
Uranium	0.0024	mg/L		0.0003		E200.8	03/31/11 08:21 / sml
Uranium, Activity	1.6E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:21 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:21 / sml
Zinc	0.04	mg/L		0.01		E200.7	04/05/11 02:23 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 17:49 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 17:49 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-002
Client Sample ID: BOW-1

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/25/11 17:32 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/25/11 17:32 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/25/11 17:32 / eli-cs
Polonium 210	<1.2	pCi/L	U	1.2		E912.0	03/30/11 11:17 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/30/11 11:17 / ep
Polonium 210 MDC	1.2	pCi/L				E912.0	03/30/11 11:17 / ep
Radium 226	0.66	pCi/L		0.14		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.19	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.14	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 12:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 12:25 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 12:25 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.21	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.476	%				Calculation	04/07/11 12:21 / kbh
Anions	7.29	meq/L				Calculation	04/07/11 12:21 / kbh
Cations	7.36	meq/L				Calculation	04/07/11 12:21 / kbh
Solids, Total Dissolved Calculated	567	mg/L				Calculation	04/07/11 12:21 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	04/07/11 12:21 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-003
Client Sample ID: Well #788

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	154	mg/L		1		A2320 B	03/25/11 20:42 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/25/11 20:42 / jba
Bicarbonate as HCO ₃	187	mg/L		1		A2320 B	03/25/11 20:42 / jba
Calcium	34	mg/L		1		E200.7	04/05/11 02:27 / cp
Chloride	3	mg/L		1		E300.0	03/29/11 06:53 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/28/11 13:17 / jba
Magnesium	9	mg/L		1		E200.7	04/05/11 02:27 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 15:27 / dc
Nitrogen, Nitrate+Nitrite as N	2.2	mg/L		0.1		E353.2	03/29/11 14:23 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:27 / cp
Silica	69.2	mg/L		0.2		E200.7	05/11/11 13:50 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:27 / cp
Sulfate	7	mg/L		1		E300.0	03/29/11 06:53 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	307	umhos/cm		1		A2510 B	03/25/11 15:04 / lmc
pH	7.98	s.u.		0.01		A4500-H B	03/25/11 15:04 / lmc
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	03/28/11 14:23 / lr

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Arsenic	0.003	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:28 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:28 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:28 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:27 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:28 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:28 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/31/11 08:28 / sml
Uranium	0.0072	mg/L		0.0003		E200.8	03/31/11 08:28 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:28 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:28 / sml
Zinc	0.07	mg/L		0.01		E200.7	04/05/11 02:27 / cp

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:09 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:09 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-003
Client Sample ID: Well #788

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/25/11 19:44 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/25/11 19:44 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/25/11 19:44 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.67	pCi/L		0.11		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.16	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.11	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	03/31/11 16:17 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	03/31/11 16:17 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	03/31/11 16:17 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 14:36 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 14:36 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 14:36 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	<0.09	pCi/L	U	0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.80	%				Calculation	04/07/11 12:22 / kbh
Anions	3.48	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.36	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	275	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	04/07/11 12:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-004
Client Sample ID: Well #705

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	153	mg/L		1		A2320 B	03/25/11 20:50 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/25/11 20:50 / jba
Bicarbonate as HCO ₃	187	mg/L		1		A2320 B	03/25/11 20:50 / jba
Calcium	33	mg/L		1		E200.7	04/05/11 02:31 / cp
Chloride	3	mg/L		1		E300.0	03/29/11 07:09 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	03/28/11 13:34 / jba
Magnesium	8	mg/L		1		E200.7	04/05/11 02:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 15:29 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	03/29/11 14:25 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:31 / cp
Silica	70.6	mg/L		0.2		E200.7	05/11/11 13:58 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:31 / cp
Sulfate	9	mg/L		1		E300.0	03/29/11 07:09 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	03/25/11 15:07 / lmc
pH	7.94	s.u.		0.01		A4500-H B	03/25/11 15:07 / lmc
Solids, Total Dissolved TDS @ 180 C	216	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:35 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:35 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:35 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:31 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:35 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:35 / sml
Selenium	0.001	mg/L		0.001		E200.8	03/31/11 08:35 / sml
Uranium	0.0068	mg/L		0.0003		E200.8	03/31/11 08:35 / sml
Uranium, Activity	4.6E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:35 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:35 / sml
Zinc	0.08	mg/L		0.01		E200.7	04/05/11 02:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:13 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:13 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-004
Client Sample ID: Well #705

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	04/25/11 21:55 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	04/25/11 21:55 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	04/25/11 21:55 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.32	pCi/L		0.12		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/01/11 08:43 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/01/11 08:43 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/01/11 08:43 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 16:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 16:48 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 16:48 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.14	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.67	%				Calculation	04/07/11 12:22 / kbh
Anions	3.46	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.22	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	268	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.810					Calculation	04/07/11 12:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-005
Client Sample ID: Well #727

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	160	mg/L		1		A2320 B	03/25/11 20:59 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/25/11 20:59 / jba
Bicarbonate as HCO ₃	195	mg/L		1		A2320 B	03/25/11 20:59 / jba
Calcium	30	mg/L		1		E200.7	04/05/11 02:35 / cp
Chloride	5	mg/L		1		E300.0	03/29/11 07:24 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	03/28/11 13:39 / jba
Magnesium	12	mg/L		1		E200.7	04/05/11 02:35 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/28/11 15:31 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	03/29/11 14:38 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 02:35 / cp
Silica	77.8	mg/L		0.2		E200.7	05/11/11 14:02 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 02:35 / cp
Sulfate	9	mg/L		1		E300.0	03/29/11 07:24 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	325	umhos/cm		1		A2510 B	03/25/11 15:09 / lmc
pH	8.05	s.u.		0.01		A4500-H B	03/25/11 15:09 / lmc
Solids, Total Dissolved TDS @ 180 C	243	mg/L		10		A2540 C	03/28/11 14:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 08:42 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 08:42 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 08:42 / sml
Iron	ND	mg/L		0.03		E200.7	04/05/11 02:35 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 08:42 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 08:42 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/31/11 08:42 / sml
Uranium	0.0102	mg/L		0.0003		E200.8	03/31/11 08:42 / sml
Uranium, Activity	6.9E-09	uCi/mL		2.0E-10		E200.8	03/31/11 08:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 08:42 / sml
Zinc	0.28	mg/L		0.01		E200.7	04/05/11 02:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:18 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:18 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030766-005
Client Sample ID: Well #727

Report Date: 05/19/11
Collection Date: 03/24/11
Date Received: 03/25/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/26/11 00:07 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/26/11 00:07 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/26/11 00:07 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	03/30/11 11:18 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	03/30/11 11:18 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	03/30/11 11:18 / ep
Radium 226	0.33	pCi/L		0.12		E903.0	04/04/11 21:16 / dmf
Radium 226 precision (±)	0.13	pCi/L				E903.0	04/04/11 21:16 / dmf
Radium 226 MDC	0.12	pCi/L				E903.0	04/04/11 21:16 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/01/11 08:43 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/01/11 08:43 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/01/11 08:43 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 18:59 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 18:59 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 18:59 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.11	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.51	%				Calculation	04/07/11 12:22 / kbh
Anions	3.65	meq/L				Calculation	04/07/11 12:22 / kbh
Cations	3.47	meq/L				Calculation	04/07/11 12:22 / kbh
Solids, Total Dissolved Calculated	290	mg/L				Calculation	04/07/11 12:22 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	04/07/11 12:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: R144102		
Sample ID: MBLK	3	Method Blank				Run: MANTECH_110325A		03/25/11 15:19		
Alkalinity, Total as CaCO3		3	mg/L	1						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_110325A		03/25/11 15:35		
Alkalinity, Total as CaCO3		213	mg/L	5.0	105	90	110			
Sample ID: C11030765-011AMS		Sample Matrix Spike				Run: MANTECH_110325A		03/25/11 20:08		
Alkalinity, Total as CaCO3		136	mg/L	5.0	107	80	120			
Sample ID: C11030766-005ADUP	3	Sample Duplicate				Run: MANTECH_110325A		03/25/11 21:07		
Alkalinity, Total as CaCO3		162	mg/L	5.0				1.3	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		197	mg/L	5.0				1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110325B		
Sample ID: ICV2_110325_2	Initial Calibration Verification Standard									
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			03/25/11 14:04
Method: A2510 B								Batch: 110325_2_PH-W_555A-2		
Sample ID: MBLK1_110325_2	Method Blank									
Conductivity @ 25 C		0.6	umhos/cm	0.2						Run: ORION555A-2_110325B 03/25/11 14:00
Sample ID: C11030766-002ADUP	Sample Duplicate									
Conductivity @ 25 C		724	umhos/cm	1.0				0.0	10	Run: ORION555A-2_110325B 03/25/11 14:55

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/19/11
Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110328_1_SLDS-TDS-W		
Sample ID: MBLK1_110328		Method Blank					Run: BAL-1_110328B			03/28/11 14:22
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110328		Laboratory Control Sample					Run: BAL-1_110328B			03/28/11 14:22
Solids, Total Dissolved TDS @ 180 C		996	mg/L	10	100	90	110			
Sample ID: C11030766-005BDUP		Sample Duplicate					Run: BAL-1_110328B			03/28/11 14:24
Solids, Total Dissolved TDS @ 180 C		241	mg/L	10				0.9	10	
Sample ID: C11030800-004AMS		Sample Matrix Spike					Run: BAL-1_110328B			03/28/11 14:27
Solids, Total Dissolved TDS @ 180 C		4640	mg/L	10	103	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144144
Sample ID: MBLK		Method Blank								Run: MANTECH_110328A
Fluoride		0.02	mg/L	0.008						03/28/11 09:37
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110328A
Fluoride		1.00	mg/L	0.10	98	90	110			03/28/11 09:43
Sample ID: C11030766-005AMS		Sample Matrix Spike								Run: MANTECH_110328A
Fluoride		1.43	mg/L	0.10	98	80	120			03/28/11 13:46
Sample ID: C11030766-005AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110328A
Fluoride		1.43	mg/L	0.10	98	80	120	0.0	10	03/28/11 13:49

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B		Analytical Run: ORION555A-2_110325B								
Sample ID: ICV1_110325_2	Initial Calibration Verification Standard									
pH		6.93	s.u.	0.010	101	98	102			03/25/11 14:02
Method: A4500-H B		Batch: 110325_2_PH-W_555A-2								
Sample ID: C11030766-002ADUP	Sample Duplicate									
pH		9.88	s.u.	0.010				0.0		Run: ORION555A-2_110325B 03/25/11 14:55

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/19/11
Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-NH3 G										Batch: R144164	
Sample ID: MBLK-4		Method Blank								Run: TECHNICON_110328A	03/28/11 12:11
Nitrogen, Ammonia as N		ND	mg/L	0.02							
Sample ID: LCS-5		Laboratory Control Sample								Run: TECHNICON_110328A	03/28/11 12:13
Nitrogen, Ammonia as N		1.97	mg/L	0.050	99	90	110				
Sample ID: C11030766-005GMS		Sample Matrix Spike								Run: TECHNICON_110328A	03/28/11 15:35
Nitrogen, Ammonia as N		1.76	mg/L	0.050	90	80	120				
Sample ID: C11030766-005GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110328A	03/28/11 15:37
Nitrogen, Ammonia as N		1.82	mg/L	0.050	93	80	120	3.4	10		

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144441										
Sample ID: MB-110404A	6	Method Blank				Run: ICP2-C_110404A			04/04/11 11:29	
Calcium		ND	mg/L	1.0						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Sodium		0.316	mg/L	1.0						
Zinc		ND	mg/L	0.010						
Sample ID: LFB-110404A	6	Laboratory Fortified Blank				Run: ICP2-C_110404A			04/04/11 11:33	
Calcium		46.7	mg/L	0.50	93	85	115			
Iron		0.936	mg/L	0.030	94	85	115			
Magnesium		47.4	mg/L	0.50	95	85	115			
Potassium		44.9	mg/L	0.80	90	85	115			
Sodium		43.8	mg/L	0.50	87	85	115			
Zinc		0.917	mg/L	0.010	92	85	115			
Sample ID: C11030756-001BMS2	6	Sample Matrix Spike				Run: ICP2-C_110404A			04/05/11 01:38	
Calcium		129	mg/L	1.0	96	70	130			
Iron		1.93	mg/L	0.030	94	70	130			
Magnesium		125	mg/L	1.0	92	70	130			
Potassium		120	mg/L	1.0	74	70	130			
Sodium		388	mg/L	1.0	90	70	130			
Zinc		1.93	mg/L	0.010	94	70	130			
Sample ID: C11030756-001BMSD	6	Sample Matrix Spike Duplicate				Run: ICP2-C_110404A			04/05/11 01:42	
Calcium		124	mg/L	1.0	92	70	130	3.3	20	
Iron		1.86	mg/L	0.030	91	70	130	3.7	20	
Magnesium		123	mg/L	1.0	90	70	130	1.6	20	
Potassium		122	mg/L	1.0	76	70	130	1.5	20	
Sodium		394	mg/L	1.0	96	70	130	1.4	20	
Zinc		1.86	mg/L	0.010	90	70	130	3.5	20	
Method: E200.7										
Batch: R145772										
Sample ID: MB-110511A		Method Blank				Run: ICP2-C_110511A			05/11/11 12:29	
Silicon		0.02	mg/L	0.007						
Sample ID: LFB-110511A		Laboratory Fortified Blank				Run: ICP2-C_110511A			05/11/11 12:33	
Silicon		0.409	mg/L	0.10	87	85	115			
Sample ID: C11030766-002CMS2		Sample Matrix Spike				Run: ICP2-C_110511A			05/11/11 13:38	
Silicon		49.9	mg/L	0.10		70	130			A
Sample ID: C11030766-002CMSD		Sample Matrix Spike Duplicate				Run: ICP2-C_110511A			05/11/11 13:42	
Silicon		48.8	mg/L	0.10		70	130	2.3	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29415
Sample ID: MB-29415		Method Blank								Run: ICPMS2-C_110405A 04/05/11 17:32
Uranium		ND	mg/L	6E-05						
Sample ID: LCS2-29415		Laboratory Control Sample								Run: ICPMS2-C_110405A 04/05/11 17:36
Uranium		0.100	mg/L	0.00030	100	85	115			
Sample ID: C11030834-003HMS		Sample Matrix Spike								Run: ICPMS2-C_110405A 04/05/11 18:34
Uranium		0.00478	mg/L	0.00030	106	70	130			
Sample ID: C11030834-003HMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_110405A 04/05/11 18:38
Uranium		0.00475	mg/L	0.00030	105	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144243A
Sample ID: LRB	16	Method Blank					Run: ICPMS4-C_110330A			03/30/11 21:28
Aluminum		0.007	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		5E-05	mg/L	3E-05						
Boron		4E-05	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Lead		ND	mg/L	2E-05						
Manganese		7E-05	mg/L	2E-05						
Mercury		ND	mg/L	2E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		0.0001	mg/L	5E-05						
Selenium		0.0004	mg/L	5E-05						
Silicon		0.004	mg/L	0.0005						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	16	Laboratory Fortified Blank					Run: ICPMS4-C_110330A			03/30/11 21:35
Aluminum		0.0539	mg/L	0.0010	95	85	115			
Arsenic		0.0541	mg/L	0.0010	108	85	115			
Barium		0.0527	mg/L	0.0010	105	85	115			
Boron		0.0513	mg/L	0.0010	103	85	115			
Cadmium		0.0529	mg/L	0.0010	106	85	115			
Chromium		0.0540	mg/L	0.0010	108	85	115			
Copper		0.0548	mg/L	0.0010	110	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Manganese		0.0539	mg/L	0.0010	108	85	115			
Mercury		0.00518	mg/L	0.0010	104	85	115			
Molybdenum		0.0523	mg/L	0.0010	104	85	115			
Nickel		0.0554	mg/L	0.0010	110	85	115			
Selenium		0.0522	mg/L	0.0010	104	85	115			
Silicon		0.575	mg/L	0.0050	109	85	115			
Uranium		0.0524	mg/L	0.00030	105	85	115			
Vanadium		0.0540	mg/L	0.0010	108	85	115			
Sample ID: C11030800-001BMS4	16	Sample Matrix Spike					Run: ICPMS4-C_110330A			03/31/11 08:56
Aluminum		0.266	mg/L	0.10	102	70	130			
Arsenic		0.265	mg/L	0.0010	105	70	130			
Barium		0.281	mg/L	0.10	107	70	130			
Boron		1.64	mg/L	0.10		70	130			A
Cadmium		0.256	mg/L	0.010	102	70	130			
Chromium		0.255	mg/L	0.050	102	70	130			
Copper		0.272	mg/L	0.010	106	70	130			
Lead		0.270	mg/L	0.050	108	70	130			
Manganese		0.271	mg/L	0.010	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144243A										
Sample ID: C11030800-001BMS4 16 Sample Matrix Spike										
						Run: ICPMS4-C_110330A		03/31/11 08:56		
Mercury		0.0272	mg/L	0.0010	108	70	130			
Molybdenum		0.307	mg/L	0.10	108	70	130			
Nickel		0.268	mg/L	0.050	100	70	130			
Selenium		0.377	mg/L	0.0010	104	70	130			
Silicon		13.4	mg/L	0.10		70	130			A
Uranium		1.19	mg/L	0.00030	102	70	130			
Vanadium		0.258	mg/L	0.10	103	70	130			
Sample ID: C11030800-001BMSD 16 Sample Matrix Spike Duplicate										
						Run: ICPMS4-C_110330A		03/31/11 09:03		
Aluminum		0.263	mg/L	0.10	101	70	130	1.1	20	
Arsenic		0.266	mg/L	0.0010	106	70	130	0.3	20	
Barium		0.288	mg/L	0.10	110	70	130	2.6	20	
Boron		1.65	mg/L	0.10		70	130	0.8	20	A
Cadmium		0.257	mg/L	0.010	103	70	130	0.6	20	
Chromium		0.264	mg/L	0.050	106	70	130	3.7	20	
Copper		0.264	mg/L	0.010	103	70	130	2.9	20	
Lead		0.269	mg/L	0.050	108	70	130	0.3	20	
Manganese		0.271	mg/L	0.010	103	70	130	0.0	20	
Mercury		0.0279	mg/L	0.0010	111	70	130	2.7	20	
Molybdenum		0.317	mg/L	0.10	112	70	130	3.2	20	
Nickel		0.274	mg/L	0.050	102	70	130	2.1	20	
Selenium		0.372	mg/L	0.0010	102	70	130	1.1	20	
Silicon		13.4	mg/L	0.10		70	130	0.4	20	A
Uranium		1.20	mg/L	0.00030	103	70	130	0.3	20	
Vanadium		0.268	mg/L	0.10	107	70	130	3.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110328A		
Sample ID: ICV	2	Initial Calibration Verification Standard								03/28/11 12:04
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		40.7	mg/L	1.0	102	90	110			
Method: E300.0								Batch: R144189		
Sample ID: MBLK	2	Method Blank								03/28/11 12:19
Chloride		ND	mg/L	0.06						
Sulfate		0.3	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank								03/28/11 12:50
Chloride		12.5	mg/L	1.0	100	90	110			
Sulfate		51.5	mg/L	1.0	102	90	110			
Sample ID: LFBD	2	Laboratory Fortified Blank								03/28/11 13:06
Chloride		12.5	mg/L	1.0	100	90	110			
Sulfate		51.2	mg/L	1.0	102	90	110			
Sample ID: LCS	2	Laboratory Control Sample								03/28/11 20:52
Chloride		9.87	mg/L	1.0	99	90	110			
Sulfate		40.3	mg/L	1.0	100	90	110			
Sample ID: C11030765-010AMS	2	Sample Matrix Spike								03/29/11 05:21
Chloride		24.5	mg/L	1.0	101	80	120			
Sulfate		135	mg/L	1.6	101	80	120			
Sample ID: C11030765-010AMSD	2	Sample Matrix Spike Duplicate								03/29/11 05:36
Chloride		24.8	mg/L	1.0	103	80	120	1.3	10	
Sulfate		136	mg/L	1.6	102	80	120	0.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/19/11
Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144190
Sample ID: LCS-6		Laboratory Control Sample								Run: TECHNICON_110329A 03/29/11 12:53
Nitrogen, Nitrate+Nitrite as N		2.68	mg/L	0.10	104	90	110			
Sample ID: MBLK-5		Method Blank								Run: TECHNICON_110329A 03/29/11 13:05
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
Sample ID: C11030766-004GMS		Sample Matrix Spike								Run: TECHNICON_110329A 03/29/11 14:28
Nitrogen, Nitrate+Nitrite as N		3.48	mg/L	0.10	106	90	110			
Sample ID: C11030766-004GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110329A 03/29/11 14:30
Nitrogen, Nitrate+Nitrite as N		3.52	mg/L	0.10	108	90	110	1.1	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5322		
Sample ID: C11040542-009CMS		Sample Matrix Spike				Run: G542M_110427B				05/03/11 09:31
Radium 226		13	pCi/L	104		70	130			
Sample ID: C11040542-009CMSD		Sample Matrix Spike Duplicate				Run: G542M_110427B				05/03/11 09:31
Radium 226		14	pCi/L	107		70	130	3.1	24.9	
Sample ID: MB-RA226-5322	3	Method Blank				Run: G542M_110427B				05/03/11 11:14
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5322		Laboratory Control Sample				Run: G542M_110427B				05/03/11 11:14
Radium 226		6.2	pCi/L	102		85	115			
Method: E903.0								Batch: RA226-5263		
Sample ID: C11030766-003DMS		Sample Matrix Spike				Run: TENNELEC-3_110328A				04/04/11 21:16
Radium 226		13	pCi/L	100		70	130			
Sample ID: C11030766-003DMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_110328A				04/04/11 21:16
Radium 226		13	pCi/L	99		70	130	0.7	24.1	
Sample ID: MB-RA226-5263	3	Method Blank				Run: TENNELEC-3_110328A				04/04/11 23:03
Radium 226		0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5263		Laboratory Control Sample				Run: TENNELEC-3_110328A				04/04/11 23:02
Radium 226		5.9	pCi/L	92		85	115			
Method: E903.0								Batch: 29415		
Sample ID: C11030834-003HMS		Sample Matrix Spike				Run: TENNELEC-3_110404A				04/11/11 14:34
Radium 226		13	pCi/L	117		70	130			
Sample ID: C11030834-003HMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_110404A				04/11/11 14:34
Radium 226		12	pCi/L	114		70	130	4.9	23	
Sample ID: LCS-29415		Laboratory Control Sample				Run: TENNELEC-3_110404A				04/11/11 14:34
Radium 226		60	pCi/L	100		85	115			
Sample ID: MB-29415	3	Method Blank				Run: TENNELEC-3_110404A				04/11/11 14:34
Radium 226		0.9	pCi/L							U
Radium 226 precision (±)		0.8	pCi/L							
Radium 226 MDC		1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1355		
Sample ID: LCS-RA-TH-ISO-1355	Laboratory Control Sample			Run: EGG-ORTEC_110329B		03/31/11 16:17				
Thorium 230		5.4	pCi/L	92	70	130				
Sample ID: C11030468-001DMS	Sample Matrix Spike			Run: EGG-ORTEC_110329B		03/31/11 16:17				
Thorium 230		13	pCi/L	96	70	130				
Sample ID: C11030468-001DMSD	Sample Matrix Spike Duplicate			Run: EGG-ORTEC_110329B		03/31/11 16:17				
Thorium 230		13	pCi/L	100	70	130	3.3	35.6		
Sample ID: MB-RA-TH-ISO-1355	3	Method Blank		Run: EGG-ORTEC_110329B		04/01/11 08:43				
Thorium 230		0.04	pCi/L	U						
Thorium 230 precision (±)		0.09	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E908.0								Batch: 29415		
Sample ID: C11030834-003HMS	Sample Matrix Spike			Run: EGG-ORTEC_110401A		04/05/11 09:08				
Thorium 230		8.8	pCi/L	103	70	130				
Sample ID: C11030834-003HMSD	Sample Matrix Spike Duplicate			Run: EGG-ORTEC_110401A		04/05/11 09:08				
Thorium 230		11	pCi/L	132	70	130	26	48.6	S	
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MS, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: LCS-29415	Laboratory Control Sample			Run: EGG-ORTEC_110401A		04/05/11 09:08				
Thorium 230		9.9	pCi/L	102	70	130				
Sample ID: MB-29415	3	Method Blank		Run: EGG-ORTEC_110401A		04/05/11 09:08				
Thorium 230		-0.1	pCi/L	U						
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0095		
Sample ID: T11030080-001EMSD	Sample Matrix Spike Duplicate			Run: SUB-T40083		04/23/11 09:46				
Lead 210	48	pCi/L		89	70	130	2.7	16.2		
Sample ID: T11030080-001EMS	Sample Matrix Spike			Run: SUB-T40083		04/23/11 07:35				
Lead 210	49	pCi/L		91	70	130				
Sample ID: LCS-PB-210-0095	Laboratory Control Sample			Run: SUB-T40083		04/23/11 03:12				
Lead 210	78	pCi/L		109	70	130				
Sample ID: MB-PB-210-0095	3	Method Blank		Run: SUB-T40083		04/23/11 01:00				
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Method: E909.0								Batch: 13668		
Sample ID: T11030159-001HMSD	Sample Matrix Spike Duplicate			Run: SUB-T40226		05/03/11 10:13				
Lead 210	83	pCi/L		84	70	130	1.1	15.9		
Sample ID: MB-13668	3	Method Blank		Run: SUB-T40226		05/03/11 01:28				
Lead 210		-0.6	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		9	pCi/L							
Sample ID: LCS-13668	Laboratory Control Sample			Run: SUB-T40226		05/03/11 03:39				
Lead 210	280	pCi/L		78	70	130				
Sample ID: T11030159-001HMS	Sample Matrix Spike			Run: SUB-T40226		05/03/11 08:02				
Lead 210	82	pCi/L		84	70	130				

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/19/11

Project: Marsland Baseline Samples

Work Order: C11030766

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0357		
Sample ID: C11030766-005FMS		Sample Matrix Spike				Run: EGG-ORTEC_110328C			03/30/11 11:18	
Polonium 210		9.4	pCi/L	74		70	130			
Sample ID: C11030766-005FMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110328C			03/30/11 11:18	
Polonium 210		7.6	pCi/L	60		70	130	21	79.6	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MS are acceptable the batch is approved.										
Sample ID: MB-PO210-0357	3	Method Blank				Run: EGG-ORTEC_110328C			03/30/11 11:18	
Polonium 210		-0.01	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0357		Laboratory Control Sample				Run: EGG-ORTEC_110328C			03/30/11 11:18	
Polonium 210		6.2	pCi/L	97		70	130			
Method: E912.0								Batch: R144922		
Sample ID: LCS-29258		Laboratory Control Sample				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		29	pCi/L	96		70	130			
Sample ID: MB-29258	3	Method Blank				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		-0.05	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: C11030766-001HMS		Sample Matrix Spike				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		5.1	pCi/L	89		70	130			
Sample ID: C11030766-001HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110412A			04/14/11 08:57	
Polonium 210		5.1	pCi/L	88		70	130	1.7	71.5	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11030766

Login completed by: Edith McPike
Reviewed by: BL2000\hackerman
Reviewed Date: 3/28/2011

Date Received: 3/25/2011

Received by: ha

Carrier Next Day Air Saver
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 6.8°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples to be filtered and preserved in the laboratory for dissolved radionuclides.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.		Project Name: Marsland Baseline Samples		Sample Origin State: _____		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 169 Crawford, NE 69339		Contact Name: Larry Teahon		Phone/Fax: 308-665-2341		Sampler: (Please Print) Brooke Bass Rhonda Pelton	
Invoice Address: P.O. Box 169 Crawford, NE 69339		Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114		Purchase Order: 1125		Quote/Bottle Order: _____	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Shipped by: UPS NDA 31X Cooler ID(s): VORXUS	
Number of Containers Air Water Solids Vegetation Bioassay Other		MATRIX		Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and $\mu\text{Ci/ml}$ and radiometrics as pCi/L.		Receipt Temp 6.8 °C On Ice: (Yes) No	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		Custody Seal Y N Intact Y N Signature Match Y N	
1	CPW-1	3/24/11					
2	BOW-1	3/24/11					
3	Well #788	3/24/11					
4	Well #705	3/24/11					
5	Well #727	3/24/11					
6							
7							
8							
9							
10							
Relinquished by (print): Brooke Bass		Signature: Brooke Bass		Date/Time: 3/24/11		Received by (print): _____	
Relinquished by (print): _____		Signature: _____		Date/Time: _____		Received by (print): _____	
Sample Disposal: Return to Client: <u>No</u>		Lab Disposal: YES		Received by Laboratory: _____		Date/Time: 3-25-11 9:30	
Custody Record MUST be Signed		Signature: _____		Date/Time: _____		Signature: _____	

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.eneroviab.com for additional information. downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 3/24/11

ANALYST: JM

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.1			
Abs	0	.037	.198	.410			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 705	10 ml	1	.004	<0.01
2 727	10 ml	1	.001	<0.01
3 788	10 ml	1	-.003	<0.01
4 BOW-1	10 ml	1	.106	0.03
5 CPW 2010-1	10 ml	1	.000	<0.01
Dup				
6 705 Dup	10 ml	1	.004	<0.01
7 CPW 2010-1 Dup	10 ml	1	.000	<0.01
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

May 11, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030834 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 3 samples for Crow Butte Resources on 3/29/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030834-001	Well #747	03/25/11 0:00	03/29/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030834-002	E. Drillers Pond	03/25/11 0:00	03/29/11	Aqueous	Same As Above
C11030834-003	W. Drillers Pond	03/25/11 0:00	03/29/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11030834

Report Date: 05/11/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-001
Client Sample ID: Well #747

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	131	mg/L		1		A2320 B	03/29/11 18:48 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/29/11 18:48 / jba
Bicarbonate as HCO ₃	160	mg/L		1		A2320 B	03/29/11 18:48 / jba
Calcium	31	mg/L		1		E200.7	04/05/11 15:40 / cp
Chloride	3	mg/L		1		E300.0	03/30/11 22:57 / ljl
Fluoride	1.0	mg/L		0.1		A4500-F C	04/04/11 11:11 / lr
Magnesium	7	mg/L		1		E200.7	04/05/11 15:40 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/31/11 12:37 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/29/11 16:50 / dc
Potassium	3	mg/L		1		E200.7	04/05/11 15:40 / cp
Silica	85.5	mg/L		0.2		E200.7	04/05/11 15:40 / cp
Sodium	13	mg/L		1		E200.7	04/05/11 15:40 / cp
Sulfate	5	mg/L		1		E300.0	03/30/11 22:57 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	255	umhos/cm		1		A2510 B	03/29/11 14:28 / lr
pH	8.07	s.u.		0.01		A4500-H B	03/29/11 14:28 / lr
Solids, Total Dissolved TDS @ 180 C	202	mg/L		10		A2540 C	03/29/11 15:34 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Arsenic	0.005	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 10:33 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 10:33 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 10:33 / sml
Iron	ND	mg/L		0.03		E200.8	03/31/11 10:33 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 10:33 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 10:33 / sml
Selenium	ND	mg/L		0.001		E200.8	03/31/11 10:33 / sml
Uranium	0.0101	mg/L		0.0003		E200.8	03/31/11 10:33 / sml
Uranium, Activity	6.8E-09	uCi/mL		2.0E-10		E200.8	03/31/11 10:33 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 10:33 / sml
Zinc	0.07	mg/L		0.01		E200.7	04/05/11 15:40 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:22 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:22 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-001
Client Sample ID: Well #747

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	04/26/11 04:30 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	04/26/11 04:30 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	04/26/11 04:30 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	0.20	pCi/L		0.1		E903.0	04/06/11 21:14 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/06/11 21:14 / ep
Radium 226 MDC	0.1	pCi/L				E903.0	04/06/11 21:14 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/03/11 21:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/03/11 21:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/03/11 21:10 / eli-cs
Polonium 210	0.3	pCi/L		0.2		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	<0.09	pCi/L	U	0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.49	%				Calculation	04/07/11 12:42 / kbh
Anions	2.94	meq/L				Calculation	04/07/11 12:42 / kbh
Cations	2.75	meq/L				Calculation	04/07/11 12:42 / kbh
Solids, Total Dissolved Calculated	255	mg/L				Calculation	04/07/11 12:42 / kbh
TDS Balance (0.80 - 1.20)	0.790					Calculation	04/07/11 12:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-002
Client Sample ID: E. Drillers Pond

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	156	mg/L		1		A2320 B	03/29/11 18:56 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/29/11 18:56 / jba
Bicarbonate as HCO ₃	191	mg/L		1		A2320 B	03/29/11 18:56 / jba
Calcium	34	mg/L		1		E200.7	04/05/11 15:52 / cp
Chloride	3	mg/L		1		E300.0	03/30/11 23:13 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/04/11 11:25 / lr
Magnesium	9	mg/L		1		E200.7	04/05/11 15:52 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/31/11 12:45 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	03/29/11 16:53 / dc
Potassium	3	mg/L		1		E200.7	04/05/11 15:52 / cp
Silica	79.9	mg/L		0.2		E200.7	04/05/11 15:52 / cp
Sodium	19	mg/L		1		E200.7	04/05/11 15:52 / cp
Sulfate	7	mg/L		1		E300.0	03/30/11 23:13 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	304	umhos/cm		1		A2510 B	03/29/11 14:30 / lr
pH	7.93	s.u.		0.01		A4500-H B	03/29/11 14:30 / lr
Solids, Total Dissolved TDS @ 180 C	246	mg/L		10		A2540 C	03/29/11 15:34 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 10:40 / sml
Arsenic	0.003	mg/L		0.001		E200.8	03/31/11 10:40 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 10:40 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 10:40 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 10:40 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 10:40 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 10:40 / sml
Iron	ND	mg/L		0.03		E200.8	03/31/11 10:40 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 10:40 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 10:40 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 10:40 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 10:40 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 10:40 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/31/11 10:40 / sml
Uranium	0.0090	mg/L		0.0003		E200.8	03/31/11 10:40 / sml
Uranium, Activity	6.1E-09	uCi/mL		2.0E-10		E200.8	03/31/11 10:40 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 10:40 / sml
Zinc	0.01	mg/L		0.01		E200.7	04/05/11 15:52 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:26 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:26 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-002
Client Sample ID: E. Drillers Pond

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	04/26/11 06:41 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	04/26/11 06:41 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	04/26/11 06:41 / eli-cs
Polonium 210	2.0	pCi/L		0.7		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	1.1	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	0.26	pCi/L		0.09		E903.0	04/06/11 21:14 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/06/11 21:14 / ep
Radium 226 MDC	0.09	pCi/L				E903.0	04/06/11 21:14 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/05/11 10:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/05/11 10:25 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/05/11 10:25 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.4	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	0.17	pCi/L		0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.56	%				Calculation	04/07/11 12:42 / kbh
Anions	3.45	meq/L				Calculation	04/07/11 12:42 / kbh
Cations	3.35	meq/L				Calculation	04/07/11 12:42 / kbh
Solids, Total Dissolved Calculated	275	mg/L				Calculation	04/07/11 12:42 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	04/07/11 12:42 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-003
Client Sample ID: W. Drillers Pond

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	148	mg/L		1		A2320 B	03/29/11 19:04 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	03/29/11 19:04 / jba
Bicarbonate as HCO ₃	181	mg/L		1		A2320 B	03/29/11 19:04 / jba
Calcium	30	mg/L		1		E200.7	04/05/11 16:00 / cp
Chloride	2	mg/L		1		E300.0	03/30/11 23:28 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/04/11 11:29 / lr
Magnesium	8	mg/L		1		E200.7	04/05/11 16:00 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	03/31/11 12:47 / dc
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	03/29/11 16:55 / dc
Potassium	4	mg/L		1		E200.7	04/05/11 16:00 / cp
Silica	81.1	mg/L		0.2		E200.7	04/05/11 16:00 / cp
Sodium	22	mg/L		1		E200.7	04/05/11 16:00 / cp
Sulfate	9	mg/L		1		E300.0	03/30/11 23:28 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	290	umhos/cm		1		A2510 B	03/29/11 14:32 / lr
pH	7.95	s.u.		0.01		A4500-H B	03/29/11 14:32 / lr
Solids, Total Dissolved TDS @ 180 C	226	mg/L		10		A2540 C	03/29/11 15:35 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 11:14 / sml
Arsenic	0.006	mg/L		0.001		E200.8	03/31/11 11:14 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 11:14 / sml
Boron	ND	mg/L		0.1		E200.8	03/31/11 11:14 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 11:14 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 11:14 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 11:14 / sml
Iron	ND	mg/L		0.03		E200.8	03/31/11 11:14 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 11:14 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 11:14 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 11:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 11:14 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 11:14 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/31/11 11:14 / sml
Uranium	0.0064	mg/L		0.0003		E200.8	03/31/11 11:14 / sml
Uranium, Activity	4.4E-09	uCi/mL		2.0E-10		E200.8	03/31/11 11:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 11:14 / sml
Zinc	0.02	mg/L		0.01		E200.7	04/05/11 16:00 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 18:30 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 18:30 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030834-003
Client Sample ID: W. Drillers Pond

Report Date: 05/11/11
Collection Date: 03/25/11
Date Received: 03/29/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	04/26/11 02:18 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	04/26/11 02:18 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	04/26/11 02:18 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/21/11 09:10 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/21/11 09:10 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/21/11 09:10 / ep
Radium 226	0.16	pCi/L		0.10		E903.0	04/06/11 21:14 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/06/11 21:14 / ep
Radium 226 MDC	0.10	pCi/L				E903.0	04/06/11 21:14 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/05/11 12:37 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/05/11 12:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/05/11 12:37 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/14/11 08:57 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/14/11 08:57 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/14/11 08:57 / ep
Radium 226	<0.09	pCi/L	U	0.09		E903.0	04/11/11 14:34 / plj
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/11/11 14:34 / plj
Radium 226 MDC	0.09	pCi/L				E903.0	04/11/11 14:34 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/05/11 09:08 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/05/11 09:08 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/05/11 09:08 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.14	%				Calculation	04/07/11 12:43 / kbh
Anions	3.33	meq/L				Calculation	04/07/11 12:43 / kbh
Cations	3.19	meq/L				Calculation	04/07/11 12:43 / kbh
Solids, Total Dissolved Calculated	272	mg/L				Calculation	04/07/11 12:43 / kbh
TDS Balance (0.80 - 1.20)	0.830					Calculation	04/07/11 12:43 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144195
Sample ID: MBLK										
	3	Method Blank								Run: MANTECH_110329A 03/29/11 16:43
Alkalinity, Total as CaCO3		2	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		2	mg/L		1					
Sample ID: LCS										
		Laboratory Control Sample								Run: MANTECH_110329A 03/29/11 16:59
Alkalinity, Total as CaCO3		213	mg/L	5.0	106	90	110			
Sample ID: C11030834-003ADUP										
	3	Sample Duplicate								Run: MANTECH_110329A 03/29/11 19:12
Alkalinity, Total as CaCO3		148	mg/L	5.0				0.5	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		180	mg/L	5.0				0.5	10	
Sample ID: C11030834-003AMS										
		Sample Matrix Spike								Run: MANTECH_110329A 03/29/11 19:20
Alkalinity, Total as CaCO3		281	mg/L	5.0	106	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110329A		
Sample ID: ICV2_110329_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			03/29/11 13:35
Method: A2510 B								Batch: 110329_1_PH-W_555A-2		
Sample ID: MBLK1_110329_1	Method Blank									
Conductivity @ 25 C		0.5	umhos/cm	0.2						Run: ORION555A-2_110329A 03/29/11 13:31
Sample ID: C11030842-001ADUP	Sample Duplicate									
Conductivity @ 25 C		2830	umhos/cm	1.0				0.1	10	Run: ORION555A-2_110329A 03/29/11 14:39

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/11/11
Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110329_1_SLDS-TDS-W		
Sample ID: MBLK1_110329		Method Blank					Run: BAL-1_110329B			03/29/11 15:31
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110329		Laboratory Control Sample					Run: BAL-1_110329B			03/29/11 15:31
Solids, Total Dissolved TDS @ 180 C		997	mg/L	10	100	90	110			
Sample ID: C11030828-001BDUP		Sample Duplicate					Run: BAL-1_110329B			03/29/11 15:34
Solids, Total Dissolved TDS @ 180 C		204	mg/L	10				0.4	10	
Sample ID: C11030834-003BMS		Sample Matrix Spike					Run: BAL-1_110329B			03/29/11 15:35
Solids, Total Dissolved TDS @ 180 C		2230	mg/L	10	100	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144428
Sample ID: MBLK		Method Blank								Run: MANTECH_110404A
Fluoride		0.02	mg/L	0.008						04/04/11 10:44
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110404A
Fluoride		1.04	mg/L	0.10	102	90	110			04/04/11 10:46
Sample ID: C11030834-001AMS		Sample Matrix Spike								Run: MANTECH_110404A
Fluoride		2.00	mg/L	0.10	102	80	120			04/04/11 11:14
Sample ID: C11030834-001AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110404A
Fluoride		2.00	mg/L	0.10	102	80	120	0.0	10	04/04/11 11:21

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110329A		
Sample ID: ICV1_110329_1		Initial Calibration Verification Standard						03/29/11 13:33		
pH		6.88	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 110329_1_PH-W_555A-2		
Sample ID: C11030842-001ADUP		Sample Duplicate				Run: ORION555A-2_110329A		03/29/11 14:39		
pH		8.04	s.u.	0.010				0.7	3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R144300
Sample ID: MBLK-3 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_110331A 03/31/11 11:23
Sample ID: LCS-4 Nitrogen, Ammonia as N		Laboratory Control Sample 1.93	mg/L	0.050	96	90	110			Run: TECHNICON_110331A 03/31/11 11:25
Sample ID: C11030834-001GMS Nitrogen, Ammonia as N		Sample Matrix Spike 1.74	mg/L	0.050	89	80	120			Run: TECHNICON_110331A 03/31/11 12:39
Sample ID: C11030834-001GMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.77	mg/L	0.050	90	80	120	1.7	10	Run: TECHNICON_110331A 03/31/11 12:41

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144494A										
Sample ID: C11030834-001CMS2	6	Sample Matrix Spike					Run: ICP2-C_110405A			04/05/11 15:44
Calcium		132	mg/L	1.0	98	70	130			
Magnesium		106	mg/L	1.0	97	70	130			
Potassium		92.7	mg/L	1.0	88	70	130			
Silicon		40.6	mg/L	0.10		70	130			A
Sodium		114	mg/L	1.0	98	70	130			
Zinc		2.01	mg/L	0.010	95	70	130			
Sample ID: C11030834-001CMSD	6	Sample Matrix Spike Duplicate					Run: ICP2-C_110405A			04/05/11 15:48
Calcium		133	mg/L	1.0	100	70	130	0.9	20	
Magnesium		106	mg/L	1.0	98	70	130	0.4	20	
Potassium		92.4	mg/L	1.0	88	70	130	0.3	20	
Silicon		40.8	mg/L	0.10		70	130	0.4	20	A
Sodium		114	mg/L	1.0	99	70	130	0.4	20	
Zinc		2.04	mg/L	0.010	97	70	130	1.9	20	
Sample ID: MB-110405A	6	Method Blank					Run: ICP2-C_110405A			04/05/11 14:35
Calcium		ND	mg/L		0.2					
Magnesium		ND	mg/L		0.05					
Potassium		ND	mg/L		0.02					
Silicon		ND	mg/L		0.007					
Sodium		ND	mg/L		0.3					
Zinc		ND	mg/L		0.001					
Sample ID: LFB-110405A	6	Laboratory Fortified Blank					Run: ICP2-C_110405A			04/05/11 14:39
Calcium		48.7	mg/L	0.50	97	85	115			
Magnesium		49.4	mg/L	0.50	99	85	115			
Potassium		43.2	mg/L	0.50	86	85	115			
Silicon		0.427	mg/L	0.10	91	85	115			
Sodium		47.6	mg/L	0.50	95	85	115			
Zinc		0.957	mg/L	0.010	96	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/11/11
Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29415
Sample ID: MB-29415		Method Blank								Run: ICPMS2-C_110405A 04/05/11 17:32
Uranium		ND	mg/L	6E-05						
Sample ID: LCS2-29415		Laboratory Control Sample								Run: ICPMS2-C_110405A 04/05/11 17:36
Uranium		0.100	mg/L	0.00030	100	85	115			
Sample ID: C11030834-003HMS		Sample Matrix Spike								Run: ICPMS2-C_110405A 04/05/11 18:34
Uranium		0.00478	mg/L	0.00030	106	70	130			
Sample ID: C11030834-003HMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_110405A 04/05/11 18:38
Uranium		0.00475	mg/L	0.00030	105	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R144243A		
Sample ID: LRB	16	Method Blank				Run: ICPMS4-C_110330A			03/30/11 21:28	
Aluminum		0.007	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		5E-05	mg/L	3E-05						
Boron		4E-05	mg/L							
Cadmium		ND	mg/L	7E-05						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.006	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Manganese		7E-05	mg/L	2E-05						
Mercury		ND	mg/L	2E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		0.0001	mg/L	5E-05						
Selenium		0.0004	mg/L	5E-05						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Sample ID: LFB	16	Laboratory Fortified Blank				Run: ICPMS4-C_110330A			03/30/11 21:35	
Aluminum		0.0539	mg/L	0.0010	95	85	115			
Arsenic		0.0541	mg/L	0.0010	108	85	115			
Barium		0.0527	mg/L	0.0010	105	85	115			
Boron		0.0513	mg/L	0.0010	103	85	115			
Cadmium		0.0529	mg/L	0.0010	106	85	115			
Chromium		0.0540	mg/L	0.0010	108	85	115			
Copper		0.0548	mg/L	0.0010	110	85	115			
Iron		1.26	mg/L	0.012	101	85	115			
Lead		0.0532	mg/L	0.0010	106	85	115			
Manganese		0.0539	mg/L	0.0010	108	85	115			
Mercury		0.00518	mg/L	0.0010	104	85	115			
Molybdenum		0.0523	mg/L	0.0010	104	85	115			
Nickel		0.0554	mg/L	0.0010	110	85	115			
Selenium		0.0522	mg/L	0.0010	104	85	115			
Uranium		0.0524	mg/L	0.00030	105	85	115			
Vanadium		0.0540	mg/L	0.0010	108	85	115			
Sample ID: C11030834-003CMS4	16	Sample Matrix Spike				Run: ICPMS4-C_110330A			03/31/11 11:21	
Aluminum		0.0469	mg/L	0.0010	92	70	130			
Arsenic		0.0582	mg/L	0.0010	105	70	130			
Barium		0.154	mg/L	0.10	104	70	130			
Boron		0.0804	mg/L	0.0010	89	70	130			
Cadmium		0.0521	mg/L	0.010	104	70	130			
Chromium		0.0505	mg/L	0.0010	101	70	130			
Copper		0.0513	mg/L	0.010	102	70	130			
Iron		1.25	mg/L	0.030	100	70	130			
Lead		0.0518	mg/L	0.050	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144243A
Sample ID: C11030834-003CMS4 16 Sample Matrix Spike										Run: ICPMS4-C_110330A 03/31/11 11:21
Manganese		0.0511	mg/L	0.010	102	70	130			
Mercury		0.00531	mg/L	0.0010	106	70	130			
Molybdenum		0.0502	mg/L	0.0010	98	70	130			
Nickel		0.0503	mg/L	0.0010	100	70	130			
Selenium		0.0560	mg/L	0.0010	109	70	130			
Uranium		0.0576	mg/L	0.00030	102	70	130			
Vanadium		0.0597	mg/L	0.0010	101	70	130			
Sample ID: C11030834-003CMSD 16 Sample Matrix Spike Duplicate										Run: ICPMS4-C_110330A 03/31/11 11:28
Aluminum		0.0468	mg/L	0.0010	92	70	130	0.1	20	
Arsenic		0.0582	mg/L	0.0010	105	70	130	0.1	20	
Barium		0.154	mg/L	0.10	104	70	130	0.1	20	
Boron		0.0825	mg/L	0.0010	93	70	130	2.6	20	
Cadmium		0.0524	mg/L	0.010	105	70	130	0.5	20	
Chromium		0.0497	mg/L	0.0010	99	70	130	1.7	20	
Copper		0.0511	mg/L	0.010	101	70	130	0.3	20	
Iron		1.23	mg/L	0.030	98	70	130	1.9	20	
Lead		0.0519	mg/L	0.050	104	70	130	0.3	20	
Manganese		0.0512	mg/L	0.010	102	70	130	0.2	20	
Mercury		0.00504	mg/L	0.0010	101	70	130	5.3	20	
Molybdenum		0.0522	mg/L	0.0010	102	70	130	3.9	20	
Nickel		0.0492	mg/L	0.0010	98	70	130	2.2	20	
Selenium		0.0557	mg/L	0.0010	108	70	130	0.6	20	
Uranium		0.0586	mg/L	0.00030	104	70	130	1.6	20	
Vanadium		0.0592	mg/L	0.0010	100	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R144276		
Sample ID: LCS	2	Laboratory Control Sample				Run: IC2-C_110330A			03/30/11 12:09	
Chloride		9.95	mg/L	1.0	100	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			
Sample ID: MBLK	2	Method Blank				Run: IC2-C_110330A			03/30/11 12:25	
Chloride		ND	mg/L	0.06						
Sulfate		0.3	mg/L	0.2						
Sample ID: LFB	2	Laboratory Fortified Blank				Run: IC2-C_110330A			03/30/11 12:56	
Chloride		12.4	mg/L	1.0	99	90	110			
Sulfate		50.6	mg/L	1.0	101	90	110			
Sample ID: C11030827-002CMS	2	Sample Matrix Spike				Run: IC2-C_110330A			03/30/11 21:25	
Chloride		61.1	mg/L	1.0	103	80	120			
Sulfate		1140	mg/L	4.0		80	120			A
Sample ID: C11030827-002CMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_110330A			03/30/11 21:40	
Chloride		60.8	mg/L	1.0	103	80	120	0.4	10	
Sulfate		1130	mg/L	4.0		80	120	0.9	10	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/11/11
Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144190
Sample ID: MBLK-5 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_110329A 03/29/11 13:05
Sample ID: LCS-99 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.70	mg/L	0.10	108	90	110			Run: TECHNICON_110329A 03/29/11 16:58
Sample ID: C11030834-002GMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 3.11	mg/L	0.10	109	90	110			Run: TECHNICON_110329A 03/29/11 17:05
Sample ID: C11030834-002GMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 3.18	mg/L	0.10	113	90	110	2.2	10	Run: TECHNICON_110329A 03/29/11 17:08 S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5269		
Sample ID: C11030834-001DMS		Sample Matrix Spike					Run: TENNELEC-3_110330B			04/06/11 21:14
Radium 226		12	pCi/L	93		70	130			
Sample ID: C11030834-001DMSD		Sample Matrix Spike Duplicate					Run: TENNELEC-3_110330B			04/06/11 21:14
Radium 226		10	pCi/L	78		70	130	18	25.1	
Sample ID: MB-RA226-5269	3	Method Blank					Run: TENNELEC-3_110330B			04/06/11 22:53
Radium 226		0.05	pCi/L							U
Radium 226 precision (±)		0.07	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5269		Laboratory Control Sample					Run: TENNELEC-3_110330B			04/06/11 22:53
Radium 226		6.3	pCi/L	99		85	115			
Method: E903.0								Batch: 29415		
Sample ID: C11030834-003HMS		Sample Matrix Spike					Run: TENNELEC-3_110404A			04/11/11 14:34
Radium 226		13	pCi/L	117		70	130			
Sample ID: C11030834-003HMSD		Sample Matrix Spike Duplicate					Run: TENNELEC-3_110404A			04/11/11 14:34
Radium 226		12	pCi/L	114		70	130	4.9	23	
Sample ID: LCS-29415		Laboratory Control Sample					Run: TENNELEC-3_110404A			04/11/11 14:34
Radium 226		60	pCi/L	100		85	115			
Sample ID: MB-29415	3	Method Blank					Run: TENNELEC-3_110404A			04/11/11 14:34
Radium 226		0.9	pCi/L							U
Radium 226 precision (±)		0.8	pCi/L							
Radium 226 MDC		1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0 Batch: 29415										
Sample ID: C11030834-003HMS		Sample Matrix Spike								
Thorium 230		8.8	pCi/L	103		70	130			04/05/11 09:08
Sample ID: C11030834-003HMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	132		70	130	26	48.6	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MS, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: LCS-29415		Laboratory Control Sample								
Thorium 230		9.9	pCi/L	102		70	130			04/05/11 09:08
Sample ID: MB-29415	3	Method Blank								
Thorium 230		-0.1	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.3	pCi/L							
Method: E908.0 Batch: RA-TH-ISO-1358										
Sample ID: LCS-RA-TH-ISO-1358		Laboratory Control Sample								
Thorium 230		5.6	pCi/L	98		70	130			04/07/11 16:19
Sample ID: C11030927-006DMS		Sample Matrix Spike								
Thorium 230		14	pCi/L	124		70	130			04/07/11 16:19
Sample ID: C11030927-006DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	97		70	130	24	36.4	
Sample ID: MB-RA-TH-ISO-1358	3	Method Blank								
Thorium 230		0.001	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0095		
Sample ID: T11030080-001EMSD	Sample Matrix Spike Duplicate			Run: SUB-T40083		04/23/11 09:46				
Lead 210	48	pCi/L		89	70	130	2.7	16.2		
Sample ID: T11030080-001EMS	Sample Matrix Spike			Run: SUB-T40083		04/23/11 07:35				
Lead 210	49	pCi/L		91	70	130				
Sample ID: LCS-PB-210-0095	Laboratory Control Sample			Run: SUB-T40083		04/23/11 03:12				
Lead 210	78	pCi/L		109	70	130				
Sample ID: MB-PB-210-0095	3	Method Blank		Run: SUB-T40083		04/23/11 01:00				
Lead 210		-0.4	pCi/L	U						
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Method: E909.0								Batch: 13788		
Sample ID: T11040035-001AMSD	Sample Matrix Spike Duplicate			Run: SUB-T40226		05/04/11 08:07				
Lead 210	6.94E-05	pCi/Filter		90	70	130	8.6	15.6		
Sample ID: T11040035-001AMS	Sample Matrix Spike			Run: SUB-T40226		05/04/11 05:56				
Lead 210	7.57E-05	pCi/Filter		98	70	130				
Sample ID: LCS-13788	Laboratory Control Sample			Run: SUB-T40226		05/04/11 01:33				
Lead 210	340	pCi/L		94	70	130				
Sample ID: MB-13788	3	Method Blank		Run: SUB-T40226		05/03/11 23:22				
Lead 210		-2	pCi/L	U						
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		9	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/11/11

Project: Marsland Baseline Samples

Work Order: C11030834

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: R144922										
Sample ID: LCS-29258	Laboratory Control Sample					Run: EGG-ORTEC_110412A		04/14/11 08:57		
Polonium 210		29	pCi/L	96		70	130			
Sample ID: MB-29258	3	Method Blank				Run: EGG-ORTEC_110412A		04/14/11 08:57		
Polonium 210		-0.05	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: C11030766-001HMS	Sample Matrix Spike					Run: EGG-ORTEC_110412A		04/14/11 08:57		
Polonium 210		5.1	pCi/L	89		70	130			
Sample ID: C11030766-001HMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110412A		04/14/11 08:57		
Polonium 210		5.1	pCi/L	88		70	130	1.7	71.5	
Method: E912.0										
Batch: PO210-0358										
Sample ID: C11030834-003FMS	Sample Matrix Spike					Run: EGG-ORTEC_110418A		04/21/11 09:10		
Polonium 210		14	pCi/L	111		70	130			
Sample ID: C11030834-003FMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110418A		04/21/11 09:10		
Polonium 210		12	pCi/L	94		70	130	16	69.8	
Sample ID: MB-PO210-0358	3	Method Blank				Run: EGG-ORTEC_110418A		04/21/11 09:10		
Polonium 210		-0.03	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0358	Laboratory Control Sample					Run: EGG-ORTEC_110418A		04/21/11 09:10		
Polonium 210		6.6	pCi/L	105		70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11030834

Login completed by: Edith McPike
Reviewed by: BL2000\cwagner
Reviewed Date: 4/1/2011

Date Received: 3/29/2011

Received by: ha

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 3.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved in the laboratory for dissolved and suspended radionuclides

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 3.25.11

ANALYST: MO

STANDARD CURVE DATA

	BL	.01	.05	.10			
Abs	.000	.039	.170	.333			
Abs							

SAMPLE #	VOLUME	Df	Abs	
1 East Driller Pond	10ml	1	.004	<1
2 West Driller Pond	10ml	1	.003	<1
3 747	10ml	1	.002	<1
4 West DP Dup	10ml	1	.000	<1
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

May 25, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11030927 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 10 samples for Crow Butte Resources on 3/31/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11030927-001	Monitor 1	03/28/11 00:00	03/31/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11030927-002	Monitor 2	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-003	Monitor 4A	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-004	Monitor 5	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-005	Monitor 6	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-006	Monitor 7	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-007	Monitor 8	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-008	Monitor 9	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-009	Monitor 10	03/28/11 00:00	03/31/11	Aqueous	Same As Above
C11030927-010	Monitor 11	03/28/11 00:00	03/31/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11030927

Report Date: 05/25/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-001
Client Sample ID: Monitor 1

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	415	mg/L		1		A2320 B	03/31/11 18:25 / jba
Carbonate as CO3	12	mg/L		1		A2320 B	03/31/11 18:25 / jba
Bicarbonate as HCO3	483	mg/L		1		A2320 B	03/31/11 18:25 / jba
Calcium	4	mg/L		1		E200.7	04/07/11 19:48 / cp
Chloride	179	mg/L		1		E300.0	04/02/11 06:25 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/04/11 14:29 / lr
Magnesium	1	mg/L		1		E200.7	04/07/11 19:48 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/04/11 14:02 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:02 / dc
Potassium	8	mg/L		1		E200.7	04/07/11 19:48 / cp
Silica	16.1	mg/L		0.2		E200.7	04/07/11 19:48 / cp
Sodium	338	mg/L		1		E200.7	04/07/11 19:48 / cp
Sulfate	59	mg/L	D	4		E300.0	04/02/11 06:25 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1400	umhos/cm		1		A2510 B	03/31/11 14:59 / lr
pH	8.29	s.u.		0.01		A4500-H B	03/31/11 14:59 / lr
Solids, Total Dissolved TDS @ 180 C	817	mg/L		10		A2540 C	04/01/11 13:50 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/07/11 19:48 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/31/11 17:08 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 17:08 / sml
Boron	1.4	mg/L		0.1		E200.7	04/07/11 19:48 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 17:08 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 17:08 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 17:08 / sml
Iron	0.09	mg/L		0.03		E200.7	04/07/11 19:48 / cp
Lead	0.001	mg/L		0.001		E200.8	03/31/11 17:08 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 17:08 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 17:08 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 17:08 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 17:08 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/31/11 17:08 / sml
Uranium	0.0087	mg/L		0.0003		E200.8	03/31/11 17:08 / sml
Uranium, Activity	5.9E-09	uCi/mL		2.0E-10		E200.8	03/31/11 17:08 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 17:08 / sml
Zinc	0.09	mg/L		0.01		E200.8	03/31/11 17:08 / sml
METALS - SUSPENDED							
Uranium	0.0843	mg/L		0.0003		E200.8	04/05/11 23:03 / sml
Uranium, Activity	5.7E-08	uCi/mL		2.0E-10		E200.8	04/05/11 23:03 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-001
Client Sample ID: Monitor 1

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	67	pCi/L		0.7		E909.0	05/01/11 13:14 / eli-cs
Lead 210 precision (±)	1.1	pCi/L				E909.0	05/01/11 13:14 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/01/11 13:14 / eli-cs
Polonium 210	22	pCi/L		0.7		E912.0	04/21/11 09:09 / ep
Polonium 210 precision (±)	5.5	pCi/L				E912.0	04/21/11 09:09 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/21/11 09:09 / ep
Radium 226	18	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.8	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	1.4	pCi/L		0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.3	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	80	pCi/L		0.8		E909.0	05/04/11 10:19 / eli-cs
Lead 210 precision (±)	1.2	pCi/L				E909.0	05/04/11 10:19 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 10:19 / eli-cs
Polonium 210	22	pCi/L		0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	4.6	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	45	pCi/L		0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	1.2	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	25	pCi/L		0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	3.7	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.06	%				Calculation	04/12/11 12:44 / kbh
Anions	14.6	meq/L				Calculation	04/12/11 12:44 / kbh
Cations	15.2	meq/L				Calculation	04/12/11 12:44 / kbh
Solids, Total Dissolved Calculated	860	mg/L				Calculation	04/12/11 12:44 / kbh
TDS Balance (0.80 - 1.20)	0.950					Calculation	04/12/11 12:44 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-002
Client Sample ID: Monitor 2

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	406	mg/L		1		A2320 B	03/31/11 18:34 / jba
Carbonate as CO ₃	11	mg/L		1		A2320 B	03/31/11 18:34 / jba
Bicarbonate as HCO ₃	473	mg/L		1		A2320 B	03/31/11 18:34 / jba
Calcium	4	mg/L		1		E200.7	04/07/11 19:52 / cp
Chloride	171	mg/L		1		E300.0	04/02/11 06:41 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/04/11 14:47 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 19:52 / cp
Nitrogen, Ammonia as N	0.23	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:04 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:05 / dc
Potassium	9	mg/L		1		E200.7	04/07/11 19:52 / cp
Silica	16.7	mg/L		0.2		E200.7	04/07/11 19:52 / cp
Sodium	332	mg/L		1		E200.7	04/07/11 19:52 / cp
Sulfate	57	mg/L	D	4		E300.0	04/02/11 06:41 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1360	umhos/cm		1		A2510 B	03/31/11 15:01 / lr
pH	8.27	s.u.		0.01		A4500-H B	03/31/11 15:01 / lr
Solids, Total Dissolved TDS @ 180 C	778	mg/L		10		A2540 C	04/01/11 13:51 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/07/11 19:52 / cp
Arsenic	0.003	mg/L		0.001		E200.8	03/31/11 17:14 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 17:14 / sml
Boron	1.4	mg/L		0.1		E200.7	04/07/11 19:52 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 17:14 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 17:14 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 17:14 / sml
Iron	0.03	mg/L		0.03		E200.7	04/07/11 19:52 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 17:14 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 17:14 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 17:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 17:14 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 17:14 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/31/11 17:14 / sml
Uranium	0.0028	mg/L		0.0003		E200.8	03/31/11 17:14 / sml
Uranium, Activity	1.9E-09	uCi/mL		2.0E-10		E200.8	03/31/11 17:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 17:14 / sml
Zinc	0.01	mg/L		0.01		E200.8	03/31/11 17:14 / sml
METALS - SUSPENDED							
Uranium	0.0012	mg/L		0.0003		E200.8	04/05/11 23:07 / sml
Uranium, Activity	8.0E-10	uCi/mL		2.0E-10		E200.8	04/05/11 23:07 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-002
Client Sample ID: Monitor 2

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.1	pCi/L		0.7		E909.0	05/01/11 15:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/01/11 15:25 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/01/11 15:25 / eli-cs
Polonium 210	3.7	pCi/L		0.9		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	1.8	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	0.8	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.2	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/04/11 12:30 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/04/11 12:30 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 12:30 / eli-cs
Polonium 210	0.4	pCi/L		0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	1.0	pCi/L		0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	0.2	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	0.2	pCi/L		0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.90	%				Calculation	04/12/11 12:45 / kbh
Anions	14.1	meq/L				Calculation	04/12/11 12:45 / kbh
Cations	15.0	meq/L				Calculation	04/12/11 12:45 / kbh
Solids, Total Dissolved Calculated	839	mg/L				Calculation	04/12/11 12:45 / kbh
TDS Balance (0.80 - 1.20)	0.930					Calculation	04/12/11 12:45 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-003
Client Sample ID: Monitor 4A

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	356	mg/L		1		A2320 B	03/31/11 18:43 / jba
Carbonate as CO ₃	31	mg/L		1		A2320 B	03/31/11 18:43 / jba
Bicarbonate as HCO ₃	371	mg/L		1		A2320 B	03/31/11 18:43 / jba
Calcium	3	mg/L		1		E200.7	04/07/11 20:08 / cp
Chloride	249	mg/L	D	2		E300.0	04/05/11 02:49 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 14:54 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 20:08 / cp
Nitrogen, Ammonia as N	0.26	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:06 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:07 / dc
Potassium	16	mg/L		1		E200.7	04/07/11 20:08 / cp
Silica	18.3	mg/L		0.2		E200.7	04/07/11 20:08 / cp
Sodium	394	mg/L		1		E200.7	04/07/11 20:08 / cp
Sulfate	112	mg/L	D	4		E300.0	04/02/11 06:56 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1660	umhos/cm		1		A2510 B	03/31/11 15:04 / lr
pH	8.97	s.u.		0.01		A4500-H B	03/31/11 15:04 / lr
Solids, Total Dissolved TDS @ 180 C	955	mg/L		10		A2540 C	04/01/11 13:51 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/07/11 20:08 / cp
Arsenic	0.005	mg/L		0.001		E200.8	03/31/11 17:21 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 17:21 / sml
Boron	1.3	mg/L		0.1		E200.7	04/07/11 20:08 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 17:21 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 17:21 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 17:21 / sml
Iron	ND	mg/L		0.03		E200.7	04/07/11 20:08 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 17:21 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 17:21 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 17:21 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 17:21 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 17:21 / sml
Selenium	0.002	mg/L		0.001		E200.8	03/31/11 17:21 / sml
Uranium	0.0826	mg/L		0.0003		E200.8	03/31/11 17:21 / sml
Uranium, Activity	5.6E-08	uCi/mL		2.0E-10		E200.8	03/31/11 17:21 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 17:21 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 17:21 / sml
METALS - SUSPENDED							
Uranium	0.0016	mg/L		0.0003		E200.8	04/05/11 23:12 / sml
Uranium, Activity	1.1E-09	uCi/mL		2.0E-10		E200.8	04/05/11 23:12 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-003
Client Sample ID: Monitor 4A

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	591	pCi/L		0.8		E909.0	05/01/11 17:37 / eli-cs
Lead 210 precision (±)	3.1	pCi/L				E909.0	05/01/11 17:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/01/11 17:37 / eli-cs
Polonium 210	131	pCi/L		0.7		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	27	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	238	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	2.9	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	36	pCi/L		0.8		E909.0	05/04/11 14:42 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	05/04/11 14:42 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 14:42 / eli-cs
Polonium 210	8.2	pCi/L		0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	1.8	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	0.7	pCi/L		0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	0.2	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	0.6	pCi/L		0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.70	%				Calculation	04/12/11 12:45 / kbh
Anions	16.5	meq/L				Calculation	04/12/11 12:45 / kbh
Cations	17.8	meq/L				Calculation	04/12/11 12:45 / kbh
Solids, Total Dissolved Calculated	1010	mg/L				Calculation	04/12/11 12:45 / kbh
TDS Balance (0.80 - 1.20)	0.950					Calculation	04/12/11 12:45 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-004
Client Sample ID: Monitor 5

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	311	mg/L		1		A2320 B	03/31/11 18:52 / jba
Carbonate as CO ₃	125	mg/L		1		A2320 B	03/31/11 18:52 / jba
Bicarbonate as HCO ₃	125	mg/L		1		A2320 B	03/31/11 18:52 / jba
Calcium	4	mg/L		1		E200.7	04/07/11 20:12 / cp
Chloride	335	mg/L	D	2		E300.0	04/05/11 03:35 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 14:58 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 20:12 / cp
Nitrogen, Ammonia as N	0.48	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:08 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:17 / dc
Potassium	39	mg/L		1		E200.7	04/07/11 20:12 / cp
Silica	30.7	mg/L		0.2		E200.7	04/07/11 20:12 / cp
Sodium	514	mg/L		1		E200.7	04/07/11 20:12 / cp
Sulfate	308	mg/L	D	4		E300.0	04/02/11 07:12 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2290	umhos/cm		1		A2510 B	03/31/11 15:06 / lr
pH	10.0	s.u.		0.01		A4500-H B	03/31/11 15:06 / lr
Solids, Total Dissolved TDS @ 180 C	1290	mg/L		10		A2540 C	04/01/11 13:51 / lr
METALS - DISSOLVED							
Aluminum	0.4	mg/L		0.1		E200.7	04/07/11 20:12 / cp
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 17:28 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 17:28 / sml
Boron	1.1	mg/L		0.1		E200.7	04/07/11 20:12 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 17:28 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 17:28 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 17:28 / sml
Iron	ND	mg/L		0.03		E200.7	04/07/11 20:12 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 17:28 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 17:28 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 17:28 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 17:28 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 17:28 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/31/11 17:28 / sml
Uranium	0.0004	mg/L		0.0003		E200.8	03/31/11 17:28 / sml
Uranium, Activity	3.0E-10	uCi/mL		2.0E-10		E200.8	03/31/11 17:28 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 17:28 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 17:28 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:32 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:32 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-004
Client Sample ID: Monitor 5

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1	pCi/L		0.7		E909.0	05/01/11 19:48 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/01/11 19:48 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/01/11 19:48 / eli-cs
Polonium 210	1.2	pCi/L		0.7		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.8	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	2.3	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.3	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/04/11 16:53 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/04/11 16:53 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 16:53 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.34	%				Calculation	04/12/11 12:45 / kbh
Anions	22.1	meq/L				Calculation	04/12/11 12:45 / kbh
Cations	23.7	meq/L				Calculation	04/12/11 12:45 / kbh
Solids, Total Dissolved Calculated	1430	mg/L				Calculation	04/12/11 12:45 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	04/12/11 12:45 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-005
Client Sample ID: Monitor 6

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	368	mg/L		1		A2320 B	03/31/11 19:19 / jba
Carbonate as CO3	68	mg/L		1		A2320 B	03/31/11 19:19 / jba
Bicarbonate as HCO3	311	mg/L		1		A2320 B	03/31/11 19:19 / jba
Calcium	7	mg/L		1		E200.7	04/07/11 20:16 / cp
Chloride	428	mg/L	D	4		E300.0	04/05/11 03:50 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 15:00 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 20:16 / cp
Nitrogen, Ammonia as N	0.40	mg/L		0.05		A4500-NH3 G	04/04/11 14:10 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:20 / dc
Potassium	25	mg/L		1		E200.7	04/07/11 20:16 / cp
Silica	19.6	mg/L		0.2		E200.7	04/07/11 20:16 / cp
Sodium	478	mg/L		1		E200.7	04/07/11 20:16 / cp
Sulfate	59	mg/L	D	4		E300.0	04/02/11 07:27 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2100	umhos/cm		1		A2510 B	03/31/11 15:08 / lr
pH	9.31	s.u.		0.01		A4500-H B	03/31/11 15:08 / lr
Solids, Total Dissolved TDS @ 180 C	1160	mg/L		10		A2540 C	04/01/11 13:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/07/11 20:16 / cp
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 17:35 / sml
Barium	0.1	mg/L		0.1		E200.8	03/31/11 17:35 / sml
Boron	1.3	mg/L		0.1		E200.7	04/07/11 20:16 / cp
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 17:35 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 17:35 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 17:35 / sml
Iron	ND	mg/L		0.03		E200.7	04/07/11 20:16 / cp
Lead	ND	mg/L		0.001		E200.8	03/31/11 17:35 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 17:35 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 17:35 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 17:35 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 17:35 / sml
Selenium	0.003	mg/L		0.001		E200.8	03/31/11 17:35 / sml
Uranium	0.0028	mg/L		0.0003		E200.8	03/31/11 17:35 / sml
Uranium, Activity	1.9E-09	uCi/mL		2.0E-10		E200.8	03/31/11 17:35 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 17:35 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 17:35 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:36 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:36 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-005
Client Sample ID: Monitor 6

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	2.4	pCi/L		1.1		E909.0	05/01/11 22:00 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	05/01/11 22:00 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	05/01/11 22:00 / eli-cs
Polonium 210	1	pCi/L		0.7		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	1.4	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.2	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/04/11 19:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/04/11 19:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 19:05 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.72	%				Calculation	04/12/11 12:46 / kbh
Anions	20.7	meq/L				Calculation	04/12/11 12:46 / kbh
Cations	21.9	meq/L				Calculation	04/12/11 12:46 / kbh
Solids, Total Dissolved Calculated	1240	mg/L				Calculation	04/12/11 12:46 / kbh
TDS Balance (0.80 - 1.20)	0.940					Calculation	04/12/11 12:46 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-006
Client Sample ID: Monitor 7

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	253	mg/L		1		A2320 B	03/31/11 19:53 / jba
Carbonate as CO ₃	32	mg/L		1		A2320 B	03/31/11 19:53 / jba
Bicarbonate as HCO ₃	244	mg/L		1		A2320 B	03/31/11 19:53 / jba
Calcium	7	mg/L		1		E200.7	04/07/11 20:20 / cp
Chloride	371	mg/L	D	4		E300.0	04/05/11 04:06 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 15:03 / lr
Magnesium	1	mg/L		1		E200.7	04/07/11 20:20 / cp
Nitrogen, Ammonia as N	0.25	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:18 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:22 / dc
Potassium	18	mg/L		1		E200.7	04/07/11 20:20 / cp
Silica	18.0	mg/L		0.2		E200.7	04/07/11 20:20 / cp
Sodium	518	mg/L		1		E200.7	04/07/11 20:20 / cp
Sulfate	295	mg/L	D	4		E300.0	04/02/11 07:43 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2220	umhos/cm		1		A2510 B	03/31/11 15:09 / lr
pH	9.25	s.u.		0.01		A4500-H B	03/31/11 15:09 / lr
Solids, Total Dissolved TDS @ 180 C	1330	mg/L		10		A2540 C	04/01/11 13:53 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 18:02 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 18:02 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 18:02 / sml
Boron	1.1	mg/L		0.1		E200.8	04/04/11 18:28 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 18:02 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 18:02 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 18:02 / sml
Iron	ND	mg/L		0.03		E200.8	04/04/11 18:28 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 18:02 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 18:02 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 18:02 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 18:02 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 18:02 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/04/11 18:28 / sml
Uranium	0.0006	mg/L		0.0003		E200.8	03/31/11 18:02 / sml
Uranium, Activity	4.1E-10	uCi/mL		2.0E-10		E200.8	03/31/11 18:02 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 18:02 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 18:02 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:41 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:41 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-006
Client Sample ID: Monitor 7

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/02/11 00:11 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/02/11 00:11 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/02/11 00:11 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	1.1	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.2	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/04/11 21:16 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/04/11 21:16 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 21:16 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 09:19 / dmf
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/12/11 09:19 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 09:19 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.78	%				Calculation	04/12/11 12:46 / kbh
Anions	21.7	meq/L				Calculation	04/12/11 12:46 / kbh
Cations	23.4	meq/L				Calculation	04/12/11 12:46 / kbh
Solids, Total Dissolved Calculated	1390	mg/L				Calculation	04/12/11 12:46 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	04/12/11 12:46 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-007
Client Sample ID: Monitor 8

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	288	mg/L		1		A2320 B	03/31/11 20:01 / jba
Carbonate as CO ₃	24	mg/L		1		A2320 B	03/31/11 20:01 / jba
Bicarbonate as HCO ₃	302	mg/L		1		A2320 B	03/31/11 20:01 / jba
Calcium	9	mg/L		1		E200.7	04/07/11 20:33 / cp
Chloride	217	mg/L		1		E300.0	04/02/11 07:58 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	04/04/11 15:07 / lr
Magnesium	2	mg/L		1		E200.7	04/07/11 20:33 / cp
Nitrogen, Ammonia as N	0.32	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:20 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:25 / dc
Potassium	19	mg/L		1		E200.7	04/07/11 20:33 / cp
Silica	19.7	mg/L		0.2		E200.7	04/07/11 20:33 / cp
Sodium	472	mg/L		1		E200.7	04/07/11 20:33 / cp
Sulfate	394	mg/L	D	4		E300.0	04/02/11 07:58 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2020	umhos/cm		1		A2510 B	03/31/11 15:11 / lr
pH	8.98	s.u.		0.01		A4500-H B	03/31/11 15:11 / lr
Solids, Total Dissolved TDS @ 180 C	1260	mg/L		10		A2540 C	04/01/11 13:54 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 18:09 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 18:09 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 18:09 / sml
Boron	1.1	mg/L		0.1		E200.8	04/04/11 18:35 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 18:09 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 18:09 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 18:09 / sml
Iron	ND	mg/L		0.03		E200.8	04/04/11 18:35 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 18:09 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 18:09 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 18:09 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 18:09 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 18:09 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/04/11 18:35 / sml
Uranium	0.0005	mg/L		0.0003		E200.8	03/31/11 18:09 / sml
Uranium, Activity	3.4E-10	uCi/mL		2.0E-10		E200.8	03/31/11 18:09 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 18:09 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 18:09 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:45 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:45 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-007
Client Sample ID: Monitor 8

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/02/11 02:23 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/02/11 02:23 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/02/11 02:23 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	0.4	pCi/L		0.1		E903.0	04/11/11 14:29 / plj
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 14:29 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/04/11 23:28 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/04/11 23:28 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/04/11 23:28 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 14:12 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/12/11 14:12 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 14:12 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.53	%				Calculation	04/12/11 12:47 / kbh
Anions	20.1	meq/L				Calculation	04/12/11 12:47 / kbh
Cations	21.6	meq/L				Calculation	04/12/11 12:47 / kbh
Solids, Total Dissolved Calculated	1310	mg/L				Calculation	04/12/11 12:47 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	04/12/11 12:47 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-008
Client Sample ID: Monitor 9

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	319	mg/L		1		A2320 B	03/31/11 20:10 / jba
Carbonate as CO ₃	40	mg/L		1		A2320 B	03/31/11 20:10 / jba
Bicarbonate as HCO ₃	308	mg/L		1		A2320 B	03/31/11 20:10 / jba
Calcium	3	mg/L		1		E200.7	04/07/11 20:41 / cp
Chloride	318	mg/L	D	2		E300.0	04/05/11 04:21 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 15:10 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 20:41 / cp
Nitrogen, Ammonia as N	0.27	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:22 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:27 / dc
Potassium	19	mg/L		1		E200.7	04/07/11 20:41 / cp
Silica	16.5	mg/L		0.2		E200.7	04/07/11 20:41 / cp
Sodium	399	mg/L		1		E200.7	04/07/11 20:41 / cp
Sulfate	84	mg/L	D	8		E300.0	04/05/11 04:21 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1740	umhos/cm		1		A2510 B	03/31/11 15:12 / lr
pH	9.19	s.u.		0.01		A4500-H B	03/31/11 15:12 / lr
Solids, Total Dissolved TDS @ 180 C	993	mg/L		10		A2540 C	04/01/11 13:54 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 18:15 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/31/11 18:15 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 18:15 / sml
Boron	1.0	mg/L		0.1		E200.8	04/04/11 18:42 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 18:15 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 18:15 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 18:15 / sml
Iron	ND	mg/L		0.03		E200.8	04/04/11 18:42 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 18:15 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 18:15 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 18:15 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 18:15 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 18:15 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/04/11 18:42 / sml
Uranium	0.0127	mg/L		0.0003		E200.8	03/31/11 18:15 / sml
Uranium, Activity	8.6E-09	uCi/mL		2.0E-10		E200.8	03/31/11 18:15 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 18:15 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 18:15 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:49 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:49 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-008
Client Sample ID: Monitor 9

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/02/11 04:34 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/02/11 04:34 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/02/11 04:34 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	04/11/11 16:03 / plj
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/11/11 16:03 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 16:03 / plj
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/05/11 01:39 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/05/11 01:39 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/05/11 01:39 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 14:12 / dmf
Radium 226 precision (±)	0.05	pCi/L				E903.0	04/12/11 14:12 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 14:12 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.53	%				Calculation	04/12/11 12:47 / kbh
Anions	17.1	meq/L				Calculation	04/12/11 12:47 / kbh
Cations	18.0	meq/L				Calculation	04/12/11 12:47 / kbh
Solids, Total Dissolved Calculated	1040	mg/L				Calculation	04/12/11 12:47 / kbh
TDS Balance (0.80 - 1.20)	0.950					Calculation	04/12/11 12:47 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-009
Client Sample ID: Monitor 10

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	313	mg/L		1		A2320 B	03/31/11 20:19 / jba
Carbonate as CO3	18	mg/L		1		A2320 B	03/31/11 20:19 / jba
Bicarbonate as HCO3	346	mg/L		1		A2320 B	03/31/11 20:19 / jba
Calcium	8	mg/L		1		E200.7	04/07/11 20:45 / cp
Chloride	186	mg/L	D	2		E300.0	04/05/11 04:37 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	04/04/11 15:12 / lr
Magnesium	2	mg/L		1		E200.7	04/07/11 20:45 / cp
Nitrogen, Ammonia as N	0.35	mg/L		0.05		A4500-NH3 G	04/04/11 14:24 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:35 / dc
Potassium	13	mg/L		1		E200.7	04/07/11 20:45 / cp
Silica	17.8	mg/L		0.2		E200.7	04/07/11 20:45 / cp
Sodium	438	mg/L		1		E200.7	04/07/11 20:45 / cp
Sulfate	344	mg/L	D	8		E300.0	04/05/11 04:37 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1850	umhos/cm		1		A2510 B	03/31/11 15:14 / lr
pH	8.65	s.u.		0.01		A4500-H B	03/31/11 15:14 / lr
Solids, Total Dissolved TDS @ 180 C	1170	mg/L		10		A2540 C	04/01/11 13:54 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	03/31/11 18:22 / sml
Arsenic	0.002	mg/L		0.001		E200.8	03/31/11 18:22 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 18:22 / sml
Boron	1.0	mg/L		0.1		E200.8	04/04/11 18:49 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 18:22 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 18:22 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 18:22 / sml
Iron	ND	mg/L		0.03		E200.8	04/04/11 18:49 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 18:22 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 18:22 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 18:22 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 18:22 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 18:22 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/04/11 18:49 / sml
Uranium	0.0009	mg/L		0.0003		E200.8	03/31/11 18:22 / sml
Uranium, Activity	6.0E-10	uCi/mL		2.0E-10		E200.8	03/31/11 18:22 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 18:22 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 18:22 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:53 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:53 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-009
Client Sample ID: Monitor 10

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/02/11 06:45 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/02/11 06:45 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/02/11 06:45 / eli-cs
Polonium 210	1.2	pCi/L		0.7		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.8	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/11/11 16:03 / plj
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/11/11 16:03 / plj
Radium 226 MDC	0.1	pCi/L				E903.0	04/11/11 16:03 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/05/11 03:51 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/05/11 03:51 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/05/11 03:51 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 14:12 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/12/11 14:12 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 14:12 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.18	%				Calculation	04/12/11 12:47 / kbh
Anions	18.7	meq/L				Calculation	04/12/11 12:47 / kbh
Cations	19.9	meq/L				Calculation	04/12/11 12:47 / kbh
Solids, Total Dissolved Calculated	1200	mg/L				Calculation	04/12/11 12:47 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	04/12/11 12:47 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-010
Client Sample ID: Monitor 11

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	347	mg/L		1		A2320 B	03/31/11 20:28 / jba
Carbonate as CO ₃	74	mg/L		1		A2320 B	03/31/11 20:28 / jba
Bicarbonate as HCO ₃	272	mg/L		1		A2320 B	03/31/11 20:28 / jba
Calcium	4	mg/L		1		E200.7	04/07/11 21:45 / cp
Chloride	452	mg/L	D	2		E300.0	04/05/11 04:52 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/04/11 15:23 / lr
Magnesium	ND	mg/L		1		E200.7	04/07/11 21:45 / cp
Nitrogen, Ammonia as N	0.27	mg/L		0.05		A4500-NH ₃ G	04/04/11 14:26 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/01/11 14:37 / dc
Potassium	29	mg/L		1		E200.7	04/07/11 21:45 / cp
Silica	15.0	mg/L		0.2		E200.7	04/07/11 21:45 / cp
Sodium	522	mg/L		1		E200.7	04/07/11 21:45 / cp
Sulfate	132	mg/L	D	8		E300.0	04/05/11 04:52 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2300	umhos/cm		1		A2510 B	03/31/11 15:16 / lr
pH	9.47	s.u.		0.01		A4500-H B	03/31/11 15:16 / lr
Solids, Total Dissolved TDS @ 180 C	1330	mg/L		10		A2540 C	04/01/11 13:54 / lr
METALS - DISSOLVED							
Aluminum	0.1	mg/L		0.1		E200.8	03/31/11 18:29 / sml
Arsenic	0.004	mg/L		0.001		E200.8	03/31/11 18:29 / sml
Barium	ND	mg/L		0.1		E200.8	03/31/11 18:29 / sml
Boron	1.0	mg/L		0.1		E200.8	04/04/11 18:56 / sml
Cadmium	ND	mg/L		0.005		E200.8	03/31/11 18:29 / sml
Chromium	ND	mg/L		0.05		E200.8	03/31/11 18:29 / sml
Copper	ND	mg/L		0.01		E200.8	03/31/11 18:29 / sml
Iron	ND	mg/L		0.03		E200.8	04/04/11 18:56 / sml
Lead	ND	mg/L		0.001		E200.8	03/31/11 18:29 / sml
Manganese	ND	mg/L		0.01		E200.8	03/31/11 18:29 / sml
Mercury	ND	mg/L		0.001		E200.8	03/31/11 18:29 / sml
Molybdenum	ND	mg/L		0.1		E200.8	03/31/11 18:29 / sml
Nickel	ND	mg/L		0.05		E200.8	03/31/11 18:29 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/04/11 18:56 / sml
Uranium	0.0013	mg/L		0.0003		E200.8	03/31/11 18:29 / sml
Uranium, Activity	8.8E-10	uCi/mL		2.0E-10		E200.8	03/31/11 18:29 / sml
Vanadium	ND	mg/L		0.1		E200.8	03/31/11 18:29 / sml
Zinc	ND	mg/L		0.01		E200.8	03/31/11 18:29 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/05/11 23:57 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/05/11 23:57 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11030927-010
Client Sample ID: Monitor 11

Report Date: 05/25/11
Collection Date: 03/28/11
Date Received: 03/31/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/02/11 08:57 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/02/11 08:57 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/02/11 08:57 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/20/11 08:58 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	04/20/11 08:58 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/20/11 08:58 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/11/11 16:03 / plj
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/11/11 16:03 / plj
Radium 226 MDC	0.2	pCi/L				E903.0	04/11/11 16:03 / plj
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/07/11 16:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/07/11 16:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/07/11 16:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/05/11 06:02 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/05/11 06:02 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/05/11 06:02 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	04/27/11 08:38 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	04/27/11 08:38 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	04/27/11 08:38 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/12/11 14:12 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/12/11 14:12 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/12/11 14:12 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/12/11 08:55 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/12/11 08:55 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/12/11 08:55 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.78	%				Calculation	04/12/11 12:47 / kbh
Anions	22.5	meq/L				Calculation	04/12/11 12:47 / kbh
Cations	23.8	meq/L				Calculation	04/12/11 12:47 / kbh
Solids, Total Dissolved Calculated	1370	mg/L				Calculation	04/12/11 12:47 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	04/12/11 12:47 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144369
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110331A 03/31/11 15:40
Alkalinity, Total as CaCO3		3.00	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		3.66	mg/L	1.0						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110331A 03/31/11 15:55
Alkalinity, Total as CaCO3		209	mg/L	5.0	103	90	110			
Sample ID: C11030927-010ADUP		Sample Duplicate								Run: MANTECH_110331A 03/31/11 20:37
Alkalinity, Total as CaCO3		349	mg/L	5.0				0.6	10	
Sample ID: C11030927-010AMS		Sample Matrix Spike								Run: MANTECH_110331A 03/31/11 20:46
Alkalinity, Total as CaCO3		488	mg/L	5.0	113	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110331B		
Sample ID: ICV2_110331_2	Initial Calibration Verification Standard									
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			03/31/11 14:32
Method: A2510 B								Batch: 110331_2_PH-W_555A-2		
Sample ID: MBLK1_110331_2	Method Blank									
Conductivity @ 25 C		ND	umhos/cm	1.0						Run: ORION555A-2_110331B 03/31/11 14:29
Sample ID: C11030927-002ADUP	Sample Duplicate									
Conductivity @ 25 C		1360	umhos/cm	1.0				0.1	10	Run: ORION555A-2_110331B 03/31/11 15:02

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/25/11
Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110401_1_SLDS-TDS-W		
Sample ID: MBLK1_110401		Method Blank					Run: BAL-1_110401B			04/01/11 13:45
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_110401		Laboratory Control Sample					Run: BAL-1_110401B			04/01/11 13:45
Solids, Total Dissolved TDS @ 180 C		980	mg/L	10	98	90	110			
Sample ID: C11030927-010BDUP		Sample Duplicate					Run: BAL-1_110401B			04/01/11 13:54
Solids, Total Dissolved TDS @ 180 C		1320	mg/L	10				0.6	10	
Sample ID: C11030946-001AMS		Sample Matrix Spike					Run: BAL-1_110401B			04/01/11 13:57
Solids, Total Dissolved TDS @ 180 C		2370	mg/L	10	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/25/11
Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144428
Sample ID: MBLK		Method Blank								Run: MANTECH_110404A
Fluoride		ND	mg/L	0.10						04/04/11 10:44
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110404A
Fluoride		1.04	mg/L	0.10	102	90	110			04/04/11 10:46
Sample ID: C11030927-009AMS		Sample Matrix Spike								Run: MANTECH_110404A
Fluoride		1.68	mg/L	0.10	99	80	120			04/04/11 15:16
Sample ID: C11030927-009AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110404A
Fluoride		1.71	mg/L	0.10	102	80	120	1.8	10	04/04/11 15:19

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110331B		
Sample ID: ICV1_110331_2		Initial Calibration Verification Standard						03/31/11 14:30		
pH		6.92	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110331_2_PH-W_555A-2		
Sample ID: C11030927-002ADUP		Sample Duplicate				Run: ORION555A-2_110331B		03/31/11 15:02		
pH		8.26	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/25/11
Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-NH3 G										Batch: R144415	
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110404A	04/04/11 13:58
Nitrogen, Ammonia as N		ND	mg/L	0.050							
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110404A	04/04/11 14:00
Nitrogen, Ammonia as N		2.02	mg/L	0.050	101	90	110				
Sample ID: C11030927-005GMS		Sample Matrix Spike								Run: TECHNICON_110404A	04/04/11 14:12
Nitrogen, Ammonia as N		2.17	mg/L	0.050	91	80	120				
Sample ID: C11030927-005GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110404A	04/04/11 14:14
Nitrogen, Ammonia as N		2.19	mg/L	0.050	92	80	120	0.9	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144604										
Sample ID: MB-110407A	8	Method Blank					Run: ICP2-C_110407A			04/07/11 17:50
Aluminum		ND	mg/L	0.10						
Boron		ND	mg/L	0.10						
Calcium		ND	mg/L	1.0						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Silicon		ND	mg/L	0.10						
Sodium		ND	mg/L	1.0						
Sample ID: LFB-110407A	8	Laboratory Fortified Blank					Run: ICP2-C_110407A			04/07/11 17:55
Aluminum		0.944	mg/L	0.10	94	85	115			
Boron		0.941	mg/L	0.10	92	85	115			
Calcium		47.7	mg/L	0.50	95	85	115			
Iron		0.957	mg/L	0.030	95	85	115			
Magnesium		47.8	mg/L	0.50	96	85	115			
Potassium		43.3	mg/L	0.50	87	85	115			
Silicon		0.411	mg/L	0.10	87	85	115			
Sodium		48.5	mg/L	0.50	97	85	115			
Sample ID: C11030827-003DMS2	8	Sample Matrix Spike					Run: ICP2-C_110407A			04/07/11 19:24
Aluminum		1.98	mg/L	0.10	95	70	130			
Boron		2.05	mg/L	0.10	96	70	130			
Calcium		107	mg/L	1.0	94	70	130			
Iron		1.99	mg/L	0.030	96	70	130			
Magnesium		97.1	mg/L	1.0	95	70	130			
Potassium		94.5	mg/L	1.0	90	70	130			
Silicon		6.53	mg/L	0.10		70	130			A
Sodium		228	mg/L	1.0	101	70	130			
Sample ID: C11030827-003DMSD	8	Sample Matrix Spike Duplicate					Run: ICP2-C_110407A			04/07/11 19:28
Aluminum		2.00	mg/L	0.10	96	70	130	0.9	20	
Boron		2.10	mg/L	0.10	98	70	130	2.6	20	
Calcium		109	mg/L	1.0	95	70	130	1.7	20	
Iron		2.02	mg/L	0.030	98	70	130	1.1	20	
Magnesium		98.4	mg/L	1.0	96	70	130	1.4	20	
Potassium		92.9	mg/L	1.0	88	70	130	1.7	20	
Silicon		6.60	mg/L	0.10		70	130	1.1	20	A
Sodium		226	mg/L	1.0	98	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144310										
Sample ID: LRB	15	Method Blank								
Run: ICPMS2-C_110331A 03/31/11 12:20										
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Lead		ND	mg/L	0.0010						
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Selenium		ND	mg/L	0.0010						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB	15	Laboratory Fortified Blank								
Run: ICPMS2-C_110331A 03/31/11 12:27										
Aluminum		0.0477	mg/L	0.0010	95	85	115			
Arsenic		0.0533	mg/L	0.0010	107	85	115			
Barium		0.0522	mg/L	0.0010	104	85	115			
Cadmium		0.0527	mg/L	0.0010	105	85	115			
Chromium		0.0507	mg/L	0.0010	101	85	115			
Copper		0.0516	mg/L	0.0010	103	85	115			
Lead		0.0514	mg/L	0.0010	103	85	115			
Manganese		0.0507	mg/L	0.0010	101	85	115			
Mercury		0.00525	mg/L	0.0010	105	85	115			
Molybdenum		0.0510	mg/L	0.0010	102	85	115			
Nickel		0.0515	mg/L	0.0010	103	85	115			
Selenium		0.0555	mg/L	0.0010	111	85	115			
Uranium		0.0526	mg/L	0.00030	105	85	115			
Vanadium		0.0495	mg/L	0.0010	99	85	115			
Zinc		0.0535	mg/L	0.0010	107	85	115			
Sample ID: C11030927-010CMS4	15	Sample Matrix Spike								
Run: ICPMS2-C_110331A 03/31/11 18:36										
Aluminum		0.156	mg/L	0.10	94	70	130			
Arsenic		0.0612	mg/L	0.0010	115	70	130			
Barium		0.0877	mg/L	0.0010	114	70	130			
Cadmium		0.0513	mg/L	0.010	103	70	130			
Chromium		0.0565	mg/L	0.050	93	70	130			
Copper		0.0484	mg/L	0.010	97	70	130			
Lead		0.0552	mg/L	0.050	110	70	130			
Manganese		0.0518	mg/L	0.010	102	70	130			
Mercury		0.00320	mg/L	0.0010	64	70	130			S
Molybdenum		0.0647	mg/L	0.0010	105	70	130			
Nickel		0.0488	mg/L	0.0010	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144310										
Sample ID: C11030927-010CMS4	15	Sample Matrix Spike					Run: ICPMS2-C_110331A			03/31/11 18:36
Selenium		0.0614	mg/L	0.0010	117	70	130			
Uranium		0.0617	mg/L	0.00030	121	70	130			
Vanadium		0.0557	mg/L	0.0010	101	70	130			
Zinc		0.0542	mg/L	0.010	103	70	130			
Sample ID: C11030927-010CMSD	15	Sample Matrix Spike Duplicate					Run: ICPMS2-C_110331A			03/31/11 18:42
Aluminum		0.154	mg/L	0.10	92	70	130	0.8	20	
Arsenic		0.0618	mg/L	0.0010	116	70	130	1.0	20	
Barium		0.0885	mg/L	0.0010	116	70	130	0.9	20	
Cadmium		0.0514	mg/L	0.010	103	70	130	0.3	20	
Chromium		0.0572	mg/L	0.050	94	70	130	1.2	20	
Copper		0.0482	mg/L	0.010	96	70	130	0.5	20	
Lead		0.0547	mg/L	0.050	109	70	130	0.9	20	
Manganese		0.0513	mg/L	0.010	101	70	130	1.1	20	
Mercury		0.00363	mg/L	0.0010	73	70	130	13	20	
Molybdenum		0.0655	mg/L	0.0010	106	70	130	1.3	20	
Nickel		0.0481	mg/L	0.0010	96	70	130	1.4	20	
Selenium		0.0615	mg/L	0.0010	117	70	130	0.2	20	
Uranium		0.0627	mg/L	0.00030	123	70	130	1.6	20	
Vanadium		0.0554	mg/L	0.0010	101	70	130	0.5	20	
Zinc		0.0519	mg/L	0.010	98	70	130	4.4	20	
Method: E200.8										
Batch: 29445A										
Sample ID: MB-29445		Method Blank					Run: ICPMS2-C_110405A			04/05/11 22:47
Uranium		ND	pCi/Filter	0.00030						
Sample ID: LCS2-29445		Laboratory Control Sample					Run: ICPMS2-C_110405A			04/05/11 22:51
Uranium		0.103	pCi/Filter	0.00030	103	85	115			
Sample ID: C11030932-003AMS		Sample Matrix Spike					Run: ICPMS2-C_110405A			04/06/11 00:30
Uranium		0.0605	pCi/Filter	0.00030	121	70	130			
Sample ID: C11030932-003AMSD		Sample Matrix Spike Duplicate					Run: ICPMS2-C_110405A			04/06/11 00:34
Uranium		0.0599	pCi/Filter	0.00030	120	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R144419A		
Sample ID: C11040039-001CMS4	3	Sample Matrix Spike					Run: ICPMS4-C_110404A			04/04/11 19:51
Boron		0.0798	mg/L	0.0010	85	70	130			
Iron		1.25	mg/L	0.030	98	70	130			
Selenium		0.0537	mg/L	0.0010	104	70	130			
Sample ID: C11040039-001CMSD	3	Sample Matrix Spike Duplicate					Run: ICPMS4-C_110404A			04/04/11 19:58
Boron		0.0797	mg/L	0.0010	85	70	130	0.1	20	
Iron		1.27	mg/L	0.030	100	70	130	1.9	20	
Selenium		0.0549	mg/L	0.0010	107	70	130	2.3	20	
Sample ID: LRB	3	Method Blank					Run: ICPMS4-C_110404A			04/04/11 12:28
Boron		ND	mg/L	0.10						
Iron		ND	mg/L	0.030						
Selenium		ND	mg/L	0.0010						
Sample ID: LFB	3	Laboratory Fortified Blank					Run: ICPMS4-C_110404A			04/04/11 12:35
Boron		0.0516	mg/L	0.0010	103	85	115			
Iron		1.29	mg/L	0.012	103	85	115			
Selenium		0.0539	mg/L	0.0010	108	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110331A		
Sample ID: ICV	2	Initial Calibration Verification Standard								03/31/11 13:46
Chloride		9.92	mg/L	1.0	99	90	110			
Sulfate		40.3	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R144391		
Sample ID: MBLK	2	Method Blank								03/31/11 14:01
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	4.0						
Sample ID: LFB	2	Laboratory Fortified Blank								03/31/11 15:03
Chloride		12.4	mg/L	1.0	99	90	110			
Sulfate		50.9	mg/L	1.0	101	90	110			
Sample ID: LCS	2	Laboratory Control Sample								03/31/11 21:28
Chloride		9.94	mg/L	1.0	99	90	110			
Sulfate		40.3	mg/L	1.0	100	90	110			
Sample ID: C11030916-005AMS	2	Sample Matrix Spike								04/02/11 05:24
Chloride		21.8	mg/L	1.0	100	80	120			
Sulfate		92.9	mg/L	1.6	102	80	120			
Sample ID: C11030916-005AMSD	2	Sample Matrix Spike Duplicate								04/02/11 05:39
Chloride		22.2	mg/L	1.0	103	80	120	2.0	10	
Sulfate		94.4	mg/L	1.6	104	80	120	1.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0								Analytical Run: IC2-C_110404A			
Sample ID: ICV	2	Initial Calibration Verification Standard									04/04/11 17:49
Chloride		9.93	mg/L	1.0	99	90	110				
Sulfate		40.2	mg/L	1.0	101	90	110				
Method: E300.0								Batch: R144472			
Sample ID: MBLK	2	Method Blank									04/04/11 18:04
Chloride		ND	mg/L	1.0							
Sulfate		ND	mg/L	4.0							
Sample ID: LFB	2	Laboratory Fortified Blank									04/04/11 18:35
Chloride		12.2	mg/L	1.0	97	90	110				
Sulfate		50.2	mg/L	1.0	100	90	110				
Sample ID: LCS	2	Laboratory Control Sample									04/05/11 02:02
Chloride		10.0	mg/L	1.0	100	90	110				
Sulfate		40.5	mg/L	1.0	101	90	110				
Sample ID: C11030927-003AMS	2	Sample Matrix Spike									04/05/11 03:04
Chloride		348	mg/L	2.0	102	80	120				
Sulfate		511	mg/L	8.0	102	80	120				
Sample ID: C11030927-003AMSD	2	Sample Matrix Spike Duplicate									04/05/11 03:19
Chloride		344	mg/L	2.0	97	80	120	1.2	10		
Sulfate		509	mg/L	8.0	101	80	120	0.4	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/25/11
Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144366
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.10						Run: TECHNICON_110401A 04/01/11 12:35
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.55	mg/L	0.10	102	90	110			Run: TECHNICON_110401A 04/01/11 12:37
Sample ID: C11030927-003GMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.07	mg/L	0.10	106	90	110			Run: TECHNICON_110401A 04/01/11 14:09
Sample ID: C11030927-003GMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.06	mg/L	0.10	105	90	110	0.5	10	Run: TECHNICON_110401A 04/01/11 14:12

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: 29445										
Sample ID: C11030927-004HMS		Sample Matrix Spike								
Radium 226		11	pCi/L	104		70	130			04/12/11 09:19
Sample ID: C11030927-004HMSD		Sample Matrix Spike Duplicate								
Radium 226		10	pCi/L	98		70	130	6.4		26.1
Sample ID: LCS-29445		Laboratory Control Sample								
Radium 226		11	pCi/L	95		85	115			04/12/11 14:12
Sample ID: MB-29445	3	Method Blank								
Radium 226		ND	pCi/L	0.10						U
Radium 226 precision (±)		0.13	pCi/L							
Radium 226 MDC		0.32	pCi/L							
Method: E903.0 Batch: RA226-5278										
Sample ID: C11030927-001DMS		Sample Matrix Spike								
Radium 226		33	pCi/L	117		70	130			04/11/11 14:29
Sample ID: C11030927-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		32	pCi/L	110		70	130	2.6		19.9
Sample ID: LCS-RA226-5278		Laboratory Control Sample								
Radium 226		6.7	pCi/L	106		85	115			04/11/11 16:03
Sample ID: MB-RA226-5278	3	Method Blank								
Radium 226		ND	pCi/L	0.10						U
Radium 226 precision (±)		0.095	pCi/L							
Radium 226 MDC		0.19	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1358		
Sample ID: LCS-RA-TH-ISO-1358	Laboratory Control Sample									
Thorium 230		5.6	pCi/L		98	70	130			04/07/11 16:19
Sample ID: C11030927-006DMS	Sample Matrix Spike									
Thorium 230		14	pCi/L		124	70	130			04/07/11 16:19
Sample ID: C11030927-006DMSD	Sample Matrix Spike Duplicate									
Thorium 230		11	pCi/L		97	70	130	24	36.4	04/07/11 16:19
Sample ID: MB-RA-TH-ISO-1358	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						04/08/11 08:53
Thorium 230 precision (±)		0.059	pCi/L							U
Thorium 230 MDC		0.13	pCi/L							
Method: E908.0								Batch: 29445		
Sample ID: C11030927-010HMS	Sample Matrix Spike									
Thorium 230		10	pCi/L		122	70	130			04/12/11 08:55
Sample ID: C11030927-010HMSD	Sample Matrix Spike Duplicate									
Thorium 230		7.4	pCi/L		86	70	130	35	48.2	04/12/11 08:55
Sample ID: LCS-29445	Laboratory Control Sample									
Thorium 230		11	pCi/L		120	70	130			04/12/11 08:55
Sample ID: MB-29445	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						04/12/11 08:55
Thorium 230 precision (±)		0.19	pCi/L							U
Thorium 230 MDC		0.37	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/25/11

Project: Marsland Baseline Samples

Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0096		
Sample ID: T11040009-001CMSD		Sample Matrix Spike Duplicate				Run: SUB-T40161			05/01/11 02:17	
Lead 210		99	pCi/L		91	70	130	15	16.3	
Sample ID: T11040009-001CMS		Sample Matrix Spike				Run: SUB-T40161			05/01/11 00:05	
Lead 210		85	pCi/L		78	70	130			
Sample ID: LCS-PB-210-0096		Laboratory Control Sample				Run: SUB-T40161			04/30/11 17:31	
Lead 210		75	pCi/L		103	70	130			
Sample ID: MB-PB-210-0096	3	Method Blank				Run: SUB-T40161			04/30/11 15:20	
Lead 210		1.2	pCi/L	0.70					U	
Lead 210 precision (±)		1.2	pCi/L							
Lead 210 MDC		1.9	pCi/L							
Method: E909.0								Batch: 13788		
Sample ID: T11040035-001AMSD		Sample Matrix Spike Duplicate				Run: SUB-T40226			05/04/11 08:07	
Lead 210		6.94E-05	pCi/Filter		90	70	130	8.6	15.6	
Sample ID: T11040035-001AMS		Sample Matrix Spike				Run: SUB-T40226			05/04/11 05:56	
Lead 210		7.57E-05	pCi/Filter		98	70	130			
Sample ID: LCS-13788		Laboratory Control Sample				Run: SUB-T40226			05/04/11 01:33	
Lead 210		340	pCi/L		94	70	130			
Sample ID: MB-13788	3	Method Blank				Run: SUB-T40226			05/03/11 23:22	
Lead 210		ND	pCi/L	0.70					U	
Lead 210 precision (±)		5.2	pCi/L							
Lead 210 MDC		8.8	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/25/11
Work Order: C11030927

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: PO210-0359										
Sample ID: C11030927-001EMS		Sample Matrix Spike								
Polonium 210		42	pCi/L		159	70	130			S
- Sample activity for this radionuclide is much larger than the spike activity added. The spike quantity doesn't have a significant affect on the concentration. The LCS and the RPD of the MS/MSD pair are acceptable; this batch is approved.										
Sample ID: C11030927-001EMSD		Sample Matrix Spike Duplicate								
Polonium 210		35	pCi/L		105	70	130	18	63.7	
Sample ID: MB-PO210-0359	3	Method Blank								
Polonium 210		ND	pCi/L	0.20						U
Polonium 210 precision (±)		0.27	pCi/L							
Polonium 210 MDC		0.74	pCi/L							
Sample ID: LCS-PO210-0359		Laboratory Control Sample								
Polonium 210		6.7	pCi/L		106	70	130			
Method: E912.0 Batch: 29445										
Sample ID: C11030927-001HMS		Sample Matrix Spike								
Polonium 210		26	pCi/L		65	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.										
Sample ID: C11030927-001HMSD		Sample Matrix Spike Duplicate								
Polonium 210		28	pCi/L		99	70	130	7.1	52	
Sample ID: LCS-29445		Laboratory Control Sample								
Polonium 210		26	pCi/L		85	70	130			
Sample ID: MB-29445	3	Method Blank								
Polonium 210		0.31	pCi/L	0.20						U
Polonium 210 precision (±)		1.2	pCi/L							
Polonium 210 MDC		2.5	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11030927

Login completed by: Edith McPike

Date Received: 3/31/2011

Reviewed by: BL2000\hackerman

Received by: ha

Reviewed Date: 4/4/2011

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 8.6°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples to be filtered and preserved in the laboratory for dissolved and suspended Radiochem

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂

DATE: 3/29/11

ANALYST: ht

STANDARD CURVE DATA

	BL	0.01	0.05	0.1		
Abs		.044	.179	.349		
Abs						

SAMPLE #	VOLUME	Df	Abs	NO ₂ Mg/L
1	Mustard Monitor	1		
2	1		.001	20.01
3	2		.001	20.01
4	4A		.002	20.01
5	5		.003	20.01
Dup	6		.002	20.01
6	7		.006	20.01
7	8		.004	20.01
8	9		.004	20.01
9	10		.006	20.01
10	11		.003	20.01
Dup				
11	Dup 1	1	.002	20.01
12	DUP 2		.001	20.01
13	Dup 7		.005	20.01
14	Dup 10		.004	20.01
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

May 26, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040187 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 4 samples for Crow Butte Resources on 4/6/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040187-001	BOW-2	04/01/11 00:00	04/06/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11040187-002	BOW-3	04/01/11 00:00	04/06/11	Aqueous	Same As Above
C11040187-003	BOW-5	04/01/11 00:00	04/06/11	Aqueous	Same As Above
C11040187-004	BOW-6	04/01/11 00:00	04/06/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040187

Report Date: 05/26/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

PREP COMMENTS

The prep holding time for the Filtration is dissolved metals was exceeded by 4.33 days.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER,WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-001
Client Sample ID: BOW-2

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	182	mg/L		1		A2320 B	04/08/11 17:41 / jba
Carbonate as CO ₃	37	mg/L		1		A2320 B	04/08/11 17:41 / jba
Bicarbonate as HCO ₃	148	mg/L		1		A2320 B	04/08/11 17:41 / jba
Calcium	6	mg/L		1		E200.7	04/18/11 14:12 / cp
Chloride	31	mg/L		1		E300.0	04/08/11 21:01 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	04/08/11 11:59 / jba
Magnesium	ND	mg/L		1		E200.7	04/18/11 14:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/08/11 15:59 / dc
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	04/07/11 17:33 / dc
Potassium	11	mg/L		1		E200.7	04/18/11 14:12 / cp
Silica	88.1	mg/L		0.2		E200.7	04/18/11 14:12 / cp
Sodium	107	mg/L		1		E200.7	04/18/11 14:12 / cp
Sulfate	37	mg/L		1		E300.0	04/08/11 21:01 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	515	umhos/cm		1		A2510 B	04/07/11 14:16 / lr
pH	9.38	s.u.		0.01		A4500-H B	04/07/11 14:16 / lr
Solids, Total Dissolved TDS @ 180 C	342	mg/L		10		A2540 C	04/07/11 15:51 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/18/11 14:12 / cp
Arsenic	0.005	mg/L		0.001		E200.8	04/11/11 19:33 / sml
Barium	ND	mg/L		0.1		E200.8	04/11/11 19:33 / sml
Boron	0.2	mg/L		0.1		E200.7	04/18/11 14:12 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/11/11 19:33 / sml
Chromium	ND	mg/L		0.05		E200.8	04/11/11 19:33 / sml
Copper	ND	mg/L		0.01		E200.8	04/11/11 19:33 / sml
Iron	ND	mg/L		0.03		E200.7	04/18/11 14:12 / cp
Lead	ND	mg/L		0.001		E200.8	04/11/11 19:33 / sml
Manganese	ND	mg/L		0.01		E200.8	04/11/11 19:33 / sml
Mercury	ND	mg/L		0.001		E200.8	04/11/11 19:33 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/11/11 19:33 / sml
Nickel	ND	mg/L		0.05		E200.8	04/11/11 19:33 / sml
Selenium	ND	mg/L		0.001		E200.8	04/11/11 19:33 / sml
Uranium	0.0035	mg/L		0.0003		E200.8	04/11/11 19:33 / sml
Uranium, Activity	2.4E-09	uCi/mL		2.0E-10		E200.8	04/11/11 19:33 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/11/11 19:33 / sml
Zinc	0.06	mg/L		0.01		E200.8	04/11/11 19:33 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 17:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 17:23 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-001
Client Sample ID: BOW-2

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 10:26 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 10:26 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 10:26 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/27/11 08:39 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/27/11 08:39 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/27/11 08:39 / ep
Radium 226	<0.21	pCi/L	U	0.21		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.21	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 18:31 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 18:31 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 18:31 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.14	pCi/L	U	0.14		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/28/11 08:51 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.824	%				Calculation	04/20/11 09:04 / kbh
Anions	5.37	meq/L				Calculation	04/20/11 09:04 / kbh
Cations	5.29	meq/L				Calculation	04/20/11 09:04 / kbh
Solids, Total Dissolved Calculated	418	mg/L				Calculation	04/20/11 09:04 / kbh
TDS Balance (0.80 - 1.20)	0.820					Calculation	04/20/11 09:04 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-002
Client Sample ID: BOW-3

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	171	mg/L		1		A2320 B	04/08/11 17:50 / jba
Carbonate as CO3	32	mg/L		1		A2320 B	04/08/11 17:50 / jba
Bicarbonate as HCO3	144	mg/L		1		A2320 B	04/08/11 17:50 / jba
Calcium	5	mg/L		1		E200.7	04/18/11 14:24 / cp
Chloride	32	mg/L		1		E300.0	04/08/11 21:16 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/08/11 12:01 / jba
Magnesium	ND	mg/L		1		E200.7	04/18/11 14:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/08/11 16:01 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	04/07/11 17:36 / dc
Potassium	10	mg/L		1		E200.7	04/18/11 14:24 / cp
Silica	87.0	mg/L		0.2		E200.7	04/18/11 14:24 / cp
Sodium	118	mg/L		1		E200.7	04/18/11 14:24 / cp
Sulfate	60	mg/L	D	2		E300.0	04/08/11 21:16 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	550	umhos/cm		1		A2510 B	04/07/11 14:18 / lr
pH	9.41	s.u.		0.01		A4500-H B	04/07/11 14:18 / lr
Solids, Total Dissolved TDS @ 180 C	374	mg/L		10		A2540 C	04/07/11 15:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/18/11 14:24 / cp
Arsenic	0.009	mg/L		0.001		E200.8	04/11/11 19:40 / sml
Barium	ND	mg/L		0.1		E200.8	04/11/11 19:40 / sml
Boron	0.3	mg/L		0.1		E200.7	04/18/11 14:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/11/11 19:40 / sml
Chromium	ND	mg/L		0.05		E200.8	04/11/11 19:40 / sml
Copper	ND	mg/L		0.01		E200.8	04/11/11 19:40 / sml
Iron	ND	mg/L		0.03		E200.7	04/18/11 14:24 / cp
Lead	ND	mg/L		0.001		E200.8	04/11/11 19:40 / sml
Manganese	ND	mg/L		0.01		E200.8	04/11/11 19:40 / sml
Mercury	ND	mg/L		0.001		E200.8	04/11/11 19:40 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/11/11 19:40 / sml
Nickel	ND	mg/L		0.05		E200.8	04/11/11 19:40 / sml
Selenium	0.003	mg/L		0.001		E200.8	04/11/11 19:40 / sml
Uranium	0.0041	mg/L		0.0003		E200.8	04/11/11 19:40 / sml
Uranium, Activity	2.8E-09	uCi/mL		2.0E-10		E200.8	04/11/11 19:40 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/11/11 19:40 / sml
Zinc	0.11	mg/L		0.01		E200.8	04/11/11 19:40 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 17:27 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 17:27 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-002
Client Sample ID: BOW-3

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 12:37 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 12:37 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 12:37 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	04/27/11 10:52 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	04/27/11 10:52 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	04/27/11 10:52 / ep
Radium 226	<0.22	pCi/L	U	0.22		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.22	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 20:43 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 20:43 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 20:43 / eli-cs
Polonium 210	0.3	pCi/L		0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.14	pCi/L	U	0.14		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.14	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/28/11 08:51 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	04/28/11 08:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0620	%				Calculation	04/20/11 09:04 / kbh
Anions	5.65	meq/L				Calculation	04/20/11 09:04 / kbh
Cations	5.66	meq/L				Calculation	04/20/11 09:04 / kbh
Solids, Total Dissolved Calculated	442	mg/L				Calculation	04/20/11 09:04 / kbh
TDS Balance (0.80 - 1.20)	0.850					Calculation	04/20/11 09:04 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-003
Client Sample ID: BOW-5

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	152	mg/L		1		A2320 B	04/08/11 18:16 / jba
Carbonate as CO ₃	4	mg/L		1		A2320 B	04/08/11 18:16 / jba
Bicarbonate as HCO ₃	177	mg/L		1		A2320 B	04/08/11 18:16 / jba
Calcium	29	mg/L		1		E200.7	04/18/11 14:32 / cp
Chloride	5	mg/L		1		E300.0	04/08/11 22:02 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/08/11 12:13 / jba
Magnesium	7	mg/L		1		E200.7	04/18/11 14:32 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/08/11 16:03 / dc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	04/07/11 17:38 / dc
Potassium	4	mg/L		1		E200.7	04/18/11 14:32 / cp
Silica	78.6	mg/L		0.2		E200.7	04/18/11 14:32 / cp
Sodium	27	mg/L		1		E200.7	04/18/11 14:32 / cp
Sulfate	9	mg/L		1		E300.0	04/08/11 22:02 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	307	umhos/cm		1		A2510 B	04/07/11 14:20 / lr
pH	8.19	s.u.		0.01		A4500-H B	04/07/11 14:20 / lr
Solids, Total Dissolved TDS @ 180 C	200	mg/L		10		A2540 C	04/07/11 15:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/18/11 14:32 / cp
Arsenic	0.003	mg/L		0.001		E200.8	04/11/11 20:14 / sml
Barium	0.1	mg/L		0.1		E200.8	04/11/11 20:14 / sml
Boron	ND	mg/L		0.1		E200.7	04/18/11 14:32 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/11/11 20:14 / sml
Chromium	ND	mg/L		0.05		E200.8	04/11/11 20:14 / sml
Copper	ND	mg/L		0.01		E200.8	04/11/11 20:14 / sml
Iron	ND	mg/L		0.03		E200.7	04/18/11 14:32 / cp
Lead	ND	mg/L		0.001		E200.8	04/11/11 20:14 / sml
Manganese	ND	mg/L		0.01		E200.8	04/11/11 20:14 / sml
Mercury	ND	mg/L		0.001		E200.8	04/11/11 20:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/11/11 20:14 / sml
Nickel	ND	mg/L		0.05		E200.8	04/11/11 20:14 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/11/11 20:14 / sml
Uranium	0.0076	mg/L		0.0003		E200.8	04/11/11 20:14 / sml
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	04/11/11 20:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/11/11 20:14 / sml
Zinc	0.10	mg/L		0.01		E200.8	04/11/11 20:14 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 17:31 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 17:31 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-003
Client Sample ID: BOW-5

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 14:48 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 14:48 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 14:48 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	04/27/11 10:52 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/27/11 10:52 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	04/27/11 10:52 / ep
Radium 226	<0.16	pCi/L	U	0.16		E903.0	04/13/11 08:12 / ep
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/13/11 08:12 / ep
Radium 226 MDC	0.16	pCi/L				E903.0	04/13/11 08:12 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/07/11 22:54 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/07/11 22:54 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/07/11 22:54 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.15	pCi/L	U	0.15		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.15	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/28/11 08:51 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	04/28/11 08:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.82	%				Calculation	04/20/11 09:05 / kbh
Anions	3.45	meq/L				Calculation	04/20/11 09:05 / kbh
Cations	3.33	meq/L				Calculation	04/20/11 09:05 / kbh
Solids, Total Dissolved Calculated	277	mg/L				Calculation	04/20/11 09:05 / kbh
TDS Balance (0.80 - 1.20)	0.720					Calculation	04/20/11 09:05 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-004
Client Sample ID: BOW-6

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	143	mg/L		1		A2320 B	04/08/11 18:24 / jba
Carbonate as CO ₃	3	mg/L		1		A2320 B	04/08/11 18:24 / jba
Bicarbonate as HCO ₃	168	mg/L		1		A2320 B	04/08/11 18:24 / jba
Calcium	32	mg/L		1		E200.7	04/18/11 14:36 / cp
Chloride	10	mg/L		1		E300.0	04/08/11 22:18 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/08/11 12:20 / jba
Magnesium	7	mg/L		1		E200.7	04/18/11 14:36 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/08/11 16:05 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	04/07/11 17:41 / dc
Potassium	5	mg/L		1		E200.7	04/18/11 14:36 / cp
Silica	71.5	mg/L		0.2		E200.7	04/18/11 14:36 / cp
Sodium	25	mg/L		1		E200.7	04/18/11 14:36 / cp
Sulfate	10	mg/L		1		E300.0	04/08/11 22:18 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	310	umhos/cm		1		A2510 B	04/07/11 14:22 / lr
pH	8.27	s.u.		0.01		A4500-H B	04/07/11 14:22 / lr
Solids, Total Dissolved TDS @ 180 C	206	mg/L		10		A2540 C	04/07/11 15:52 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/18/11 14:36 / cp
Arsenic	0.005	mg/L		0.001		E200.8	04/11/11 20:21 / sml
Barium	0.1	mg/L		0.1		E200.8	04/11/11 20:21 / sml
Boron	ND	mg/L		0.1		E200.7	04/18/11 14:36 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/11/11 20:21 / sml
Chromium	ND	mg/L		0.05		E200.7	04/18/11 14:36 / cp
Copper	ND	mg/L		0.01		E200.8	04/11/11 20:21 / sml
Iron	ND	mg/L		0.03		E200.7	04/18/11 14:36 / cp
Lead	ND	mg/L		0.001		E200.8	04/11/11 20:21 / sml
Manganese	ND	mg/L		0.01		E200.7	04/18/11 14:36 / cp
Mercury	ND	mg/L		0.001		E200.8	04/11/11 20:21 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/11/11 20:21 / sml
Nickel	ND	mg/L		0.05		E200.8	04/11/11 20:21 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/11/11 20:21 / sml
Uranium	0.0058	mg/L		0.0003		E200.8	04/11/11 20:21 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	04/11/11 20:21 / sml
Vanadium	ND	mg/L		0.1		E200.7	04/18/11 14:36 / cp
Zinc	0.07	mg/L		0.01		E200.8	04/11/11 20:21 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 17:35 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 17:35 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040187-004
Client Sample ID: BOW-6

Report Date: 05/26/11
Collection Date: 04/01/11
Date Received: 04/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/11/11 17:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/11/11 17:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/11/11 17:00 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	04/27/11 10:52 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	04/27/11 10:52 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	04/27/11 10:52 / ep
Radium 226	<0.17	pCi/L	U	0.17		E903.0	04/13/11 09:50 / ep
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/13/11 09:50 / ep
Radium 226 MDC	0.17	pCi/L				E903.0	04/13/11 09:50 / ep
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/08/11 01:06 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/08/11 01:06 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/08/11 01:06 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:56 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	05/05/11 08:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:56 / ep
Radium 226	<0.13	pCi/L	U	0.13		E903.0	04/26/11 03:02 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	04/26/11 03:02 / trs
Radium 226 MDC	0.13	pCi/L				E903.0	04/26/11 03:02 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	04/28/11 08:51 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	04/28/11 08:51 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	04/28/11 08:51 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.34	%				Calculation	04/20/11 09:05 / kbh
Anions	3.44	meq/L				Calculation	04/20/11 09:05 / kbh
Cations	3.34	meq/L				Calculation	04/20/11 09:05 / kbh
Solids, Total Dissolved Calculated	269	mg/L				Calculation	04/20/11 09:05 / kbh
TDS Balance (0.80 - 1.20)	0.770					Calculation	04/20/11 09:05 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144652
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110408B 04/08/11 17:09
Alkalinity, Total as CaCO3		2	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		3	mg/L		1					
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110408B 04/08/11 17:25
Alkalinity, Total as CaCO3		214	mg/L	5.0	106	90	110			
Sample ID: C11040187-002BDUP		Sample Duplicate								Run: MANTECH_110408B 04/08/11 17:59
Alkalinity, Total as CaCO3		172	mg/L	5.0				0.0	10	
Sample ID: C11040187-002BMS		Sample Matrix Spike								Run: MANTECH_110408B 04/08/11 18:08
Alkalinity, Total as CaCO3		306	mg/L	5.0	107	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110407A		
Sample ID: ICV2_110407_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			04/07/11 13:42
Method: A2510 B								Batch: 110407_1_PH-W_555A-2		
Sample ID: MBLK1_110407_1	Method Blank									
Conductivity @ 25 C		0.4	umhos/cm	0.2						Run: ORION555A-2_110407A 04/07/11 13:38
Sample ID: C11040172-002ADUP	Sample Duplicate									
Conductivity @ 25 C		781	umhos/cm	1.0				0.0	10	Run: ORION555A-2_110407A 04/07/11 14:10

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110407_1_SLDS-TDS-W		
Sample ID: MBLK1_110407		Method Blank					Run: BAL-1_110407B			04/07/11 15:48
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110407		Laboratory Control Sample					Run: BAL-1_110407B			04/07/11 15:48
Solids, Total Dissolved TDS @ 180 C		980	mg/L	10	98	90	110			
Sample ID: C11040187-004ADUP		Sample Duplicate					Run: BAL-1_110407B			04/07/11 15:53
Solids, Total Dissolved TDS @ 180 C		207	mg/L	10				0.7	10	
Sample ID: C11040222-001BMS		Sample Matrix Spike					Run: BAL-1_110407B			04/07/11 15:54
Solids, Total Dissolved TDS @ 180 C		2240	mg/L	10	101	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144644
Sample ID: MBLK		Method Blank								Run: MANTECH_110408A
Fluoride		0.02	mg/L	0.008						04/08/11 09:17
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110408A
Fluoride		0.940	mg/L	0.10	92	90	110			04/08/11 09:24
Sample ID: C11040187-004BMS		Sample Matrix Spike								Run: MANTECH_110408A
Fluoride		1.53	mg/L	0.10	95	80	120			04/08/11 12:23
Sample ID: C11040187-004BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110408A
Fluoride		1.53	mg/L	0.10	95	80	120	0.0	10	04/08/11 12:27

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110407A		
Sample ID: ICV1_110407_1	Initial Calibration Verification Standard									
pH		6.91	s.u.	0.010	101	98	102			04/07/11 13:40
Method: A4500-H B								Batch: 110407_1_PH-W_555A-2		
Sample ID: C11040172-002ADUP	Sample Duplicate									
pH		7.66	s.u.	0.010				0.0	3	Run: ORION555A-2_110407A 04/07/11 14:10

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/26/11
Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R144645
Sample ID: MBLK-1		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.02						Run: TECHNICON_110408B 04/08/11 15:55
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Ammonia as N		1.97	mg/L	0.050	99	90	110			Run: TECHNICON_110408B 04/08/11 15:57
Sample ID: C11040206-001BMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.87	mg/L	0.050	95	80	120			Run: TECHNICON_110408B 04/08/11 16:09
Sample ID: C11040206-001BMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		1.80	mg/L	0.050	92	80	120	3.8	10	Run: TECHNICON_110408B 04/08/11 16:11

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R144962										
Sample ID: MB-110418A	11	Method Blank								
Run: ICP2-C_110418A 04/18/11 12:59										
Aluminum		ND	mg/L	0.01						
Boron		0.03	mg/L	0.01						
Calcium		ND	mg/L	0.1						
Chromium		ND	mg/L	0.002						
Iron		ND	mg/L	0.001						
Magnesium		ND	mg/L	0.05						
Manganese		ND	mg/L	0.0003						
Potassium		ND	mg/L	0.05						
Silicon		ND	mg/L	0.007						
Sodium		ND	mg/L	0.2						
Vanadium		ND	mg/L	0.01						
Sample ID: LFB-110418A	11	Laboratory Fortified Blank								
Run: ICP2-C_110418A 04/18/11 13:03										
Aluminum		0.928	mg/L	0.10	93	85	115			
Boron		0.960	mg/L	0.10	93	85	115			
Calcium		48.0	mg/L	0.50	96	85	115			
Chromium		0.932	mg/L	0.050	93	85	115			
Iron		0.960	mg/L	0.030	96	85	115			
Magnesium		48.1	mg/L	0.50	96	85	115			
Manganese		0.927	mg/L	0.010	93	85	115			
Potassium		43.1	mg/L	0.50	86	85	115			
Silicon		0.449	mg/L	0.10	95	85	115			
Sodium		49.2	mg/L	0.50	98	85	115			
Vanadium		0.944	mg/L	0.10	94	85	115			
Sample ID: C11040187-001CMS2	11	Sample Matrix Spike								
Run: ICP2-C_110418A 04/18/11 14:16										
Aluminum		1.93	mg/L	0.10	95	70	130			
Boron		2.15	mg/L	0.10	97	70	130			
Calcium		105	mg/L	1.0	97	70	130			
Chromium		1.99	mg/L	0.050	98	70	130			
Iron		2.04	mg/L	0.030	100	70	130			
Magnesium		99.6	mg/L	1.0	97	70	130			
Manganese		1.95	mg/L	0.010	96	70	130			
Potassium		99.9	mg/L	1.0	87	70	130			
Silicon		42.5	mg/L	0.10		70	130			A
Sodium		216	mg/L	1.0	107	70	130			
Vanadium		1.99	mg/L	0.10	98	70	130			
Sample ID: C11040187-001CMSD	11	Sample Matrix Spike Duplicate								
Run: ICP2-C_110418A 04/18/11 14:20										
Aluminum		1.88	mg/L	0.10	92	70	130	2.6	20	
Boron		2.18	mg/L	0.10	98	70	130	1.4	20	
Calcium		104	mg/L	1.0	96	70	130	0.4	20	
Chromium		1.98	mg/L	0.050	97	70	130	0.6	20	
Iron		2.01	mg/L	0.030	98	70	130	1.1	20	
Magnesium		99.7	mg/L	1.0	97	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/26/11
Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: R144962		
Sample ID: C11040187-001CMSD				11	Sample Matrix Spike Duplicate			Run: ICP2-C_110418A		04/18/11 14:20
Manganese		1.94	mg/L	0.010	95	70	130	0.6	20	
Potassium		98.7	mg/L	1.0	86	70	130	1.3	20	
Silicon		41.7	mg/L	0.10		70	130	1.9	20	A
Sodium		214	mg/L	1.0	104	70	130	1.2	20	
Vanadium		2.04	mg/L	0.10	100	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144696										
Sample ID: LRB	14	Method Blank								
Run: ICPMS2-C_110411A										
04/11/11 12:14										
Arsenic		ND	mg/L	6E-05						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		6E-05	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	8E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Selenium		ND	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	14	Laboratory Fortified Blank								
Run: ICPMS2-C_110411A										
04/11/11 12:21										
Arsenic		0.0521	mg/L	0.0010	104	85	115			
Barium		0.0525	mg/L	0.0010	105	85	115			
Cadmium		0.0514	mg/L	0.0010	103	85	115			
Chromium		0.0511	mg/L	0.0010	102	85	115			
Copper		0.0515	mg/L	0.0010	103	85	115			
Lead		0.0511	mg/L	0.0010	102	85	115			
Manganese		0.0514	mg/L	0.0010	103	85	115			
Mercury		0.00532	mg/L	0.0010	106	85	115			
Molybdenum		0.0518	mg/L	0.0010	104	85	115			
Nickel		0.0511	mg/L	0.0010	102	85	115			
Selenium		0.0529	mg/L	0.0010	106	85	115			
Uranium		0.0497	mg/L	0.00030	99	85	115			
Vanadium		0.0510	mg/L	0.0010	102	85	115			
Zinc		0.0521	mg/L	0.0010	104	85	115			
Sample ID: C11040280-002BMS4	14	Sample Matrix Spike								
Run: ICPMS2-C_110411A										
04/11/11 20:55										
Arsenic		0.0518	mg/L	0.0010	102	70	130			
Barium		0.0668	mg/L	0.0010	108	70	130			
Cadmium		0.0457	mg/L	0.010	91	70	130			
Chromium		0.0500	mg/L	0.0010	99	70	130			
Copper		0.0500	mg/L	0.010	95	70	130			
Lead		0.0547	mg/L	0.050	109	70	130			
Manganese		0.242	mg/L	0.010	88	70	130			
Mercury		0.00515	mg/L	0.0010	103	70	130			
Molybdenum		0.0541	mg/L	0.0010	106	70	130			
Nickel		0.0544	mg/L	0.050	97	70	130			
Selenium		0.0680	mg/L	0.0010	93	70	130			
Uranium		0.0797	mg/L	0.00030	119	70	130			
Vanadium		0.0521	mg/L	0.0010	104	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: R144696										
Sample ID: C11040280-002BMS4	14	Sample Matrix Spike								
Zinc		0.0462	mg/L	0.010	82	70	130			04/11/11 20:55
Run: ICPMS2-C_110411A										
Sample ID: C11040280-002BMSD	14	Sample Matrix Spike Duplicate								
Arsenic		0.0552	mg/L	0.0010	109	70	130	6.2	20	04/11/11 21:02
Barium		0.0698	mg/L	0.0010	114	70	130	4.4	20	
Cadmium		0.0489	mg/L	0.010	98	70	130	6.7	20	
Chromium		0.0532	mg/L	0.0010	106	70	130	6.3	20	
Copper		0.0534	mg/L	0.010	102	70	130	6.7	20	
Lead		0.0587	mg/L	0.050	117	70	130	7.2	20	
Manganese		0.246	mg/L	0.010	95	70	130	1.4	20	
Mercury		0.00555	mg/L	0.0010	111	70	130	7.5	20	
Molybdenum		0.0585	mg/L	0.0010	115	70	130	7.9	20	
Nickel		0.0596	mg/L	0.050	108	70	130	9.3	20	
Selenium		0.0703	mg/L	0.0010	97	70	130	3.3	20	
Uranium		0.0842	mg/L	0.00030	128	70	130	5.5	20	
Vanadium		0.0550	mg/L	0.0010	110	70	130	5.3	20	
Zinc		0.0490	mg/L	0.010	88	70	130	5.9	20	
Run: ICPMS2-C_110411A										
Method: E200.8 Batch: 29522A										
Sample ID: C11040187-004HMS		Sample Matrix Spike								
Uranium		0.00488	mg/L	0.00030	108	70	130			04/13/11 17:39
Run: ICPMS4-C_110413A										
Sample ID: C11040187-004HMSD		Sample Matrix Spike Duplicate								
Uranium		0.00484	mg/L	0.00030	107	70	130	0.8	20	04/13/11 17:43
Run: ICPMS4-C_110413A										
Sample ID: MB-29522		Method Blank								
Uranium		0.0001	pCi/Filter							04/13/11 14:15
Run: ICPMS4-C_110413A										
Sample ID: LCS2-29522		Laboratory Control Sample								
Uranium		0.105	pCi/Filter	0.00030	104	85	115			04/13/11 14:19
Run: ICPMS4-C_110413A										

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0								Analytical Run: IC2-C_110407A			
Sample ID: ICV	2	Initial Calibration Verification Standard							04/07/11 19:20		
Chloride		9.81	mg/L	1.0	98	90	110				
Sulfate		40.8	mg/L	1.0	102	90	110				
Method: E300.0								Batch: R144657			
Sample ID: MBLK	2	Method Blank							Run: IC2-C_110407A		04/07/11 19:35
Chloride		0.04	mg/L	0.04							
Sulfate		0.2	mg/L	0.1							
Sample ID: LFB	2	Laboratory Fortified Blank							Run: IC2-C_110407A		04/07/11 20:06
Chloride		12.2	mg/L	1.0	97	90	110				
Sulfate		50.5	mg/L	1.0	101	90	110				
Sample ID: C11040187-002BMS	2	Sample Matrix Spike							Run: IC2-C_110407A		04/08/11 21:31
Chloride		52.3	mg/L	1.0	104	80	120				
Sulfate		140	mg/L	1.6	102	80	120				
Sample ID: C11040187-002BMSD	2	Sample Matrix Spike Duplicate							Run: IC2-C_110407A		04/08/11 21:47
Chloride		52.0	mg/L	1.0	103	80	120	0.7	10		
Sulfate		140	mg/L	1.6	102	80	120	0.2	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144602
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110407A
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						04/07/11 12:21
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110407A
Nitrogen, Nitrate+Nitrite as N		2.64	mg/L	0.10	106	90	110			04/07/11 12:23
Sample ID: C11040187-004GMS		Sample Matrix Spike								Run: TECHNICON_110407A
Nitrogen, Nitrate+Nitrite as N		2.90	mg/L	0.10	100	90	110			04/07/11 17:43
Sample ID: C11040187-004GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110407A
Nitrogen, Nitrate+Nitrite as N		2.89	mg/L	0.10	99	90	110	0.3	10	04/07/11 17:46

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 29522
Sample ID: C11040105-001HMS		Sample Matrix Spike								Run: BERTHOLD 770-1_110419A 04/26/11 01:26
Radium 226		11	pCi/L	108		70	130			
Sample ID: C11040105-001HMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-1_110419A 04/26/11 01:26
Radium 226		12	pCi/L	114		70	130	8.8	25	
Sample ID: LCS-29522		Laboratory Control Sample								Run: BERTHOLD 770-1_110419A 04/26/11 03:02
Radium 226		13	pCi/L	113		85	115			
Sample ID: MB-29522	3	Method Blank								Run: BERTHOLD 770-1_110419A 04/26/11 03:02
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Method: E903.0										Batch: RA226-5282
Sample ID: C11040060-001CMS		Sample Matrix Spike								Run: BERTHOLD 770-2_110407A 04/13/11 11:40
Radium 226		12	pCi/L	97		70	130			
Sample ID: C11040060-001CMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-2_110407A 04/13/11 11:40
Radium 226		13	pCi/L	101		70	130	3.9	27	
Sample ID: MB-RA226-5282	3	Method Blank								Run: BERTHOLD 770-2_110407A 04/13/11 11:40
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5282		Laboratory Control Sample								Run: BERTHOLD 770-2_110407A 04/13/11 11:40
Radium 226		6.9	pCi/L	111		85	115			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0 Batch: 29522										
Sample ID: C11040187-004HMS		Sample Matrix Spike								
Thorium 230		9.7	pCi/L	116		70	130			04/28/11 08:51
Sample ID: C11040187-004HMSD		Sample Matrix Spike Duplicate								
Thorium 230		16	pCi/L	188		70	130	51	54.6	S
- Spike response is outside of the acceptance range for this analysis. Since the LCS, MS, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: LCS-29522		Laboratory Control Sample								
Thorium 230		11	pCi/L	113		70	130			04/28/11 08:51
Sample ID: MB-29522	3	Method Blank								
Thorium 230		-0.2	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.3	pCi/L							
Method: E908.0 Batch: RA-TH-ISO-1373										
Sample ID: LCS-RA-TH-ISO-1373		Laboratory Control Sample								
Thorium 230		5.4	pCi/L	96		70	130			05/02/11 09:12
Sample ID: C11040105-001DMS		Sample Matrix Spike								
Thorium 230		12	pCi/L	102		70	130			05/02/11 09:11
Sample ID: C11040105-001DMSD		Sample Matrix Spike Duplicate								
Thorium 230		12	pCi/L	101		70	130	0.4	37.2	
Sample ID: MB-RA-TH-ISO-1373	3	Method Blank								
Thorium 230		-0.01	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										
Batch: T_13773										
Sample ID: T11040038-001HMSD		Sample Matrix Spike Duplicate								
Lead 210		73	pCi/L		77	70	130	1.9	16.1	05/07/11 05:23
Sample ID: T11040038-001HMS		Sample Matrix Spike								
Lead 210		74	pCi/L		78	70	130			05/07/11 03:11
Sample ID: LCS-13773		Laboratory Control Sample								
Lead 210		290	pCi/L		81	70	130			05/06/11 22:49
Sample ID: MB-13773	3	Method Blank								
Lead 210		-2	pCi/L							05/06/11 20:37
Lead 210 precision (±)		5	pCi/L							U
Lead 210 MDC		8	pCi/L							
Method: E909.0										
Batch: T_PB-210-0088										
Sample ID: T11040038-001FMSD		Sample Matrix Spike Duplicate								
Lead 210		100	pCi/L		97	70	130	7.6	15.9	05/10/11 21:17
Sample ID: MB-PB-210-0088	3	Method Blank								
Lead 210		-0.2	pCi/L							05/09/11 19:00
Lead 210 precision (±)		1	pCi/L							U
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0088		Laboratory Control Sample								
Lead 210		77	pCi/L		108	70	130			05/09/11 21:11
Sample ID: T11040038-001FMS		Sample Matrix Spike								
Lead 210		110	pCi/L		105	70	130			05/10/11 19:06

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/26/11

Project: Marsland Baseline Samples

Work Order: C11040187

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0364		
Sample ID: C11040187-001EMS		Sample Matrix Spike				Run: EGG-ORTEC_110425B			04/27/11 08:39	
Polonium 210		12	pCi/L	93		70	130			
Sample ID: C11040187-001EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110425B			04/27/11 10:52	
Polonium 210		12	pCi/L	90		70	130	3.1	79.2	
Sample ID: MB-PO210-0364	3	Method Blank				Run: EGG-ORTEC_110425B			04/27/11 10:52	
Polonium 210		0.07	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0364		Laboratory Control Sample				Run: EGG-ORTEC_110425B			04/27/11 10:52	
Polonium 210		6.3	pCi/L	99		70	130			
Method: E912.0								Batch: 29522		
Sample ID: C11040187-004HMS		Sample Matrix Spike				Run: EGG-ORTEC_110503B			05/05/11 08:56	
Polonium 210		6.0	pCi/L	112		70	130			
Sample ID: C11040187-004HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110503B			05/05/11 08:56	
Polonium 210		6.1	pCi/L	115		70	130	2.5	70.8	
Sample ID: LCS-29522		Laboratory Control Sample				Run: EGG-ORTEC_110503B			05/05/11 08:56	
Polonium 210		35	pCi/L	118		70	130			
Sample ID: MB-29522	3	Method Blank				Run: EGG-ORTEC_110503B			05/05/11 08:56	
Polonium 210		-0.1	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11040187

Login completed by: Edith McPike
 Reviewed by: BL2000\Tedwards
 Reviewed Date: 4/7/2011

Date Received: 4/6/2011
 Received by: ha
 Carrier Ground name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 6.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

 Contact and Corrective Action Comments:

Samples filtered and preserved in the laboratory for dissolved radionuclides.



Chain of Custody and Analytical Request Record

Company Name: Crow Butte Resources, Inc.
Project Name: Marsland Baseline Samples
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Phone/Fax: 308-665-2341
Contact Name: Larry Teahon
Invoice Address: P.O. Box 169, Crawford, NE 69339
Special Report/Formats -- ELI must be notified prior to sample submittal for the following:
 DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Company Name: Energy Laboratories
Project Name: Marsland Baseline Samples
Report Mail Address: P.O. Box 169, Crawford, NE 69339
Phone/Fax: 308-665-2341
Contact Name: Larry Teahon
Invoice Address: P.O. Box 169, Crawford, NE 69339
Special Report/Formats -- ELI must be notified prior to sample submittal for the following:
 DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP **Format:** _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Sample Identification Table:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Matrix	Number of Containers (AWS/B/O, Air/Water/Solids/Other)	ANALYSIS REQUESTED	SEE ATTACHED	Normal Turnaround (TAT)	ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	On Ice:	Receipt Temp	Cooler ID(s):	Shipped by:	
1 BOW-2	4/1/11		Water	5	RAW-F, Common ions				RUSH Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L. Please report 5/10/11	(Yes)	68 °C		ELI	
2 BOW-3	4/1/11		Water	5	RAW-F, Alkalinity									
3 BOW-5	4/1/11		Water	5	H2SO4-F, NO2, NO3, NH4									
4 BOW-6	4/1/11		Water	5	RAW-UF, Ra226, Po210 dis, RAW-UF, Pb210 dis and sus									
5					RAW-UF, Th230, U-nat dis and sus									
6														
7														
8														
9														
10														

Signature: Brooke Bass (Received by (print): Brooke Bass, Date/Time: 4/4/11 11:58 am)
Signature: [Signature] (Received by (print): [Name], Date/Time: [Date/Time])
Signature: [Signature] (Received by Laboratory: [Name], Date/Time: 4/4/11 9:20 am)

Sample Disposal: Return to Client: NO Lab Disposal: YES

Custody Record MUST be Signed

LABORATORY USE ONLY

01/10/40187

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO 2

DATE: 4/2/11

ANALYST: jt

STANDARD CURVE DATA

	BL	.01	.05	.1	999995		
Abs		.035	.174	.346			
Abs							

SAMPLE #	VOLUME	DF	Abs	NO2 Mg/L
1	Bow 2 10ml	1	.013	20.01
2	Bow 3 10ml		.448 .448	.013
3	Bow 5 10ml		.001	20.01
4	Bow 6 10ml		.005 .004	20.01
5				
Dup	Dup Bow 3 set up new Sample 10ml	1	.452	.013
6	Dup Bow 3		.448	.013
7	Dup Bow 6		.004	20.01
8				
9	Dup Soil Sample Bow 3	2	222	.013
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

May 31, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040296 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 3 samples for Crow Butte Resources on 4/8/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040296-001	BOW-4A	04/05/11 00:00	04/08/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11040296-002	BOW-7	04/05/11 00:00	04/08/11	Aqueous	Same As Above
C11040296-003	BOW-8	04/05/11 00:00	04/08/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040296

Report Date: 05/31/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-001
Client Sample ID: BOW-4A

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	175	mg/L		1		A2320 B	04/09/11 02:41 / jba
Carbonate as CO3	16	mg/L		1		A2320 B	04/09/11 02:41 / jba
Bicarbonate as HCO3	180	mg/L		1		A2320 B	04/09/11 02:41 / jba
Calcium	13	mg/L		1		E200.7	04/21/11 19:10 / cp
Chloride	24	mg/L		1		E300.0	04/13/11 04:49 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/13/11 09:22 / jba
Magnesium	2	mg/L		1		E200.7	04/21/11 19:10 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/11/11 12:42 / dc
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	04/14/11 12:26 / dc
Potassium	11	mg/L		1		E200.7	04/21/11 19:10 / cp
Silica	78.2	mg/L		0.2		E200.7	04/21/11 19:10 / cp
Sodium	100	mg/L		1		E200.7	04/21/11 19:10 / cp
Sulfate	50	mg/L	D	2		E300.0	04/13/11 04:49 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	514	umhos/cm		1		A2510 B	04/08/11 17:05 / lr
pH	8.92	s.u.		0.01		A4500-H B	04/08/11 17:05 / lr
Solids, Total Dissolved TDS @ 180 C	358	mg/L		10		A2540 C	04/08/11 17:01 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/21/11 19:10 / cp
Arsenic	0.015	mg/L		0.001		E200.8	04/12/11 02:07 / sml
Barium	ND	mg/L		0.1		E200.8	04/12/11 02:07 / sml
Boron	0.1	mg/L		0.1		E200.7	04/21/11 19:10 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/12/11 02:07 / sml
Chromium	ND	mg/L		0.05		E200.8	04/12/11 02:07 / sml
Copper	ND	mg/L		0.01		E200.8	04/12/11 02:07 / sml
Iron	ND	mg/L		0.03		E200.7	04/21/11 19:10 / cp
Lead	ND	mg/L		0.001		E200.8	04/12/11 02:07 / sml
Manganese	ND	mg/L		0.01		E200.8	04/12/11 02:07 / sml
Mercury	ND	mg/L		0.001		E200.8	04/12/11 02:07 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/11 02:07 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/11 02:07 / sml
Selenium	0.009	mg/L		0.001		E200.8	04/12/11 02:07 / sml
Uranium	0.0095	mg/L		0.0003		E200.8	04/12/11 02:07 / sml
Uranium, Activity	6.4E-09	uCi/mL		2.0E-10		E200.8	04/12/11 02:07 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/12/11 02:07 / sml
Zinc	ND	mg/L		0.01		E200.8	04/12/11 02:07 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 21:12 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 21:12 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-001
Client Sample ID: BOW-4A

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/13/11 11:53 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/13/11 11:53 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/13/11 11:53 / eli-cs
Polonium 210	<1.1	pCi/L	U	1.1		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	1.1	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/25/11 14:18 / dmf
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/25/11 14:18 / dmf
Radium 226 MDC	0.2	pCi/L				E903.0	04/25/11 14:18 / dmf
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	05/19/11 15:03 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	05/19/11 15:03 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	05/19/11 15:03 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 08:57 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	05/05/11 08:57 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 08:57 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/26/11 01:24 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	04/26/11 01:24 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 01:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:36 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/09/11 14:36 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.48	%				Calculation	04/29/11 15:39 / kbh
Anions	5.30	meq/L				Calculation	04/29/11 15:39 / kbh
Cations	5.46	meq/L				Calculation	04/29/11 15:39 / kbh
Solids, Total Dissolved Calculated	409	mg/L				Calculation	04/29/11 15:39 / kbh
TDS Balance (0.80 - 1.20)	0.880					Calculation	04/29/11 15:39 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-002
Client Sample ID: BOW-7

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	190	mg/L		1		A2320 B	04/09/11 02:49 / jba
Carbonate as CO3	15	mg/L		1		A2320 B	04/09/11 02:49 / jba
Bicarbonate as HCO3	202	mg/L		1		A2320 B	04/09/11 02:49 / jba
Calcium	8	mg/L		1		E200.7	04/21/11 19:27 / cp
Chloride	23	mg/L		1		E300.0	04/13/11 05:04 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/13/11 09:29 / jba
Magnesium	ND	mg/L		1		E200.7	04/21/11 19:27 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/11/11 12:44 / dc
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	04/14/11 12:29 / dc
Potassium	11	mg/L		1		E200.7	04/21/11 19:27 / cp
Silica	80.9	mg/L		0.2		E200.7	04/21/11 19:27 / cp
Sodium	118	mg/L		1		E200.7	04/21/11 19:27 / cp
Sulfate	55	mg/L	D	2		E300.0	04/13/11 05:04 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	547	umhos/cm		1		A2510 B	04/08/11 17:06 / lr
pH	8.76	s.u.		0.01		A4500-H B	04/08/11 17:06 / lr
Solids, Total Dissolved TDS @ 180 C	376	mg/L		10		A2540 C	04/08/11 17:01 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/21/11 19:27 / cp
Arsenic	0.028	mg/L		0.001		E200.8	04/12/11 02:14 / sml
Barium	ND	mg/L		0.1		E200.8	04/12/11 02:14 / sml
Boron	0.2	mg/L		0.1		E200.7	04/21/11 19:27 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/12/11 02:14 / sml
Chromium	ND	mg/L		0.05		E200.8	04/12/11 02:14 / sml
Copper	ND	mg/L		0.01		E200.8	04/12/11 02:14 / sml
Iron	ND	mg/L		0.03		E200.7	04/21/11 19:27 / cp
Lead	ND	mg/L		0.001		E200.8	04/12/11 02:14 / sml
Manganese	ND	mg/L		0.01		E200.8	04/12/11 02:14 / sml
Mercury	ND	mg/L		0.001		E200.8	04/12/11 02:14 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/11 02:14 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/11 02:14 / sml
Selenium	0.210	mg/L		0.001		E200.8	04/12/11 02:14 / sml
Uranium	0.0059	mg/L		0.0003		E200.8	04/12/11 02:14 / sml
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	04/12/11 02:14 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/12/11 02:14 / sml
Zinc	ND	mg/L		0.01		E200.8	04/12/11 02:14 / sml
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	04/13/11 21:16 / sml
Uranium, Activity	3.7E-10	uCi/mL		2.0E-10		E200.8	04/13/11 21:16 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-002
Client Sample ID: BOW-7

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/13/11 14:05 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/13/11 14:05 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/13/11 14:05 / eli-cs
Polonium 210	<1.1	pCi/L	U	1.1		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	1.1	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	04/25/11 15:52 / dmf
Radium 226 precision (±)	0.06	pCi/L				E903.0	04/25/11 15:52 / dmf
Radium 226 MDC	0.1	pCi/L				E903.0	04/25/11 15:52 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	05/19/11 17:14 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	05/19/11 17:14 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	05/19/11 17:14 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/23/11 14:03 / ep
Polonium 210 precision (±)	0.02	pCi/L				E912.0	05/23/11 14:03 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/23/11 14:03 / ep
Radium 226	0.6	pCi/L		0.1		E903.0	04/26/11 01:24 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	04/26/11 01:24 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 01:24 / trs
Thorium 230	0.2	pCi/L		0.1		E908.0	05/09/11 14:37 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.35	%				Calculation	04/29/11 15:39 / kbh
Anions	5.72	meq/L				Calculation	04/29/11 15:39 / kbh
Cations	5.88	meq/L				Calculation	04/29/11 15:39 / kbh
Solids, Total Dissolved Calculated	439	mg/L				Calculation	04/29/11 15:39 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	04/29/11 15:39 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-003
Client Sample ID: BOW-8

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	182	mg/L		1		A2320 B	04/09/11 02:58 / jba
Carbonate as CO ₃	12	mg/L		1		A2320 B	04/09/11 02:58 / jba
Bicarbonate as HCO ₃	198	mg/L		1		A2320 B	04/09/11 02:58 / jba
Calcium	11	mg/L		1		E200.7	04/21/11 19:31 / cp
Chloride	7	mg/L		1		E300.0	04/13/11 05:51 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/13/11 09:32 / jba
Magnesium	ND	mg/L		1		E200.7	04/21/11 19:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/11/11 12:46 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	04/14/11 12:31 / dc
Potassium	10	mg/L		1		E200.7	04/21/11 19:31 / cp
Silica	81.4	mg/L		0.2		E200.7	04/21/11 19:31 / cp
Sodium	83	mg/L		1		E200.7	04/21/11 19:31 / cp
Sulfate	27	mg/L		1		E300.0	04/13/11 05:51 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	407	umhos/cm		1		A2510 B	04/08/11 17:08 / lr
pH	8.65	s.u.		0.01		A4500-H B	04/08/11 17:08 / lr
Solids, Total Dissolved TDS @ 180 C	306	mg/L		10		A2540 C	04/08/11 17:02 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	04/21/11 19:31 / cp
Arsenic	0.006	mg/L		0.001		E200.8	04/12/11 02:21 / sml
Barium	ND	mg/L		0.1		E200.8	04/12/11 02:21 / sml
Boron	ND	mg/L		0.1		E200.7	04/21/11 19:31 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/12/11 02:21 / sml
Chromium	ND	mg/L		0.05		E200.8	04/12/11 02:21 / sml
Copper	ND	mg/L		0.01		E200.8	04/12/11 02:21 / sml
Iron	ND	mg/L		0.03		E200.7	04/21/11 19:31 / cp
Lead	ND	mg/L		0.001		E200.8	04/12/11 02:21 / sml
Manganese	ND	mg/L		0.01		E200.8	04/12/11 02:21 / sml
Mercury	ND	mg/L		0.001		E200.8	04/12/11 02:21 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/12/11 02:21 / sml
Nickel	ND	mg/L		0.05		E200.8	04/12/11 02:21 / sml
Selenium	ND	mg/L		0.001		E200.8	04/12/11 02:21 / sml
Uranium	0.0075	mg/L		0.0003		E200.8	04/12/11 02:21 / sml
Uranium, Activity	5.0E-09	uCi/mL		2.0E-10		E200.8	04/12/11 02:21 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/12/11 02:21 / sml
Zinc	ND	mg/L		0.01		E200.8	04/12/11 02:21 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/13/11 21:20 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/13/11 21:20 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040296-003
Client Sample ID: BOW-8

Report Date: 05/31/11
Collection Date: 04/05/11
Date Received: 04/08/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/13/11 16:16 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/13/11 16:16 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/13/11 16:16 / eli-cs
Polonium 210	<1.1	pCi/L	U	1.1		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	1.1	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	04/25/11 15:52 / dmf
Radium 226 precision (±)	0.08	pCi/L				E903.0	04/25/11 15:52 / dmf
Radium 226 MDC	0.2	pCi/L				E903.0	04/25/11 15:52 / dmf
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/02/11 09:12 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/02/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/02/11 09:12 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	05/19/11 19:26 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	05/19/11 19:26 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	05/19/11 19:26 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	04/26/11 01:24 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	04/26/11 01:24 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	04/26/11 01:24 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:36 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/09/11 14:36 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.681	%				Calculation	04/29/11 15:40 / kbh
Anions	4.46	meq/L				Calculation	04/29/11 15:40 / kbh
Cations	4.52	meq/L				Calculation	04/29/11 15:40 / kbh
Solids, Total Dissolved Calculated	355	mg/L				Calculation	04/29/11 15:40 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	04/29/11 15:40 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144652
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110408B 04/08/11 17:09
Alkalinity, Total as CaCO3		2	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		3	mg/L		1					
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110408B 04/08/11 17:25
Alkalinity, Total as CaCO3		214	mg/L	5.0	106	90	110			
Sample ID: C11040294-001AMS		Sample Matrix Spike								Run: MANTECH_110408B 04/09/11 00:59
Alkalinity, Total as CaCO3		217	mg/L	5.0	98	80	120			
Sample ID: C11040294-012ADUP		Sample Duplicate								Run: MANTECH_110408B 04/09/11 02:32
Alkalinity, Total as CaCO3		87.1	mg/L	5.0				0.3	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110408B		
Sample ID: ICV2_110408_2	Initial Calibration Verification Standard									
Conductivity @ 25 C		1390	umhos/cm	1.0	98	90	110			04/08/11 15:34
Method: A2510 B								Batch: 110408_2_PH-W_555A-2		
Sample ID: MBLK1_110408_2	Method Blank									
Conductivity @ 25 C		0.7	umhos/cm	0.2				Run: ORION555A-2_110408B		04/08/11 15:30
Sample ID: C11040297-001BDUP	Sample Duplicate									
Conductivity @ 25 C		863	umhos/cm	1.0				Run: ORION555A-2_110408B	0.2	10 04/08/11 17:11

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110408_2_SLDS-TDS-W		
Sample ID: MBLK1_110408		Method Blank					Run: BAL-1_110408B			04/08/11 16:52
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110408		Laboratory Control Sample					Run: BAL-1_110408B			04/08/11 16:53
Solids, Total Dissolved TDS @ 180 C		989	mg/L	10	99	90	110			
Sample ID: C11040296-002ADUP		Sample Duplicate					Run: BAL-1_110408B			04/08/11 17:02
Solids, Total Dissolved TDS @ 180 C		382	mg/L	10				1.6	10	
Sample ID: C11040297-001AMS		Sample Matrix Spike					Run: BAL-1_110408B			04/08/11 17:02
Solids, Total Dissolved TDS @ 180 C		2520	mg/L	10	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-F C										Batch: R144774	
Sample ID: MBLK		Method Blank								Run: MANTECH_110413A	04/13/11 08:54
Fluoride		0.02	mg/L	0.008							
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110413A	04/13/11 09:01
Fluoride		0.980	mg/L	0.10	96	90	110				
Sample ID: C11040297-001BMS		Sample Matrix Spike								Run: MANTECH_110413A	04/13/11 09:42
Fluoride		1.65	mg/L	0.10	98	80	120				
Sample ID: C11040297-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110413A	04/13/11 09:45
Fluoride		1.68	mg/L	0.10	101	80	120	1.8	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110408B		
Sample ID: ICV1_110408_2		Initial Calibration Verification Standard						04/08/11 15:31		
pH		6.92	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110408_2_PH-W_555A-2		
Sample ID: C11040297-001BDUP		Sample Duplicate				Run: ORION555A-2_110408B		04/08/11 17:11		
pH		8.21	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/31/11

Project: Marsland Baseline Samples

Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R144668
Sample ID: MBLK-13		Method Blank								Run: TECHNICON_110411A 04/11/11 11:14
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-14		Laboratory Control Sample								Run: TECHNICON_110411A 04/11/11 11:16
Nitrogen, Ammonia as N		1.95	mg/L	0.050	98	90	110			
Sample ID: C11040297-001EMS		Sample Matrix Spike								Run: TECHNICON_110411A 04/11/11 12:50
Nitrogen, Ammonia as N		1.76	mg/L	0.050	88	80	120			
Sample ID: C11040297-001EMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110411A 04/11/11 12:52
Nitrogen, Ammonia as N		1.79	mg/L	0.050	90	80	120	1.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/31/11

Project: Marsland Baseline Samples

Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R145060										
Sample ID: MB-110421A	8	Method Blank					Run: ICP2-C_110421A			04/21/11 12:28
Aluminum		ND	mg/L	0.01						
Boron		0.04	mg/L	0.01						
Calcium		ND	mg/L	0.1						
Iron		ND	mg/L	0.001						
Magnesium		ND	mg/L	0.05						
Potassium		ND	mg/L	0.05						
Silicon		ND	mg/L	0.007						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-110421A	8	Laboratory Fortified Blank					Run: ICP2-C_110421A			04/21/11 12:32
Aluminum		0.906	mg/L	0.10	91	85	115			
Boron		0.945	mg/L	0.10	91	85	115			
Calcium		46.2	mg/L	0.50	92	85	115			
Iron		0.941	mg/L	0.030	94	85	115			
Magnesium		45.2	mg/L	0.50	90	85	115			
Potassium		46.5	mg/L	0.50	93	85	115			
Silicon		0.447	mg/L	0.10	95	85	115			
Sodium		48.7	mg/L	0.50	97	85	115			
Sample ID: C11040312-003CMS2	8	Sample Matrix Spike					Run: ICP2-C_110421A			04/21/11 19:43
Aluminum		9.01	mg/L	0.10	88	70	130			
Boron		9.96	mg/L	0.31	93	70	130			
Calcium		1130	mg/L	1.4	89	70	130			
Iron		9.68	mg/L	0.078	95	70	130			
Magnesium		1200	mg/L	1.0	90	70	130			
Potassium		444	mg/L	1.0	84	70	130			
Silicon		13.4	mg/L	0.15	99	70	130			
Sodium		788	mg/L	2.3	94	70	130			
Sample ID: C11040312-003CMSD	8	Sample Matrix Spike Duplicate					Run: ICP2-C_110421A			04/21/11 19:47
Aluminum		9.09	mg/L	0.10	89	70	130	0.9	20	
Boron		10.2	mg/L	0.31	96	70	130	2.7	20	
Calcium		1130	mg/L	1.4	88	70	130	0.4	20	
Iron		9.72	mg/L	0.078	95	70	130	0.4	20	
Magnesium		1190	mg/L	1.0	88	70	130	0.7	20	
Potassium		444	mg/L	1.0	84	70	130	0.1	20	
Silicon		13.5	mg/L	0.15	101	70	130	0.5	20	
Sodium		796	mg/L	2.3	96	70	130	1.0	20	

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 05/31/11

Project: Marsland Baseline Samples

Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144696
Sample ID: LRB	14	Method Blank					Run: ICPMS2-C_110411A			04/11/11 12:14
Arsenic		ND	mg/L	6E-05						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		6E-05	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Lead		ND	mg/L	3E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	8E-05						
Molybdenum		ND	mg/L	5E-05						
Nickel		ND	mg/L	0.0007						
Selenium		ND	mg/L	0.0002						
Uranium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		ND	mg/L	0.0003						
Sample ID: LFB	14	Laboratory Fortified Blank					Run: ICPMS2-C_110411A			04/11/11 12:21
Arsenic		0.0521	mg/L	0.0010	104	85	115			
Barium		0.0525	mg/L	0.0010	105	85	115			
Cadmium		0.0514	mg/L	0.0010	103	85	115			
Chromium		0.0511	mg/L	0.0010	102	85	115			
Copper		0.0515	mg/L	0.0010	103	85	115			
Lead		0.0511	mg/L	0.0010	102	85	115			
Manganese		0.0514	mg/L	0.0010	103	85	115			
Mercury		0.00532	mg/L	0.0010	106	85	115			
Molybdenum		0.0518	mg/L	0.0010	104	85	115			
Nickel		0.0511	mg/L	0.0010	102	85	115			
Selenium		0.0529	mg/L	0.0010	106	85	115			
Uranium		0.0497	mg/L	0.00030	99	85	115			
Vanadium		0.0510	mg/L	0.0010	102	85	115			
Zinc		0.0521	mg/L	0.0010	104	85	115			
Sample ID: C11040297-001CMS4	14	Sample Matrix Spike					Run: ICPMS2-C_110411A			04/12/11 02:34
Arsenic		0.0807	mg/L	0.0010	101	70	130			
Barium		0.0560	mg/L	0.0010	103	70	130			
Cadmium		0.0490	mg/L	0.010	98	70	130			
Chromium		0.0481	mg/L	0.0010	95	70	130			
Copper		0.0524	mg/L	0.010	97	70	130			
Lead		0.0525	mg/L	0.050	105	70	130			
Manganese		0.0541	mg/L	0.010	97	70	130			
Mercury		0.00520	mg/L	0.0010	104	70	130			
Molybdenum		0.155	mg/L	0.10	117	70	130			
Nickel		0.0496	mg/L	0.0010	99	70	130			
Selenium		0.0483	mg/L	0.0010	96	70	130			
Uranium		0.963	mg/L	0.00030		70	130			A
Vanadium		0.112	mg/L	0.10	104	70	130			
Zinc		0.0524	mg/L	0.010	98	70	130			

Qualifiers:

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A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R144696		
Sample ID: C11040297-001CMSD				14 Sample Matrix Spike Duplicate		Run: ICPMS2-C_110411A			04/12/11 02:41	
Arsenic		0.0819	mg/L	0.0010	104	70	130	1.5	20	
Barium		0.0577	mg/L	0.0010	106	70	130	3.0	20	
Cadmium		0.0499	mg/L	0.010	100	70	130	1.8	20	
Chromium		0.0483	mg/L	0.0010	96	70	130	0.5	20	
Copper		0.0519	mg/L	0.010	96	70	130	1.0	20	
Lead		0.0532	mg/L	0.050	106	70	130	1.2	20	
Manganese		0.0546	mg/L	0.010	98	70	130	0.9	20	
Mercury		0.00532	mg/L	0.0010	106	70	130	2.3	20	
Molybdenum		0.154	mg/L	0.10	115	70	130	0.8	20	
Nickel		0.0491	mg/L	0.0010	98	70	130	0.9	20	
Selenium		0.0501	mg/L	0.0010	99	70	130	3.6	20	
Uranium		0.957	mg/L	0.00030		70	130	0.6	20	A
Vanadium		0.111	mg/L	0.10	102	70	130	1.0	20	
Zinc		0.0523	mg/L	0.010	97	70	130	0.2	20	
Method: E200.8								Batch: 29539A		
Sample ID: C11040296-003HMS		Sample Matrix Spike			Run: ICPMS4-C_110413A			04/13/11 21:24		
Uranium		0.00476	mg/L	0.00030	101	70	130			
Sample ID: C11040296-003HMSD		Sample Matrix Spike Duplicate			Run: ICPMS4-C_110413A			04/13/11 21:28		
Uranium		0.00506	mg/L	0.00030	108	70	130	6.2	20	
Sample ID: MB-29539		Method Blank			Run: ICPMS4-C_110413A			04/13/11 19:34		
Uranium		3E-05	pCi/Filter							
Sample ID: LCS2-29539		Laboratory Control Sample			Run: ICPMS4-C_110413A			04/13/11 19:38		
Uranium		0.104	pCi/Filter	0.00030	104	85	115			

Qualifiers:

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MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110412A		
Sample ID: ICV	2	Initial Calibration Verification Standard								04/12/11 14:25
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		41.0	mg/L	1.0	102	90	110			
Method: E300.0								Batch: R144811		
Sample ID: MBLK	2	Method Blank					Run: IC2-C_110412A			04/12/11 14:41
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: LFB	2	Laboratory Fortified Blank					Run: IC2-C_110412A			04/12/11 14:56
Chloride		12.4	mg/L	1.0	99	90	110			
Sulfate		50.6	mg/L	1.0	101	90	110			
Sample ID: C11040306-003AMS	2	Sample Matrix Spike					Run: IC2-C_110412A			04/13/11 07:08
Chloride		269	mg/L	4.0	103	80	120			
Sulfate		5490	mg/L	16		80	120			A
Sample ID: C11040306-003AMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110412A			04/13/11 07:23
Chloride		270	mg/L	4.0	103	80	120	0.1	10	
Sulfate		5390	mg/L	16		80	120	1.8	10	A

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144840
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_110414B 04/14/11 11:38
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.65	mg/L	0.10	106	90	110			Run: TECHNICON_110414B 04/14/11 11:41
Sample ID: C11040296-003GMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.87	mg/L	0.10	105	90	110			Run: TECHNICON_110414B 04/14/11 12:34
Sample ID: C11040296-003GMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.89	mg/L	0.10	106	90	110	0.7	10	Run: TECHNICON_110414B 04/14/11 12:36

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5294		
Sample ID: C11040296-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-1_110415A		04/25/11 14:18		
Radium 226		14	pCi/L	108		70	130			
Sample ID: C11040296-001DMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_110415A		04/25/11 15:52		
Radium 226		14	pCi/L	108		70	130	0.1	27	
Sample ID: MB-RA226-5294	3	Method Blank				Run: BERTHOLD 770-1_110415A		04/25/11 17:30		
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5294		Laboratory Control Sample				Run: BERTHOLD 770-1_110415A		04/25/11 17:30		
Radium 226		6.6	pCi/L	106		85	115			
Method: E903.0								Batch: R145159		
Sample ID: LCS-29538		Laboratory Control Sample				Run: TENNELEC-3_110419A		04/25/11 23:45		
Radium 226		12.2	pCi/Filter	101		70	130			
Sample ID: MB-29538	3	Method Blank				Run: TENNELEC-3_110419A		04/25/11 23:44		
Radium 226		0.03	pCi/Filter							U
Radium 226 precision (±)		0.1	pCi/Filter							
Radium 226 MDC		0.2	pCi/Filter							
Sample ID: C11040296-001HMS		Sample Matrix Spike				Run: TENNELEC-3_110419A		04/26/11 01:24		
Radium 226		10	pCi/L	101		70	130			
Sample ID: C11040296-001HMSD		Sample Matrix Spike Duplicate				Run: TENNELEC-3_110419A		04/26/11 01:24		
Radium 226		9.2	pCi/L	93		70	130	8.7	24.1	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1373		
Sample ID: LCS-RA-TH-ISO-1373	Laboratory Control Sample					Run: EGG-ORTEC_110428A			05/02/11 09:12	
Thorium 230		5.4	pCi/L		96	70	130			
Sample ID: C11040105-001DMS	Sample Matrix Spike					Run: EGG-ORTEC_110428A			05/02/11 09:11	
Thorium 230		12	pCi/L		102	70	130			
Sample ID: C11040105-001DMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110428A			05/02/11 09:11	
Thorium 230		12	pCi/L		101	70	130	0.4	37.2	
Sample ID: MB-RA-TH-ISO-1373	3	Method Blank				Run: EGG-ORTEC_110428A			05/02/11 13:54	
Thorium 230		-0.01	pCi/L							U
Thorium 230 precision (±)		0.06	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E908.0								Batch: R146350		
Sample ID: LCS-29539	Laboratory Control Sample					Run: EGG-ORTEC_110504A			05/09/11 14:36	
Thorium 230		11	pCi/L		108	70	130			
Sample ID: MB-29539	3	Method Blank				Run: EGG-ORTEC_110504A			05/09/11 14:36	
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.4	pCi/L							
Sample ID: C11040726-006HMS	Sample Matrix Spike					Run: EGG-ORTEC_110504A			05/09/11 14:37	
Thorium 230		9.9	pCi/L		116	70	130			
Sample ID: C11040726-006HMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110504A			05/09/11 14:36	
Thorium 230		8.4	pCi/L		97	70	130	16	48.1	

Qualifiers:

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MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0091		
Sample ID: T11040060-003GMSD	Sample Matrix Spike Duplicate					Run: SUB-T40353			05/12/11 13:59	
Lead 210		140	pCi/L	104		70	130	4.8	15.1	
Sample ID: MB-PB-210-0091	3	Method Blank				Run: SUB-T40353			05/12/11 05:13	
Lead 210		-0.9	pCi/L							U
Lead 210 precision (±)		1	pCi/L							
Lead 210 MDC		2	pCi/L							
Sample ID: LCS-PB-210-0091	Laboratory Control Sample					Run: SUB-T40353			05/12/11 07:25	
Lead 210		74	pCi/L	104		70	130			
Sample ID: T11040060-003GMS	Sample Matrix Spike					Run: SUB-T40353			05/12/11 11:47	
Lead 210		150	pCi/L	109		70	130			
Method: E909.0								Batch: T_13785		
Sample ID: T11040079-001AMSD	Sample Matrix Spike Duplicate					Run: SUB-T40467			05/18/11 12:44	
Lead 210		1.39	pCi/Filter	96		70	130	9.0	17.1	
Sample ID: MB-13785	3	Method Blank				Run: SUB-T40467			05/18/11 03:58	
Lead 210		-10	pCi/Filter							U
Lead 210 precision (±)		7	pCi/Filter							
Lead 210 MDC		10	pCi/Filter							
Sample ID: LCS-13785	Laboratory Control Sample					Run: SUB-T40467			05/18/11 06:10	
Lead 210		328	pCi/Filter	95		70	130			
Sample ID: T11040079-001AMS	Sample Matrix Spike					Run: SUB-T40467			05/18/11 10:33	
Lead 210		1.27	pCi/Filter	87		70	130			

Qualifiers:

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MDC - Minimum detectable concentration

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U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 05/31/11
Work Order: C11040296

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: R146175										
Sample ID: C11040296-001HMS		Sample Matrix Spike				Run: EGG-ORTEC_110503C				05/05/11 08:57
Polonium 210		5.3	pCi/L	100		70	130			
Sample ID: C11040296-001HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110503C				05/05/11 11:49
Polonium 210		5.7	pCi/L	108		70	130	7.9	67.5	
Sample ID: LCS-29539		Laboratory Control Sample				Run: EGG-ORTEC_110503C				05/05/11 11:49
Polonium 210		0.43	pCi/L			70	130			US
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: MB-29539	3	Method Blank				Run: EGG-ORTEC_110503C				05/05/11 11:49
Polonium 210		0.3	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: LCS-29662		Laboratory Control Sample				Run: EGG-ORTEC_110503C				05/05/11 11:49
Polonium 210		38	pCi/L	127		70	130			
Method: E912.0 Batch: PO210-0365										
Sample ID: C11040296-001EMS		Sample Matrix Spike				Run: EGG-ORTEC_110507A				05/09/11 09:07
Polonium 210		12	pCi/L	89		70	130			
Sample ID: C11040296-001EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110507A				05/09/11 09:07
Polonium 210		17	pCi/L	127		70	130	35	67.6	
Sample ID: MB-PO210-0365	3	Method Blank				Run: EGG-ORTEC_110507A				05/09/11 11:17
Polonium 210		ND	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.6	pCi/L							
Sample ID: LCS-PO210-0365		Laboratory Control Sample				Run: EGG-ORTEC_110507A				05/09/11 11:17
Polonium 210		6.4	pCi/L	101		70	130			
Method: E912.0 Batch: PO210-0371										
Sample ID: C11040296-002HMS		Sample Matrix Spike				Run: EGG-ORTEC_110516A				05/23/11 14:03
Polonium 210		4.8	pCi/L	89		70	130			
Sample ID: C11040296-002HMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_110516A				05/23/11 14:03
Polonium 210		5.1	pCi/L	96		70	130	7.2	66.9	
Sample ID: LCS-29539		Laboratory Control Sample				Run: EGG-ORTEC_110516A				05/19/11 09:04
Polonium 210		40	pCi/L	132		70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, other LCSs, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: MB-29539	3	Method Blank				Run: EGG-ORTEC_110516A				05/19/11 09:04
Polonium 210		0.5	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: LCS-29764		Laboratory Control Sample				Run: EGG-ORTEC_110516A				05/19/11 09:04
Polonium 210		2.8E-05	uCi/kg	88		70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11040296

Login completed by: Edith McPike

Date Received: 4/8/2011

Reviewed by: BL2000\hackerman

Received by: ha

Reviewed Date: 4/11/2011

Carrier Ground name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 6.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

=====
Contact and Corrective Action Comments:

Samples to filtered and preserved in the lab for dissolved radionuclides.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.		Project Name: Marsland Baseline Samples		Sample Origin State: 		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 169 Crawford, NE 69339		Contact Name: Larry Teahon		Phone/Fax: 308-665-2341		Sampler: (Please Print) Brooke Bass Rhonda Pelton	
Invoice Address: P.O. Box 169 Crawford, NE 69339		Invoice Contact & Phone: Larry Teahon 308-665-2215 ext. 114		Purchase Order: 1125		Quote/Bottle Order: 	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTWW/WTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and $\mu\text{Ci/ml}$ and radiometrics as pCi/L. Please report 5/10/11 Please report 5/10/11 Please report 5/10/11	
Number of Containers Air Water: _____ Soils/Solids: _____ Vegetation: _____ Bioassay: _____ Other: _____		MATRIX HNO ₃ -F, Metals RAW-F, Common Ions RAW-UF, Alkalinity H ₂ SO ₄ -F, NO ₂ , NO ₃ , NH ₄ Raw-UF, Ra226, Po210 dis, sus Raw-UF, Pb210 dis and sus Raw-UF, Th230, U-nat dis and sus		LABORATORY USE ONLY Shipped by: <u>WDEQ</u> Cooler ID(s): <u>Client</u> Receipt Temp: <u>68</u> °C On Ice: <u>(Yes)</u> No Custody Seal Intact: <u>Y</u> N Signature Match: <u>Y</u> N		Shipped by: <u>WDEQ</u> Cooler ID(s): <u>Client</u> Receipt Temp: <u>68</u> °C On Ice: <u>(Yes)</u> No Custody Seal Intact: <u>Y</u> N Signature Match: <u>Y</u> N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	Received by (print): <u>Rhonda Pelton</u>	Date/Time: <u>4-6-11 10:30 AM</u>	Received by (print): <u>WPS</u>	Date/Time: <u>4-8-11 9:30</u>
1 BOW-4A	Water	4/5/11					
2 BOW-7	Water	4/5/11					
3 BOW-8	Water	4/5/11					
4							
5							
6							
7							
8							
9							
10							
Custody Record MUST be Signed		Relinquished by (print): <u>Rhonda Pelton</u>	Relinquished by (print): <u>Rhonda Pelton</u>	Signature: <u>Rhonda Pelton</u>	Date/Time: <u>4-6-11 10:30 AM</u>	Signature: <u>WPS</u>	Date/Time: <u>4-8-11 9:30</u>
Sample Disposal: Return to Client: No		Lab Disposal: YES		Received by Laboratory: <u>WPS</u>		Received by Laboratory: <u>WPS</u>	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.eneroviab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 4/5/11

ANALYST: _____

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.10			
Abs	0	.031	.170	.343			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 PR 8	10 ml	1	-.001	< 0.01
2 BCW 4-A	10 ml	1	.057	0.02
3 BOW 7	10 ml	1	.028	0.01
4 BCW 8	10 ml	1	.001	< 0.01
5				
Dup BCW 4-A	10 ml	1	.059	0.02
6 BOW 8 Dup	10 ml	1	.000	< 0.01
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

June 10, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040326 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 5 samples for Crow Butte Resources on 4/11/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040326-001	Well #705	04/06/11 00:00	04/11/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11040326-002	Well #788	04/06/11 00:00	04/11/11	Aqueous	Same As Above
C11040326-003	BOW-1	04/06/11 00:00	04/11/11	Aqueous	Same As Above
C11040326-004	Well #727	04/06/11 00:00	04/11/11	Aqueous	Same As Above
C11040326-005	CPW-2010-1	04/06/11 00:00	04/11/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040326

Report Date: 06/10/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

PREP COMMENTS

The prep hold time for the Filtration of metals was exceeded by up to 4.34 days.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-001
Client Sample ID: Well #705

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		1		A2320 B	04/13/11 15:47 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/13/11 15:47 / jba
Bicarbonate as HCO3	184	mg/L		1		A2320 B	04/13/11 15:47 / jba
Calcium	35	mg/L		1		E200.7	04/22/11 13:57 / cp
Chloride	3	mg/L		1		E300.0	04/13/11 15:21 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/13/11 09:55 / jba
Magnesium	8	mg/L		1		E200.7	04/22/11 13:57 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/13/11 12:46 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	04/14/11 14:24 / dc
Potassium	4	mg/L		1		E200.7	04/22/11 13:57 / cp
Silica	74.6	mg/L		0.2		E200.7	04/22/11 13:57 / cp
Sodium	19	mg/L		1		E200.7	04/22/11 13:57 / cp
Sulfate	9	mg/L		1		E300.0	04/13/11 15:21 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	306	umhos/cm		1		A2510 B	04/12/11 13:06 / lr
pH	7.74	s.u.		0.01		A4500-H B	04/12/11 13:06 / lr
Solids, Total Dissolved TDS @ 180 C	227	mg/L		10		A2540 C	04/12/11 13:43 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/13/11 16:55 / sml
Arsenic	0.004	mg/L		0.001		E200.8	04/13/11 16:55 / sml
Barium	0.1	mg/L		0.1		E200.8	04/13/11 16:55 / sml
Boron	ND	mg/L		0.1		E200.7	04/22/11 13:57 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/13/11 16:55 / sml
Chromium	ND	mg/L		0.05		E200.8	04/13/11 16:55 / sml
Copper	ND	mg/L		0.01		E200.8	04/13/11 16:55 / sml
Iron	0.04	mg/L		0.03		E200.7	04/22/11 13:57 / cp
Lead	ND	mg/L		0.001		E200.8	04/13/11 16:55 / sml
Manganese	ND	mg/L		0.01		E200.8	04/13/11 16:55 / sml
Mercury	ND	mg/L		0.001		E200.8	04/13/11 16:55 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/13/11 16:55 / sml
Nickel	ND	mg/L		0.05		E200.8	04/13/11 16:55 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/13/11 16:55 / sml
Uranium	0.0071	mg/L		0.0003		E200.8	04/13/11 16:55 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	04/13/11 16:55 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/13/11 16:55 / sml
Zinc	0.06	mg/L		0.01		E200.8	04/13/11 16:55 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 13:46 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 13:46 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-001
Client Sample ID: Well #705

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.3	pCi/L	U	1.3		E909.0	05/16/11 04:37 / eli-cs
Lead 210 precision (±)	0.8	pCi/L				E909.0	05/16/11 04:37 / eli-cs
Lead 210 MDC	1.3	pCi/L				E909.0	05/16/11 04:37 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 08:41 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/10/11 08:41 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 08:41 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	05/22/11 15:42 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	05/22/11 15:42 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/22/11 15:42 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.777	%				Calculation	05/02/11 08:35 / kbh
Anions	3.40	meq/L				Calculation	05/02/11 08:35 / kbh
Cations	3.35	meq/L				Calculation	05/02/11 08:35 / kbh
Solids, Total Dissolved Calculated	270	mg/L				Calculation	05/02/11 08:35 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	05/02/11 08:35 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-002
Client Sample ID: Well #788

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	151	mg/L		1		A2320 B	04/13/11 16:11 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/13/11 16:11 / jba
Bicarbonate as HCO3	184	mg/L		1		A2320 B	04/13/11 16:11 / jba
Calcium	33	mg/L		1		E200.7	04/22/11 14:09 / cp
Chloride	3	mg/L		1		E300.0	04/13/11 15:36 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	04/13/11 10:08 / jba
Magnesium	9	mg/L		1		E200.7	04/22/11 14:09 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/13/11 12:48 / dc
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	04/14/11 14:26 / dc
Potassium	4	mg/L		1		E200.7	04/22/11 14:09 / cp
Silica	72.1	mg/L		0.2		E200.7	04/22/11 14:09 / cp
Sodium	20	mg/L		1		E200.7	04/22/11 14:09 / cp
Sulfate	7	mg/L		1		E300.0	04/13/11 15:36 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	309	umhos/cm		1		A2510 B	04/12/11 13:08 / lr
pH	7.86	s.u.		0.01		A4500-H B	04/12/11 13:08 / lr
Solids, Total Dissolved TDS @ 180 C	221	mg/L		10		A2540 C	04/12/11 13:43 / lmc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	04/14/11 02:51 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/14/11 02:51 / sml
Barium	0.1	mg/L		0.1		E200.8	04/14/11 02:51 / sml
Boron	0.1	mg/L		0.1		E200.7	04/22/11 14:09 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/14/11 02:51 / sml
Chromium	ND	mg/L		0.05		E200.8	04/14/11 02:51 / sml
Copper	ND	mg/L		0.01		E200.8	04/14/11 02:51 / sml
Iron	ND	mg/L		0.03		E200.7	04/22/11 14:09 / cp
Lead	ND	mg/L		0.001		E200.8	04/14/11 02:51 / sml
Manganese	ND	mg/L		0.01		E200.8	04/14/11 02:51 / sml
Mercury	ND	mg/L		0.001		E200.8	04/14/11 02:51 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/14/11 02:51 / sml
Nickel	ND	mg/L		0.05		E200.8	04/14/11 02:51 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/14/11 02:51 / sml
Uranium	0.0073	mg/L		0.0003		E200.8	04/14/11 02:51 / sml
Uranium, Activity	4.9E-09	uCi/mL		2.0E-10		E200.8	04/14/11 02:51 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/14/11 02:51 / sml
Zinc	0.07	mg/L		0.01		E200.8	04/14/11 02:51 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	04/21/11 13:50 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 13:50 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-002
Client Sample ID: Well #788

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/16/11 11:11 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/16/11 11:11 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/16/11 11:11 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 08:41 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/10/11 08:41 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 08:41 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/22/11 22:17 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/22/11 22:17 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/22/11 22:17 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.03	%				Calculation	05/02/11 08:35 / kbh
Anions	3.42	meq/L				Calculation	05/02/11 08:35 / kbh
Cations	3.35	meq/L				Calculation	05/02/11 08:35 / kbh
Solids, Total Dissolved Calculated	268	mg/L				Calculation	05/02/11 08:35 / kbh
TDS Balance (0.80 - 1.20)	0.820					Calculation	05/02/11 08:35 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-003
Client Sample ID: BOW-1

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	212	mg/L		1		A2320 B	04/11/11 17:42 / jba
Carbonate as CO3	104	mg/L		1		A2320 B	04/11/11 17:42 / jba
Bicarbonate as HCO3	48	mg/L		1		A2320 B	04/11/11 17:42 / jba
Calcium	5	mg/L		1		E200.7	04/22/11 14:17 / cp
Chloride	63	mg/L		1		E300.0	04/13/11 15:52 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/13/11 10:10 / jba
Magnesium	ND	mg/L		1		E200.7	04/22/11 14:17 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/13/11 12:50 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	04/14/11 14:29 / dc
Potassium	12	mg/L		1		E200.7	04/22/11 14:17 / cp
Silica	110	mg/L		0.2		E200.7	04/22/11 14:17 / cp
Sodium	145	mg/L		1		E200.7	04/22/11 14:17 / cp
Sulfate	62	mg/L	D	2		E300.0	04/13/11 15:52 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	763	umhos/cm		1		A2510 B	04/11/11 14:49 / lr
pH	10.0	s.u.		0.01		A4500-H B	04/11/11 14:49 / lr
Solids, Total Dissolved TDS @ 180 C	537	mg/L		10		A2540 C	04/12/11 13:43 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/14/11 02:58 / sml
Arsenic	0.014	mg/L		0.001		E200.8	04/14/11 02:58 / sml
Barium	ND	mg/L		0.1		E200.8	04/14/11 02:58 / sml
Boron	ND	mg/L		0.1		E200.7	04/22/11 14:17 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/14/11 02:58 / sml
Chromium	ND	mg/L		0.05		E200.8	04/14/11 02:58 / sml
Copper	ND	mg/L		0.01		E200.8	04/14/11 02:58 / sml
Iron	ND	mg/L		0.03		E200.7	04/22/11 14:17 / cp
Lead	ND	mg/L		0.001		E200.8	04/14/11 02:58 / sml
Manganese	ND	mg/L		0.01		E200.8	04/14/11 02:58 / sml
Mercury	ND	mg/L		0.001		E200.8	04/14/11 02:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/14/11 02:58 / sml
Nickel	ND	mg/L		0.05		E200.8	04/14/11 02:58 / sml
Selenium	0.016	mg/L		0.001		E200.8	04/14/11 02:58 / sml
Uranium	0.0020	mg/L		0.0003		E200.8	04/14/11 02:58 / sml
Uranium, Activity	1.3E-09	uCi/mL		2.0E-10		E200.8	04/14/11 02:58 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/14/11 02:58 / sml
Zinc	0.08	mg/L		0.01		E200.8	04/14/11 02:58 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 13:54 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 13:54 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-003
Client Sample ID: BOW-1

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/16/11 13:23 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/16/11 13:23 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/16/11 13:23 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/10/11 08:41 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/10/11 08:41 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 08:41 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	05/23/11 00:28 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/23/11 00:28 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/23/11 00:28 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	0.3	pCi/L		0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.96	%				Calculation	05/02/11 08:36 / kbh
Anions	7.44	meq/L				Calculation	05/02/11 08:36 / kbh
Cations	6.87	meq/L				Calculation	05/02/11 08:36 / kbh
Solids, Total Dissolved Calculated	560	mg/L				Calculation	05/02/11 08:36 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	05/02/11 08:36 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-004
Client Sample ID: Well #727

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	160	mg/L		1		A2320 B	04/11/11 17:50 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/11/11 17:50 / jba
Bicarbonate as HCO3	195	mg/L		1		A2320 B	04/11/11 17:50 / jba
Calcium	31	mg/L		1		E200.7	04/22/11 14:22 / cp
Chloride	5	mg/L		1		E300.0	04/13/11 21:16 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/13/11 10:15 / jba
Magnesium	13	mg/L		1		E200.7	04/22/11 14:22 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/13/11 12:58 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	04/14/11 14:31 / dc
Potassium	4	mg/L		1		E200.7	04/22/11 14:22 / cp
Silica	81.8	mg/L		0.2		E200.7	04/22/11 14:22 / cp
Sodium	19	mg/L		1		E200.7	04/22/11 14:22 / cp
Sulfate	9	mg/L		1		E300.0	04/13/11 21:16 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	322	umhos/cm		1		A2510 B	04/11/11 14:53 / lr
pH	7.94	s.u.		0.01		A4500-H B	04/11/11 14:53 / lr
Solids, Total Dissolved TDS @ 180 C	247	mg/L		10		A2540 C	04/12/11 13:44 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/14/11 03:05 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/14/11 03:05 / sml
Barium	ND	mg/L		0.1		E200.8	04/14/11 03:05 / sml
Boron	ND	mg/L		0.1		E200.7	04/22/11 14:22 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/14/11 03:05 / sml
Chromium	ND	mg/L		0.05		E200.8	04/14/11 03:05 / sml
Copper	ND	mg/L		0.01		E200.8	04/14/11 03:05 / sml
Iron	ND	mg/L		0.03		E200.7	04/22/11 14:22 / cp
Lead	ND	mg/L		0.001		E200.8	04/14/11 03:05 / sml
Manganese	ND	mg/L		0.01		E200.8	04/14/11 03:05 / sml
Mercury	ND	mg/L		0.001		E200.8	04/14/11 03:05 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/14/11 03:05 / sml
Nickel	ND	mg/L		0.05		E200.8	04/14/11 03:05 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/14/11 03:05 / sml
Uranium	0.0107	mg/L		0.0003		E200.8	04/14/11 03:05 / sml
Uranium, Activity	7.2E-09	uCi/mL		2.0E-10		E200.8	04/14/11 03:05 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/14/11 03:05 / sml
Zinc	0.26	mg/L		0.01		E200.8	04/14/11 03:05 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 13:58 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 13:58 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-004
Client Sample ID: Well #727

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	05/16/11 15:34 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	05/16/11 15:34 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	05/16/11 15:34 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.8	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/23/11 02:39 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/23/11 02:39 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/23/11 02:39 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.17	%				Calculation	05/02/11 08:36 / kbh
Anions	3.64	meq/L				Calculation	05/02/11 08:36 / kbh
Cations	3.55	meq/L				Calculation	05/02/11 08:36 / kbh
Solids, Total Dissolved Calculated	287	mg/L				Calculation	05/02/11 08:36 / kbh
TDS Balance (0.80 - 1.20)	0.860					Calculation	05/02/11 08:36 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-005
Client Sample ID: CPW-2010-1

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	368	mg/L		1		A2320 B	04/11/11 17:58 / jba
Carbonate as CO3	12	mg/L		1		A2320 B	04/11/11 17:58 / jba
Bicarbonate as HCO3	424	mg/L		1		A2320 B	04/11/11 17:58 / jba
Calcium	5	mg/L		1		E200.7	04/22/11 14:26 / cp
Chloride	180	mg/L		1		E300.0	04/13/11 21:31 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/13/11 10:24 / jba
Magnesium	1	mg/L		1		E200.7	04/22/11 14:26 / cp
Nitrogen, Ammonia as N	0.26	mg/L		0.05		A4500-NH3 G	04/13/11 13:00 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/14/11 14:41 / dc
Potassium	11	mg/L		1		E200.7	04/22/11 14:26 / cp
Silica	16.4	mg/L		0.2		E200.7	04/22/11 14:26 / cp
Sodium	336	mg/L		1		E200.7	04/22/11 14:26 / cp
Sulfate	94	mg/L	D	4		E300.0	04/13/11 21:31 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1420	umhos/cm		1		A2510 B	04/11/11 14:55 / lr
pH	8.40	s.u.		0.01		A4500-H B	04/11/11 14:55 / lr
Solids, Total Dissolved TDS @ 180 C	853	mg/L		10		A2540 C	04/12/11 13:44 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/14/11 03:11 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/14/11 03:11 / sml
Barium	ND	mg/L		0.1		E200.8	04/14/11 03:11 / sml
Boron	1.4	mg/L		0.1		E200.7	04/22/11 14:26 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/14/11 03:11 / sml
Chromium	ND	mg/L		0.05		E200.8	04/14/11 03:11 / sml
Copper	ND	mg/L		0.01		E200.8	04/14/11 03:11 / sml
Iron	ND	mg/L		0.03		E200.7	04/22/11 14:26 / cp
Lead	ND	mg/L		0.001		E200.8	04/14/11 03:11 / sml
Manganese	ND	mg/L		0.01		E200.8	04/14/11 03:11 / sml
Mercury	ND	mg/L		0.001		E200.8	04/14/11 03:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/14/11 03:11 / sml
Nickel	ND	mg/L		0.05		E200.8	04/14/11 03:11 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/14/11 03:11 / sml
Uranium	0.0114	mg/L		0.0003		E200.8	04/14/11 03:11 / sml
Uranium, Activity	7.7E-09	uCi/mL		2.0E-10		E200.8	04/14/11 03:11 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/14/11 03:11 / sml
Zinc	ND	mg/L		0.01		E200.8	04/14/11 03:11 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 14:02 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 14:02 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040326-005
Client Sample ID: CPW-2010-1

Report Date: 06/10/11
Collection Date: 04/06/11
Date Received: 04/11/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	9.0	pCi/L		0.6		E909.0	05/16/11 17:46 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/16/11 17:46 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	05/16/11 17:46 / eli-cs
Polonium 210	1.7	pCi/L		0.7		E912.0	05/09/11 09:06 / ep
Polonium 210 precision (±)	0.9	pCi/L				E912.0	05/09/11 09:06 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	05/09/11 09:06 / ep
Radium 226	29	pCi/L		0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	1	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 08:42 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	4.0	pCi/L		0.8		E909.0	05/23/11 04:51 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	05/23/11 04:51 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/23/11 04:51 / eli-cs
Polonium 210	0.9	pCi/L		0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.86	%				Calculation	05/02/11 08:36 / kbh
Anions	14.4	meq/L				Calculation	05/02/11 08:36 / kbh
Cations	15.3	meq/L				Calculation	05/02/11 08:36 / kbh
Solids, Total Dissolved Calculated	870	mg/L				Calculation	05/02/11 08:36 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	05/02/11 08:36 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										
Batch: R144692										
Sample ID: MBLK	3	Method Blank								
Run: MANTECH_110411A										
04/11/11 15:25										
Alkalinity, Total as CaCO3		1.44	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		1.76	mg/L	1.0						
Sample ID: LCS										
Laboratory Control Sample										
Run: MANTECH_110411A										
04/11/11 15:41										
Alkalinity, Total as CaCO3		211	mg/L	5.0	105	90	110			
Sample ID: C11040326-005BDUP										
Sample Duplicate										
Run: MANTECH_110411A										
04/11/11 18:06										
Alkalinity, Total as CaCO3		367	mg/L	5.0				0.3	10	
Sample ID: C11040326-005BMS										
Sample Matrix Spike										
Run: MANTECH_110411A										
04/11/11 18:16										
Alkalinity, Total as CaCO3		502	mg/L	5.0	107	80	120			
Method: A2320 B										
Batch: R144789										
Sample ID: MBLK	3	Method Blank								
Run: MANTECH_110413B										
04/13/11 15:23										
Alkalinity, Total as CaCO3		ND	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		ND	mg/L	1.0						
Sample ID: LCS										
Laboratory Control Sample										
Run: MANTECH_110413B										
04/13/11 15:39										
Alkalinity, Total as CaCO3		207	mg/L	5.0	104	90	110			
Sample ID: C11040326-001BDUP										
Sample Duplicate										
Run: MANTECH_110413B										
04/13/11 15:55										
Alkalinity, Total as CaCO3		151	mg/L	5.0				0.5	10	
Sample ID: C11040326-001BMS										
Sample Matrix Spike										
Run: MANTECH_110413B										
04/13/11 16:03										
Alkalinity, Total as CaCO3		282	mg/L	5.0	105	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110411A		
Sample ID: ICV2_110411_1		Initial Calibration Verification Standard								04/11/11 14:18
Conductivity @ 25 C		1400	umhos/cm	1.0	99	90	110			
Method: A2510 B								Batch: 110411_1_PH-W_555A-2		
Sample ID: MBLK1_110411_1		Method Blank								04/11/11 14:15
Conductivity @ 25 C		ND	umhos/cm	1.0						
Sample ID: C11040326-003BDUP		Sample Duplicate								04/11/11 14:51
Conductivity @ 25 C		759	umhos/cm	1.0				0.5	10	
Method: A2510 B								Analytical Run: ORION555A-2_110412A		
Sample ID: ICV2_110412_1		Initial Calibration Verification Standard								04/12/11 13:03
Conductivity @ 25 C		1380	umhos/cm	1.0	97	90	110			
Method: A2510 B								Batch: 110412_1_PH-W_555A-2		
Sample ID: MBLK1_110412_1		Method Blank								04/12/11 12:59
Conductivity @ 25 C		ND	umhos/cm	1.0						
Sample ID: C11040355-002ADUP		Sample Duplicate								04/12/11 13:23
Conductivity @ 25 C		2960	umhos/cm	1.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110412_1_SLDS-TDS-W		
Sample ID: MBLK1_110412		Method Blank					Run: BAL-1_110412B			04/12/11 13:40
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_110412		Laboratory Control Sample					Run: BAL-1_110412B			04/12/11 13:40
Solids, Total Dissolved TDS @ 180 C		999	mg/L	10	99	90	110			
Sample ID: C11040326-003ADUP		Sample Duplicate					Run: BAL-1_110412B			04/12/11 13:44
Solids, Total Dissolved TDS @ 180 C		533	mg/L	10				0.7	10	
Sample ID: C11040343-003AMS		Sample Matrix Spike					Run: BAL-1_110412B			04/12/11 13:46
Solids, Total Dissolved TDS @ 180 C		2390	mg/L	10	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144774
Sample ID: MBLK		Method Blank								Run: MANTECH_110413A
Fluoride		ND	mg/L	0.10						04/13/11 08:54
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110413A
Fluoride		0.980	mg/L	0.10	96	90	110			04/13/11 09:01
Sample ID: C11040326-004BMS		Sample Matrix Spike								Run: MANTECH_110413A
Fluoride		1.47	mg/L	0.10	100	80	120			04/13/11 10:18
Sample ID: C11040326-004BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110413A
Fluoride		1.47	mg/L	0.10	100	80	120	0.0	10	04/13/11 10:21

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110411A		
Sample ID: ICV1_110411_1	Initial Calibration Verification Standard									
pH		6.94	s.u.	0.010	101	98	102			04/11/11 14:16
Method: A4500-H B								Batch: 110411_1_PH-W_555A-2		
Sample ID: C11040326-003BDUP	Sample Duplicate									
pH		10.0	s.u.	0.010				0.0	3	Run: ORION555A-2_110411A 04/11/11 14:51
Method: A4500-H B								Analytical Run: ORION555A-2_110412A		
Sample ID: ICV1_110412_1	Initial Calibration Verification Standard									
pH		6.93	s.u.	0.010	101	98	102			04/12/11 13:01
Method: A4500-H B								Batch: 110412_1_PH-W_555A-2		
Sample ID: C11040355-002ADUP	Sample Duplicate									
pH		8.60	s.u.	0.010				0.1	3	Run: ORION555A-2_110412A 04/12/11 13:23

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R144780
Sample ID: MBLK-5 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.050						Run: TECHNICON_110413A 04/13/11 12:38
Sample ID: LCS-6 Nitrogen, Ammonia as N		Laboratory Control Sample 2.01	mg/L	0.050	99	90	110			Run: TECHNICON_110413A 04/13/11 12:40
Sample ID: C11040326-003GMS Nitrogen, Ammonia as N		Sample Matrix Spike 1.84	mg/L	0.050	92	80	120			Run: TECHNICON_110413A 04/13/11 12:52
Sample ID: C11040326-003GMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.86	mg/L	0.050	93	80	120	1.1	10	Run: TECHNICON_110413A 04/13/11 12:54

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Marsland Baseline Samples

Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R145096
Sample ID: MB-110422A	7	Method Blank					Run: ICP2-C_110422A			04/22/11 12:52
Boron		ND	mg/L	0.10						
Calcium		ND	mg/L	1.0						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Silicon		ND	mg/L	0.10						
Sodium		ND	mg/L	1.0						
Sample ID: LFB-110422A	7	Laboratory Fortified Blank					Run: ICP2-C_110422A			04/22/11 12:56
Boron		0.886	mg/L	0.10	89	85	115			
Calcium		45.8	mg/L	0.50	92	85	115			
Iron		0.916	mg/L	0.030	92	85	115			
Magnesium		46.3	mg/L	0.50	93	85	115			
Potassium		46.0	mg/L	3.3	92	85	115			
Silicon		0.455	mg/L	0.10	91	85	115			
Sodium		44.4	mg/L	0.50	89	85	115			
Sample ID: C11040326-001CMS2	7	Sample Matrix Spike					Run: ICP2-C_110422A			04/22/11 14:01
Boron		1.94	mg/L	0.10	92	70	130			
Calcium		126	mg/L	1.0	89	70	130			
Iron		1.92	mg/L	0.030	92	70	130			
Magnesium		101	mg/L	1.0	91	70	130			
Potassium		86.8	mg/L	1.0	81	70	130			
Silicon		34.2	mg/L	0.10		70	130			A
Sodium		115	mg/L	1.0	94	70	130			
Sample ID: C11040326-001CMSD	7	Sample Matrix Spike Duplicate					Run: ICP2-C_110422A			04/22/11 14:05
Boron		1.97	mg/L	0.10	93	70	130	1.2	20	
Calcium		124	mg/L	1.0	88	70	130	1.6	20	
Iron		1.90	mg/L	0.030	91	70	130	1.0	20	
Magnesium		98.3	mg/L	1.0	88	70	130	2.9	20	
Potassium		85.3	mg/L	1.0	79	70	130	1.7	20	
Silicon		34.3	mg/L	0.10		70	130	0.2	20	A
Sodium		114	mg/L	1.0	93	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Marsland Baseline Samples

Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144792
Sample ID: LRB	15	Method Blank								Run: ICPMS2-C_110413A 04/13/11 11:57
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Lead		ND	mg/L	0.0010						
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Selenium		ND	mg/L	0.0010						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB	15	Laboratory Fortified Blank								Run: ICPMS2-C_110413A 04/13/11 12:03
Aluminum		0.0509	mg/L	0.0010	102	85	115			
Arsenic		0.0522	mg/L	0.0010	104	85	115			
Barium		0.0523	mg/L	0.0010	105	85	115			
Cadmium		0.0523	mg/L	0.0010	105	85	115			
Chromium		0.0523	mg/L	0.0010	104	85	115			
Copper		0.0524	mg/L	0.0010	105	85	115			
Lead		0.0520	mg/L	0.0010	104	85	115			
Manganese		0.0518	mg/L	0.0010	104	85	115			
Mercury		0.00521	mg/L	0.0010	104	85	115			
Molybdenum		0.0523	mg/L	0.0010	105	85	115			
Nickel		0.0519	mg/L	0.0010	104	85	115			
Selenium		0.0525	mg/L	0.0010	105	85	115			
Uranium		0.0520	mg/L	0.00030	104	85	115			
Vanadium		0.0523	mg/L	0.0010	104	85	115			
Zinc		0.0558	mg/L	0.0010	112	85	115			
Sample ID: C11040326-001CMS4	15	Sample Matrix Spike								Run: ICPMS2-C_110413A 04/13/11 17:02
Aluminum		0.0477	mg/L	0.0010	95	70	130			
Arsenic		0.0545	mg/L	0.0010	102	70	130			
Barium		0.181	mg/L	0.10	104	70	130			
Cadmium		0.0516	mg/L	0.010	103	70	130			
Chromium		0.0514	mg/L	0.050	101	70	130			
Copper		0.0476	mg/L	0.010	95	70	130			
Lead		0.0510	mg/L	0.050	102	70	130			
Manganese		0.0559	mg/L	0.010	103	70	130			
Mercury		0.00520	mg/L	0.0010	104	70	130			
Molybdenum		0.0484	mg/L	0.0010	95	70	130			
Nickel		0.0479	mg/L	0.0010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Marsland Baseline Samples

Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: R144792										
Sample ID: C11040326-001CMS4 15 Sample Matrix Spike Run: ICPMS2-C_110413A 04/13/11 17:02										
Selenium		0.0587	mg/L	0.0010	115	70	130			
Uranium		0.0606	mg/L	0.00030	107	70	130			
Vanadium		0.0600	mg/L	0.0010	101	70	130			
Zinc		0.110	mg/L	0.010	106	70	130			
Sample ID: C11040326-001CMSD 15 Sample Matrix Spike Duplicate Run: ICPMS2-C_110413A 04/13/11 17:08										
Aluminum		0.0462	mg/L	0.0010	92	70	130	3.2	20	
Arsenic		0.0538	mg/L	0.0010	100	70	130	1.2	20	
Barium		0.179	mg/L	0.10	101	70	130	0.8	20	
Cadmium		0.0510	mg/L	0.010	102	70	130	1.1	20	
Chromium		0.0502	mg/L	0.050	99	70	130	2.3	20	
Copper		0.0471	mg/L	0.010	94	70	130	1.1	20	
Lead		0.0502	mg/L	0.050	100	70	130	1.5	20	
Manganese		0.0547	mg/L	0.010	101	70	130	2.2	20	
Mercury		0.00515	mg/L	0.0010	103	70	130	0.9	20	
Molybdenum		0.0481	mg/L	0.0010	94	70	130	0.6	20	
Nickel		0.0473	mg/L	0.0010	95	70	130	1.3	20	
Selenium		0.0575	mg/L	0.0010	113	70	130	2.1	20	
Uranium		0.0600	mg/L	0.00030	106	70	130	1.0	20	
Vanadium		0.0592	mg/L	0.0010	99	70	130	1.4	20	
Zinc		0.105	mg/L	0.010	97	70	130	4.3	20	
Method: E200.8 Batch: 29614										
Sample ID: MB-29614 Method Blank Run: ICPMS4-C_110421A 04/21/11 13:09										
Uranium		ND	mg/L	0.00030						
Sample ID: LCS2-29614 Laboratory Control Sample Run: ICPMS4-C_110421A 04/21/11 13:17										
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: C11040476-010HMS Sample Matrix Spike Run: ICPMS4-C_110421A 04/21/11 15:53										
Uranium		0.0556	mg/L	0.00030	111	70	130			
Sample ID: C11040476-010HMSD Sample Matrix Spike Duplicate Run: ICPMS4-C_110421A 04/21/11 15:57										
Uranium		0.0556	mg/L	0.00030	111	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110412A		
Sample ID: ICV	2	Initial Calibration Verification Standard								04/12/11 14:25
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		41.0	mg/L	1.0	102	90	110			
Method: E300.0								Batch: R144811		
Sample ID: MBLK	2	Method Blank								04/12/11 14:41
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	1.0						
Sample ID: LFB	2	Laboratory Fortified Blank								04/12/11 14:56
Chloride		12.4	mg/L	1.0	99	90	110			
Sulfate		50.6	mg/L	1.0	101	90	110			
Sample ID: C11040330-003AMS	2	Sample Matrix Spike								04/13/11 22:33
Chloride		34.4	mg/L	1.0	103	80	120			
Sulfate		90.1	mg/L	1.6	103	80	120			
Sample ID: C11040330-003AMSD	2	Sample Matrix Spike Duplicate								04/13/11 22:48
Chloride		34.4	mg/L	1.0	103	80	120	0.1	10	
Sulfate		90.5	mg/L	1.6	103	80	120	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144840
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110414B 04/14/11 11:38
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110414B 04/14/11 11:41
Nitrogen, Nitrate+Nitrite as N		2.65	mg/L	0.10	106	90	110			
Sample ID: C11040326-004GMS		Sample Matrix Spike								Run: TECHNICON_110414B 04/14/11 14:34
Nitrogen, Nitrate+Nitrite as N		3.35	mg/L	0.10	106	90	110			
Sample ID: C11040326-004GMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110414B 04/14/11 14:36
Nitrogen, Nitrate+Nitrite as N		3.36	mg/L	0.10	106	90	110	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5305		
Sample ID: C11040476-001DMS		Sample Matrix Spike								Run: BERTHOLD 770-1_110422A 05/02/11 12:53
Radium 226		23	pCi/L		99	70	130			
Sample ID: C11040476-001DMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-1_110422A 05/02/11 12:53
Radium 226		22	pCi/L		97	70	130	1.7	20.7	
Sample ID: C11040601-001EDUP	3	Sample Duplicate								Run: BERTHOLD 770-1_110422A 05/02/11 14:28
Radium 226		24	pCi/L					4.8	17.1	
Radium 226 precision (±)		0.86	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: MB-RA226-5305	3	Method Blank								Run: BERTHOLD 770-1_110422A 05/02/11 14:28
Radium 226		ND	pCi/L	0.10						U
Radium 226 precision (±)		0.050	pCi/L							
Radium 226 MDC		0.12	pCi/L							
Sample ID: LCS-RA226-5305		Laboratory Control Sample								Run: BERTHOLD 770-1_110422A 05/02/11 14:28
Radium 226		6.0	pCi/L		97	85	115			
Method: E903.0								Batch: 29614		
Sample ID: C11040326-005HMS		Sample Matrix Spike								Run: BERTHOLD 770-2_110422A 05/02/11 21:53
Radium 226		12	pCi/L		109	70	130			
Sample ID: C11040326-005HMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-2_110422A 05/02/11 21:53
Radium 226		12	pCi/L		113	70	130	0.8	24.5	
Sample ID: LCS-29614		Laboratory Control Sample								Run: BERTHOLD 770-2_110422A 05/03/11 02:01
Radium 226		13	pCi/L		111	85	115			
Sample ID: MB-29614	3	Method Blank								Run: BERTHOLD 770-2_110422A 05/03/11 02:01
Radium 226		ND	pCi/L	0.10						U
Radium 226 precision (±)		0.096	pCi/L							
Radium 226 MDC		0.24	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Marsland Baseline Samples

Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										
Batch: R145601										
Sample ID: C11040476-010HMS		Sample Matrix Spike								
Thorium 230		9.0	pCi/L		102	70	130			05/05/11 14:45
										Run: EGG-ORTEC_110502A
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								
Thorium 230		10	pCi/L		114	70	130	12	47.8	05/05/11 14:45
										Run: EGG-ORTEC_110502A
Sample ID: LCS-29614		Laboratory Control Sample								
Thorium 230		11	pCi/L		119	70	130			05/05/11 14:45
										Run: EGG-ORTEC_110502A
Sample ID: MB-29614	3	Method Blank								
Thorium 230		ND	pCi/L	0.10						05/05/11 14:45
Thorium 230 precision (±)		0.17	pCi/L							U
Thorium 230 MDC		0.28	pCi/L							
Method: E908.0										
Batch: RA-TH-ISO-1381										
Sample ID: LCS-RA-TH-ISO-1381		Laboratory Control Sample								
Thorium 230		5.6	pCi/L		100	70	130			05/09/11 14:40
										Run: EGG-ORTEC_110505A
Sample ID: C11040476-009DMS		Sample Matrix Spike								
Thorium 230		12	pCi/L		97	70	130			05/10/11 13:01
										Run: EGG-ORTEC_110505A
Sample ID: C11040476-009DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L		87	70	130	8.1	37.6	05/10/11 13:01
										Run: EGG-ORTEC_110505A
Sample ID: MB-RA-TH-ISO-1381	3	Method Blank								
Thorium 230		ND	pCi/L	0.10						05/10/11 13:01
Thorium 230 precision (±)		0.087	pCi/L							U
Thorium 230 MDC		0.19	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/10/11

Project: Marsland Baseline Samples

Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0092		
Sample ID: C11040326-001FMSD	Sample Matrix Spike Duplicate					Run: SUB-T40386		05/16/11 09:00		
Lead 210		90	pCi/L		84	70	130	9.5	15.6	
Sample ID: MB-PB-210-0092	3	Method Blank				Run: SUB-T40386		05/14/11 15:22		
Lead 210		ND	pCi/L	0.60						U
Lead 210 precision (±)		1.00	pCi/L							
Lead 210 MDC		1.7	pCi/L							
Sample ID: LCS-PB-210-0092	Laboratory Control Sample					Run: SUB-T40386		05/14/11 17:33		
Lead 210		67	pCi/L		94	70	130			
Sample ID: C11040326-001FMS	Sample Matrix Spike					Run: SUB-T40386		05/16/11 06:48		
Lead 210		99	pCi/L		92	70	130			
Method: E909.0								Batch: T_13823		
Sample ID: C11040326-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-T40682		05/22/11 20:05		
Lead 210		81	pCi/L		86	70	130	6.3	16	
Sample ID: MB-13823	3	Method Blank				Run: SUB-T40682		05/22/11 11:19		
Lead 210		1.3	pCi/L	0.60						U
Lead 210 precision (±)		5.6	pCi/L							
Lead 210 MDC		9.4	pCi/L							
Sample ID: LCS-13823	Laboratory Control Sample					Run: SUB-T40682		05/22/11 13:31		
Lead 210		260	pCi/L		73	70	130			
Sample ID: C11040326-001HMS	Sample Matrix Spike					Run: SUB-T40682		05/22/11 17:54		
Lead 210		86	pCi/L		93	70	130			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/10/11
Work Order: C11040326

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: 29614
Sample ID: C11040476-010HMS		Sample Matrix Spike								Run: EGG-ORTEC_110503D 05/06/11 08:47
Polonium 210		6.3	pCi/L		117	70	130			
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								Run: EGG-ORTEC_110503D 05/06/11 08:47
Polonium 210		5.6	pCi/L		103	70	130	13	62.3	
Sample ID: LCS-29614		Laboratory Control Sample								Run: EGG-ORTEC_110503D 05/06/11 08:47
Polonium 210		28	pCi/L		91	70	130			
Sample ID: MB-29614	3	Method Blank								Run: EGG-ORTEC_110503D 05/06/11 11:02
Polonium 210		0.23	pCi/L	0.20						U
Polonium 210 precision (±)		1.4	pCi/L							
Polonium 210 MDC		3.0	pCi/L							
Method: E912.0										Batch: PO210-0365
Sample ID: C11040296-001EMS		Sample Matrix Spike								Run: EGG-ORTEC_110507A 05/09/11 09:07
Polonium 210		12	pCi/L		89	70	130			
Sample ID: C11040296-001EMSD		Sample Matrix Spike Duplicate								Run: EGG-ORTEC_110507A 05/09/11 09:07
Polonium 210		17	pCi/L		127	70	130	35	67.6	
Sample ID: MB-PO210-0365	3	Method Blank								Run: EGG-ORTEC_110507A 05/09/11 11:17
Polonium 210		ND	pCi/L	0.20						U
Polonium 210 precision (±)		0.23	pCi/L							
Polonium 210 MDC		0.58	pCi/L							
Sample ID: LCS-PO210-0365		Laboratory Control Sample								Run: EGG-ORTEC_110507A 05/09/11 11:17
Polonium 210		6.4	pCi/L		101	70	130			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11040326

Login completed by: Edith McPike
Reviewed by: BL2000\cwagner
Reviewed Date: 4/13/2011

Date Received: 4/11/2011

Received by: em

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 9.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂

DATE: 4/6/11

ANALYST: _____

STANDARD CURVE DATA

NO ₂	BL	0.01	0.05	0.1			
Abs	0	.036	.172	.343			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ mg/L
1 705	10 ml	1	.003	<0.01
2 727	10 ml	1	.001	<0.01
3 788	10 ml	1	-.000	<0.01
4 CPW 2010-1	10 ml	1	.006	<0.01
5 BOW-1	10 ml	1	.079	0.02
Dup				
6 705 Dup	10 ml	1	.002	<0.01
7 788 Dup	10 ml	1	.001	<0.01
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

June 13, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040476 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 10 samples for Crow Butte Resources on 4/14/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040476-001	Monitor 1	04/11/11 00:00	04/14/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11040476-002	Monitor 2	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-003	Monitor 4A	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-004	Monitor 5	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-005	Monitor 6	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-006	Monitor 7	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-007	Monitor 8	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-008	Monitor 9	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-009	Monitor 10	04/11/11 00:00	04/14/11	Aqueous	Same As Above
C11040476-010	Monitor 11	04/11/11 00:00	04/14/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040476

Report Date: 06/13/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

PREP COMMENTS

The prep hold time for the Filtration of metals was exceeded by up to 2.29 days.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-001
Client Sample ID: Monitor 1

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	405	mg/L		1		A2320 B	04/15/11 15:33 / jba
Carbonate as CO ₃	8	mg/L		1		A2320 B	04/15/11 15:33 / jba
Bicarbonate as HCO ₃	478	mg/L		1		A2320 B	04/15/11 15:33 / jba
Calcium	5	mg/L		1		E200.7	04/25/11 16:07 / cp
Chloride	182	mg/L		1		E300.0	04/20/11 02:19 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/18/11 09:14 / jba
Magnesium	1	mg/L		1		E200.7	04/25/11 16:07 / cp
Nitrogen, Ammonia as N	0.18	mg/L		0.05		A4500-NH ₃ G	04/21/11 16:30 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/15/11 16:24 / dc
Potassium	8	mg/L		1		E200.7	04/25/11 16:07 / cp
Silica	12.9	mg/L		0.2		E200.8	04/16/11 14:30 / sml
Sodium	340	mg/L		1		E200.7	04/25/11 16:07 / cp
Sulfate	59	mg/L	D	4		E300.0	04/20/11 02:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1400	umhos/cm		1		A2510 B	04/15/11 11:31 / lr
pH	8.28	s.u.		0.01		A4500-H B	04/15/11 11:31 / lr
Solids, Total Dissolved TDS @ 180 C	837	mg/L		10		A2540 C	04/15/11 16:31 / lr
METALS - DISSOLVED							
Aluminum	0.2	mg/L		0.1		E200.8	04/16/11 14:30 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/16/11 14:30 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 14:30 / sml
Boron	1.3	mg/L		0.1		E200.7	04/25/11 16:07 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 14:30 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 14:30 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 14:30 / sml
Iron	0.10	mg/L		0.03		E200.8	04/16/11 14:30 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 14:30 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 14:30 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 14:30 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 14:30 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 14:30 / sml
Selenium	0.002	mg/L	D	0.002		E200.8	04/16/11 14:30 / sml
Uranium	0.0077	mg/L		0.0003		E200.8	04/16/11 14:30 / sml
Uranium, Activity	5.2E-09	uCi/mL		2.0E-10		E200.8	04/16/11 14:30 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 14:30 / sml
Zinc	0.03	mg/L		0.01		E200.8	04/16/11 14:30 / sml
METALS - SUSPENDED							
Uranium	0.0148	mg/L		0.0003		E200.8	04/21/11 14:55 / sml
Uranium, Activity	1.0E-08	uCi/mL		2.0E-10		E200.8	04/21/11 14:55 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-001
Client Sample ID: Monitor 1

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	92	pCi/L		0.8		E909.0	06/01/11 03:41 / eli-cs
Lead 210 precision (±)	1.3	pCi/L				E909.0	06/01/11 03:41 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 03:41 / eli-cs
Polonium 210	9.8	pCi/L		0.9		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	3.3	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	9.4	pCi/L		0.1		E903.0	05/31/11 17:25 / trs
Radium 226 precision (±)	0.6	pCi/L				E903.0	05/31/11 17:25 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/31/11 17:25 / trs
Thorium 230	0.3	pCi/L		0.1		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	61	pCi/L		0.8		E909.0	05/23/11 15:48 / eli-cs
Lead 210 precision (±)	1.1	pCi/L				E909.0	05/23/11 15:48 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/23/11 15:48 / eli-cs
Polonium 210	12	pCi/L		0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	2.7	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	13	pCi/L		0.1		E903.0	05/31/11 17:25 / trs
Radium 226 precision (±)	0.7	pCi/L				E903.0	05/31/11 17:25 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/31/11 17:25 / trs
Thorium 230	4.5	pCi/L		0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.8	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.92	%				Calculation	05/02/11 09:14 / kbh
Anions	14.5	meq/L				Calculation	05/02/11 09:14 / kbh
Cations	15.3	meq/L				Calculation	05/02/11 09:14 / kbh
Solids, Total Dissolved Calculated	854	mg/L				Calculation	05/02/11 09:14 / kbh
TDS Balance (0.80 - 1.20)	0.980					Calculation	05/02/11 09:14 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-002
Client Sample ID: Monitor 2

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	402	mg/L		1		A2320 B	04/15/11 15:59 / jba
Carbonate as CO ₃	9	mg/L		1		A2320 B	04/15/11 15:59 / jba
Bicarbonate as HCO ₃	472	mg/L		1		A2320 B	04/15/11 15:59 / jba
Calcium	5	mg/L		1		E200.7	04/25/11 16:11 / cp
Chloride	173	mg/L		1		E300.0	04/20/11 02:34 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/18/11 09:21 / jba
Magnesium	1	mg/L		1		E200.7	04/25/11 16:11 / cp
Nitrogen, Ammonia as N	0.18	mg/L		0.05		A4500-NH ₃ G	04/21/11 16:32 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/15/11 16:26 / dc
Potassium	9	mg/L		1		E200.7	04/25/11 16:11 / cp
Silica	14.6	mg/L		0.2		E200.8	04/16/11 14:37 / sml
Sodium	328	mg/L		1		E200.7	04/25/11 16:11 / cp
Sulfate	55	mg/L	D	4		E300.0	04/20/11 02:34 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1350	umhos/cm		1		A2510 B	04/15/11 11:33 / lr
pH	8.26	s.u.		0.01		A4500-H B	04/15/11 11:33 / lr
Solids, Total Dissolved TDS @ 180 C	802	mg/L		10		A2540 C	04/15/11 16:31 / lr
METALS - DISSOLVED							
Aluminum	0.2	mg/L		0.1		E200.8	04/16/11 14:37 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/16/11 14:37 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 14:37 / sml
Boron	1.4	mg/L		0.1		E200.7	04/25/11 16:11 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 14:37 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 14:37 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 14:37 / sml
Iron	0.09	mg/L		0.03		E200.8	04/16/11 14:37 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 14:37 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 14:37 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 14:37 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 14:37 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 14:37 / sml
Selenium	0.003	mg/L	D	0.002		E200.8	04/16/11 14:37 / sml
Uranium	0.0025	mg/L		0.0003		E200.8	04/16/11 14:37 / sml
Uranium, Activity	1.7E-09	uCi/mL		2.0E-10		E200.8	04/16/11 14:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 14:37 / sml
Zinc	ND	mg/L		0.01		E200.8	04/16/11 14:37 / sml
METALS - SUSPENDED							
Uranium	0.0010	mg/L		0.0003		E200.8	04/21/11 14:59 / sml
Uranium, Activity	6.7E-10	uCi/mL		2.0E-10		E200.8	04/21/11 14:59 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-002
Client Sample ID: Monitor 2

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 05:52 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 05:52 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 05:52 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.8	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	0.7	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	0.9	pCi/L		0.8		E909.0	05/23/11 18:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/23/11 18:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/23/11 18:00 / eli-cs
Polonium 210	0.4	pCi/L		0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	0.8	pCi/L		0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	0.3	pCi/L		0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.57	%				Calculation	05/02/11 09:15 / kbh
Anions	14.1	meq/L				Calculation	05/02/11 09:15 / kbh
Cations	14.8	meq/L				Calculation	05/02/11 09:15 / kbh
Solids, Total Dissolved Calculated	831	mg/L				Calculation	05/02/11 09:15 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	05/02/11 09:15 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-003
Client Sample ID: Monitor 4A

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	360	mg/L		1		A2320 B	04/15/11 16:08 / jba
Carbonate as CO ₃	26	mg/L		1		A2320 B	04/15/11 16:08 / jba
Bicarbonate as HCO ₃	386	mg/L		1		A2320 B	04/15/11 16:08 / jba
Calcium	3	mg/L		1		E200.7	04/25/11 16:27 / cp
Chloride	238	mg/L		1		E300.0	04/20/11 02:49 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 09:29 / jba
Magnesium	ND	mg/L		1		E200.7	04/25/11 16:27 / cp
Nitrogen, Ammonia as N	0.22	mg/L		0.05		A4500-NH ₃ G	04/21/11 16:40 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/15/11 16:29 / dc
Potassium	16	mg/L		1		E200.7	04/25/11 16:27 / cp
Silica	14.4	mg/L		0.2		E200.8	04/16/11 15:11 / sml
Sodium	380	mg/L		1		E200.7	04/25/11 16:27 / cp
Sulfate	112	mg/L	D	4		E300.0	04/20/11 02:49 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1620	umhos/cm		1		A2510 B	04/15/11 11:35 / lr
pH	8.96	s.u.		0.01		A4500-H B	04/15/11 11:35 / lr
Solids, Total Dissolved TDS @ 180 C	946	mg/L		10		A2540 C	04/15/11 16:32 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 15:11 / sml
Arsenic	0.004	mg/L		0.001		E200.8	04/16/11 15:11 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 15:11 / sml
Boron	1.3	mg/L		0.1		E200.7	04/25/11 16:27 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 15:11 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 15:11 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 15:11 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 15:11 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 15:11 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 15:11 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 15:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 15:11 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 15:11 / sml
Selenium	0.004	mg/L	D	0.002		E200.8	04/16/11 15:11 / sml
Uranium	0.0677	mg/L		0.0003		E200.8	04/16/11 15:11 / sml
Uranium, Activity	4.6E-08	uCi/mL		2.0E-10		E200.8	04/16/11 15:11 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 15:11 / sml
Zinc	0.02	mg/L		0.01		E200.7	04/25/11 16:27 / cp
METALS - SUSPENDED							
Uranium	0.0013	mg/L		0.0003		E200.8	04/21/11 15:04 / sml
Uranium, Activity	8.7E-10	uCi/mL		2.0E-10		E200.8	04/21/11 15:04 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-003
Client Sample ID: Monitor 4A

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	698	pCi/L		0.8		E909.0	06/01/11 08:04 / eli-cs
Lead 210 precision (±)	3.3	pCi/L				E909.0	06/01/11 08:04 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 08:04 / eli-cs
Polonium 210	139	pCi/L		0.5		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	28	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	227	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	2.7	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:01 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/10/11 13:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	34	pCi/L		0.9		E909.0	05/23/11 20:11 / eli-cs
Lead 210 precision (±)	0.9	pCi/L				E909.0	05/23/11 20:11 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/23/11 20:11 / eli-cs
Polonium 210	10	pCi/L		0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	2.2	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	0.7	pCi/L		0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	0.4	pCi/L		0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.73	%				Calculation	05/02/11 09:15 / kbh
Anions	16.3	meq/L				Calculation	05/02/11 09:15 / kbh
Cations	17.2	meq/L				Calculation	05/02/11 09:15 / kbh
Solids, Total Dissolved Calculated	985	mg/L				Calculation	05/02/11 09:15 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	05/02/11 09:15 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-004
Client Sample ID: Monitor 5

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	297	mg/L		1		A2320 B	04/15/11 16:18 / jba
Carbonate as CO ₃	99	mg/L		1		A2320 B	04/15/11 16:18 / jba
Bicarbonate as HCO ₃	161	mg/L		1		A2320 B	04/15/11 16:18 / jba
Calcium	5	mg/L		1		E200.7	04/25/11 16:31 / cp
Chloride	321	mg/L	D	2		E300.0	04/22/11 02:00 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 09:32 / jba
Magnesium	1	mg/L		1		E200.7	04/25/11 16:31 / cp
Nitrogen, Ammonia as N	0.43	mg/L		0.05		A4500-NH ₃ G	04/21/11 16:42 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:32 / dc
Potassium	36	mg/L		1		E200.7	04/25/11 16:31 / cp
Silica	21.9	mg/L		0.2		E200.8	04/16/11 15:18 / sml
Sodium	505	mg/L		1		E200.7	04/25/11 16:31 / cp
Sulfate	312	mg/L	D	4		E300.0	04/20/11 03:36 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2230	umhos/cm		1		A2510 B	04/15/11 11:36 / lr
pH	9.88	s.u.		0.01		A4500-H B	04/15/11 11:36 / lr
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		10		A2540 C	04/15/11 16:32 / lr
METALS - DISSOLVED							
Aluminum	0.3	mg/L		0.1		E200.8	04/16/11 15:18 / sml
Arsenic	0.001	mg/L		0.001		E200.8	04/16/11 15:18 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 15:18 / sml
Boron	1.2	mg/L		0.1		E200.7	04/25/11 16:31 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 15:18 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 15:18 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 15:18 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 15:18 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 15:18 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 15:18 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 15:18 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 15:18 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 15:18 / sml
Selenium	0.005	mg/L	D	0.002		E200.8	04/16/11 15:18 / sml
Uranium	0.0009	mg/L		0.0003		E200.8	04/16/11 15:18 / sml
Uranium, Activity	6.4E-10	uCi/mL		2.0E-10		E200.8	04/16/11 15:18 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 15:18 / sml
Zinc	0.01	mg/L		0.01		E200.7	04/25/11 16:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:24 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-004
Client Sample ID: Monitor 5

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 10:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 10:15 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 10:15 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	2.0	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:00 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/10/11 13:00 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	05/23/11 22:23 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/23/11 22:23 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/23/11 22:23 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.78	%				Calculation	05/02/11 09:15 / kbh
Anions	21.5	meq/L				Calculation	05/02/11 09:15 / kbh
Cations	23.2	meq/L				Calculation	05/02/11 09:15 / kbh
Solids, Total Dissolved Calculated	1390	mg/L				Calculation	05/02/11 09:15 / kbh
TDS Balance (0.80 - 1.20)	0.940					Calculation	05/02/11 09:15 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-005
Client Sample ID: Monitor 6

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	361	mg/L		1		A2320 B	04/15/11 16:27 / jba
Carbonate as CO3	53	mg/L		1		A2320 B	04/15/11 16:27 / jba
Bicarbonate as HCO3	332	mg/L		1		A2320 B	04/15/11 16:27 / jba
Calcium	7	mg/L		1		E200.7	04/25/11 16:35 / cp
Chloride	386	mg/L	D	4		E300.0	04/22/11 02:47 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 09:35 / jba
Magnesium	ND	mg/L		1		E200.7	04/25/11 16:35 / cp
Nitrogen, Ammonia as N	0.30	mg/L		0.05		A4500-NH3 G	04/21/11 16:44 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:34 / dc
Potassium	23	mg/L		1		E200.7	04/25/11 16:35 / cp
Silica	15.1	mg/L		0.2		E200.8	04/16/11 15:25 / sml
Sodium	455	mg/L		1		E200.7	04/25/11 16:35 / cp
Sulfate	59	mg/L	D	4		E300.0	04/20/11 03:51 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2000	umhos/cm		1		A2510 B	04/15/11 11:46 / lr
pH	9.17	s.u.		0.01		A4500-H B	04/15/11 11:46 / lr
Solids, Total Dissolved TDS @ 180 C	1140	mg/L		10		A2540 C	04/15/11 16:32 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 15:25 / sml
Arsenic	0.001	mg/L		0.001		E200.8	04/16/11 15:25 / sml
Barium	0.1	mg/L		0.1		E200.8	04/16/11 15:25 / sml
Boron	1.3	mg/L		0.1		E200.7	04/25/11 16:35 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 15:25 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 15:25 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 15:25 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 15:25 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 15:25 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 15:25 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 15:25 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 15:25 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 15:25 / sml
Selenium	0.004	mg/L	D	0.002		E200.8	04/16/11 15:25 / sml
Uranium	0.0017	mg/L		0.0003		E200.8	04/16/11 15:25 / sml
Uranium, Activity	1.2E-09	uCi/mL		2.0E-10		E200.8	04/16/11 15:25 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 15:25 / sml
Zinc	0.02	mg/L		0.01		E200.7	04/25/11 16:35 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:28 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:28 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-005
Client Sample ID: Monitor 6

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.7	pCi/L		0.8		E909.0	06/01/11 12:27 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 12:27 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 12:27 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	2.3	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.3	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/10/11 13:00 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/10/11 13:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 13:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/24/11 00:34 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 00:34 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/24/11 00:34 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.60	%				Calculation	05/02/11 09:15 / kbh
Anions	19.4	meq/L				Calculation	05/02/11 09:15 / kbh
Cations	20.8	meq/L				Calculation	05/02/11 09:15 / kbh
Solids, Total Dissolved Calculated	1170	mg/L				Calculation	05/02/11 09:15 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	05/02/11 09:15 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-006
Client Sample ID: Monitor 7

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	273	mg/L		1		A2320 B	04/15/11 16:35 / jba
Carbonate as CO3	31	mg/L		1		A2320 B	04/15/11 16:35 / jba
Bicarbonate as HCO3	270	mg/L		1		A2320 B	04/15/11 16:35 / jba
Calcium	7	mg/L		1		E200.7	04/25/11 16:39 / cp
Chloride	346	mg/L	D	4		E300.0	04/22/11 03:02 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 09:37 / jba
Magnesium	1	mg/L		1		E200.7	04/25/11 16:39 / cp
Nitrogen, Ammonia as N	0.21	mg/L		0.05		A4500-NH3 G	04/21/11 16:46 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:37 / dc
Potassium	17	mg/L		1		E200.7	04/25/11 16:39 / cp
Silica	14.0	mg/L		0.2		E200.8	04/16/11 15:32 / sml
Sodium	511	mg/L		1		E200.7	04/25/11 16:39 / cp
Sulfate	293	mg/L	D	4		E300.0	04/20/11 04:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2200	umhos/cm		1		A2510 B	04/15/11 11:48 / lr
pH	9.10	s.u.		0.01		A4500-H B	04/15/11 11:48 / lr
Solids, Total Dissolved TDS @ 180 C	1310	mg/L		10		A2540 C	04/15/11 16:32 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 15:32 / sml
Arsenic	0.001	mg/L		0.001		E200.8	04/16/11 15:32 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 15:32 / sml
Boron	1.4	mg/L		0.1		E200.7	04/25/11 16:39 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 15:32 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 15:32 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 15:32 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 15:32 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 15:32 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 15:32 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 15:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 15:32 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 15:32 / sml
Selenium	0.005	mg/L	D	0.002		E200.8	04/16/11 15:32 / sml
Uranium	0.0005	mg/L		0.0003		E200.8	04/16/11 15:32 / sml
Uranium, Activity	3.2E-10	uCi/mL		2.0E-10		E200.8	04/16/11 15:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 15:32 / sml
Zinc	0.02	mg/L		0.01		E200.7	04/25/11 16:39 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:32 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:32 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-006
Client Sample ID: Monitor 7

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 14:38 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 14:38 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 14:38 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:00 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/10/11 13:00 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/24/11 02:45 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 02:45 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/24/11 02:45 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.91	%				Calculation	05/02/11 09:16 / kbh
Anions	21.4	meq/L				Calculation	05/02/11 09:16 / kbh
Cations	23.1	meq/L				Calculation	05/02/11 09:16 / kbh
Solids, Total Dissolved Calculated	1360	mg/L				Calculation	05/02/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	05/02/11 09:16 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-007
Client Sample ID: Monitor 8

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	294	mg/L		1		A2320 B	04/15/11 16:44 / jba
Carbonate as CO ₃	21	mg/L		1		A2320 B	04/15/11 16:44 / jba
Bicarbonate as HCO ₃	314	mg/L		1		A2320 B	04/15/11 16:44 / jba
Calcium	10	mg/L		1		E200.7	04/25/11 16:51 / cp
Chloride	197	mg/L		1		E300.0	04/20/11 04:22 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	04/18/11 09:44 / jba
Magnesium	2	mg/L		1		E200.7	04/25/11 16:51 / cp
Nitrogen, Ammonia as N	0.28	mg/L		0.05		A4500-NH ₃ G	04/21/11 16:48 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:39 / dc
Potassium	18	mg/L		1		E200.7	04/25/11 16:51 / cp
Silica	15.5	mg/L		0.2		E200.8	04/16/11 16:00 / sml
Sodium	461	mg/L		1		E200.7	04/25/11 16:51 / cp
Sulfate	396	mg/L	D	4		E300.0	04/20/11 04:22 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1960	umhos/cm		1		A2510 B	04/15/11 11:49 / lr
pH	8.84	s.u.		0.01		A4500-H B	04/15/11 11:49 / lr
Solids, Total Dissolved TDS @ 180 C	1230	mg/L		10		A2540 C	04/15/11 16:32 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 16:00 / sml
Arsenic	ND	mg/L		0.001		E200.8	04/16/11 16:00 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 16:00 / sml
Boron	1.4	mg/L		0.1		E200.7	04/25/11 16:51 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 16:00 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 16:00 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 16:00 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 16:00 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 16:00 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 16:00 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 16:00 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 16:00 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 16:00 / sml
Selenium	0.006	mg/L	D	0.002		E200.8	04/16/11 16:00 / sml
Uranium	0.0003	mg/L		0.0003		E200.8	04/16/11 16:00 / sml
Uranium, Activity	2.3E-10	uCi/mL		2.0E-10		E200.8	04/16/11 16:00 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 16:00 / sml
Zinc	0.01	mg/L		0.01		E200.7	04/25/11 16:51 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:36 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:36 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-007
Client Sample ID: Monitor 8

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 16:49 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 16:49 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 16:49 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	1	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:01 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 13:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/24/11 04:57 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 04:57 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/24/11 04:57 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.63	%				Calculation	05/02/11 09:16 / kbh
Anions	19.7	meq/L				Calculation	05/02/11 09:16 / kbh
Cations	21.2	meq/L				Calculation	05/02/11 09:16 / kbh
Solids, Total Dissolved Calculated	1280	mg/L				Calculation	05/02/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	05/02/11 09:16 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-008
Client Sample ID: Monitor 9

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	337	mg/L		1		A2320 B	04/15/11 16:54 / jba
Carbonate as CO3	32	mg/L		1		A2320 B	04/15/11 16:54 / jba
Bicarbonate as HCO3	345	mg/L		1		A2320 B	04/15/11 16:54 / jba
Calcium	3	mg/L		1		E200.7	04/25/11 16:59 / cp
Chloride	279	mg/L	D	2		E300.0	04/22/11 03:18 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 10:03 / jba
Magnesium	ND	mg/L		1		E200.7	04/25/11 16:59 / cp
Nitrogen, Ammonia as N	0.27	mg/L		0.05		A4500-NH3 G	04/22/11 11:47 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:49 / dc
Potassium	17	mg/L		1		E200.7	04/25/11 16:59 / cp
Silica	14.4	mg/L		0.2		E200.8	04/16/11 16:07 / sml
Sodium	397	mg/L		1		E200.7	04/25/11 16:59 / cp
Sulfate	89	mg/L	D	4		E300.0	04/20/11 04:37 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	1680	umhos/cm		1		A2510 B	04/15/11 11:51 / lr
pH	9.02	s.u.		0.01		A4500-H B	04/15/11 11:51 / lr
Solids, Total Dissolved TDS @ 180 C	964	mg/L		10		A2540 C	04/15/11 16:33 / lr

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	04/16/11 16:07 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/16/11 16:07 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 16:07 / sml
Boron	1.2	mg/L		0.1		E200.7	04/25/11 16:59 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 16:07 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 16:07 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 16:07 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 16:07 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 16:07 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 16:07 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 16:07 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 16:07 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 16:07 / sml
Selenium	0.004	mg/L	D	0.002		E200.8	04/16/11 16:07 / sml
Uranium	0.0073	mg/L		0.0003		E200.8	04/16/11 16:07 / sml
Uranium, Activity	4.9E-09	uCi/mL		2.0E-10		E200.8	04/16/11 16:07 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 16:07 / sml
Zinc	ND	mg/L		0.01		E200.7	04/25/11 16:59 / cp

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:40 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:40 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-008
Client Sample ID: Monitor 9

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.0	pCi/L		0.8		E909.0	06/01/11 19:01 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 19:01 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 19:01 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	0.5	pCi/L		0.1		E903.0	05/02/11 12:53 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 12:53 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:01 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 13:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/24/11 07:08 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 07:08 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/24/11 07:08 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	05/02/11 23:36 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 23:36 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.14	%				Calculation	05/02/11 09:16 / kbh
Anions	16.5	meq/L				Calculation	05/02/11 09:16 / kbh
Cations	17.9	meq/L				Calculation	05/02/11 09:16 / kbh
Solids, Total Dissolved Calculated	1010	mg/L				Calculation	05/02/11 09:16 / kbh
TDS Balance (0.80 - 1.20)	0.950					Calculation	05/02/11 09:16 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-009
Client Sample ID: Monitor 10

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	314	mg/L		1		A2320 B	04/15/11 17:02 / jba
Carbonate as CO ₃	16	mg/L		1		A2320 B	04/15/11 17:02 / jba
Bicarbonate as HCO ₃	351	mg/L		1		A2320 B	04/15/11 17:02 / jba
Calcium	9	mg/L		1		E200.7	04/25/11 17:03 / cp
Chloride	175	mg/L		1		E300.0	04/20/11 05:24 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	04/18/11 10:09 / jba
Magnesium	2	mg/L		1		E200.7	04/25/11 17:03 / cp
Nitrogen, Ammonia as N	0.34	mg/L		0.05		A4500-NH ₃ G	04/22/11 11:49 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:52 / dc
Potassium	13	mg/L		1		E200.7	04/25/11 17:03 / cp
Silica	13.1	mg/L		0.2		E200.8	04/16/11 16:42 / sml
Sodium	432	mg/L		1		E200.7	04/25/11 17:03 / cp
Sulfate	347	mg/L	D	4		E300.0	04/20/11 05:24 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	1820	umhos/cm		1		A2510 B	04/15/11 11:53 / lr
pH	8.61	s.u.		0.01		A4500-H B	04/15/11 11:53 / lr
Solids, Total Dissolved TDS @ 180 C	1140	mg/L		10		A2540 C	04/15/11 16:33 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 16:42 / sml
Arsenic	0.001	mg/L		0.001		E200.8	04/16/11 16:42 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 16:42 / sml
Boron	1.4	mg/L		0.1		E200.7	04/25/11 17:03 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 16:42 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 16:42 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 16:42 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 16:42 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 16:42 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 16:42 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 16:42 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 16:42 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 16:42 / sml
Selenium	0.004	mg/L	D	0.002		E200.8	04/16/11 16:42 / sml
Uranium	0.0006	mg/L		0.0003		E200.8	04/16/11 16:42 / sml
Uranium, Activity	4.3E-10	uCi/mL		2.0E-10		E200.8	04/16/11 16:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 16:42 / sml
Zinc	0.02	mg/L		0.01		E200.7	04/25/11 17:03 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:44 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:44 / sml

Report Definitions:
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D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-009
Client Sample ID: Monitor 10

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 21:12 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 21:12 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 21:12 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	0.4	pCi/L		0.1		E903.0	05/02/11 14:28 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/02/11 14:28 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 14:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 13:01 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 13:01 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 13:01 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/24/11 10:28 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 10:28 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/24/11 10:28 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/03/11 02:01 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	05/03/11 02:01 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/03/11 02:01 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.21	%				Calculation	05/02/11 09:17 / kbh
Anions	18.5	meq/L				Calculation	05/02/11 09:17 / kbh
Cations	19.7	meq/L				Calculation	05/02/11 09:17 / kbh
Solids, Total Dissolved Calculated	1180	mg/L				Calculation	05/02/11 09:17 / kbh
TDS Balance (0.80 - 1.20)	0.970					Calculation	05/02/11 09:17 / kbh

Report Definitions:
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QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-010
Client Sample ID: Monitor 11

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	345	mg/L		1		A2320 B	04/15/11 17:11 / jba
Carbonate as CO ₃	55	mg/L		1		A2320 B	04/15/11 17:11 / jba
Bicarbonate as HCO ₃	309	mg/L		1		A2320 B	04/15/11 17:11 / jba
Calcium	5	mg/L		1		E200.8	04/16/11 16:49 / sml
Chloride	401	mg/L	D	4		E300.0	04/22/11 03:33 / ljl
Fluoride	0.8	mg/L		0.1		A4500-F C	04/18/11 10:12 / jba
Magnesium	ND	mg/L		1		E200.8	04/16/11 16:49 / sml
Nitrogen, Ammonia as N	0.24	mg/L		0.05		A4500-NH ₃ G	04/22/11 11:51 / dc
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	04/18/11 12:54 / dc
Potassium	23	mg/L		1		E200.8	04/16/11 16:49 / sml
Silica	11.7	mg/L		0.2		E200.8	04/16/11 16:49 / sml
Sodium	420	mg/L		1		E200.8	04/16/11 16:49 / sml
Sulfate	135	mg/L	D	4		E300.0	04/20/11 05:39 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	2160	umhos/cm		1		A2510 B	04/15/11 12:01 / lr
pH	9.29	s.u.		0.01		A4500-H B	04/15/11 12:01 / lr
Solids, Total Dissolved TDS @ 180 C	1250	mg/L		10		A2540 C	04/15/11 16:33 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/16/11 16:49 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/16/11 16:49 / sml
Barium	ND	mg/L		0.1		E200.8	04/16/11 16:49 / sml
Boron	1.4	mg/L		0.1		E200.7	04/25/11 18:04 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/16/11 16:49 / sml
Chromium	ND	mg/L		0.05		E200.8	04/16/11 16:49 / sml
Copper	ND	mg/L		0.01		E200.8	04/16/11 16:49 / sml
Iron	ND	mg/L		0.03		E200.8	04/16/11 16:49 / sml
Lead	ND	mg/L		0.001		E200.8	04/16/11 16:49 / sml
Manganese	ND	mg/L		0.01		E200.8	04/16/11 16:49 / sml
Mercury	ND	mg/L		0.001		E200.8	04/16/11 16:49 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/16/11 16:49 / sml
Nickel	ND	mg/L		0.05		E200.8	04/16/11 16:49 / sml
Selenium	0.004	mg/L	D	0.002		E200.8	04/16/11 16:49 / sml
Uranium	0.0008	mg/L		0.0003		E200.8	04/16/11 16:49 / sml
Uranium, Activity	5.7E-10	uCi/mL		2.0E-10		E200.8	04/16/11 16:49 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/16/11 16:49 / sml
Zinc	0.01	mg/L		0.01		E200.7	04/25/11 18:04 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 15:48 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 15:48 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040476-010
Client Sample ID: Monitor 11

Report Date: 06/13/11
Collection Date: 04/11/11
Date Received: 04/14/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	06/01/11 23:24 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/01/11 23:24 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	06/01/11 23:24 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/06/11 11:04 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/06/11 11:04 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/06/11 11:04 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 14:28 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	05/02/11 14:28 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 14:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/10/11 13:00 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/10/11 13:00 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/10/11 13:00 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	05/24/11 12:39 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/24/11 12:39 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/24/11 12:39 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/06/11 08:47 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:47 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/06/11 08:47 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/03/11 02:01 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/03/11 02:01 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/03/11 02:01 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/05/11 14:45 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/05/11 14:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/05/11 14:45 / dmf
DATA QUALITY							
A/C Balance (± 5)	-4.61	%				Calculation	05/02/11 09:17 / kbh
Anions	21.1	meq/L				Calculation	05/02/11 09:17 / kbh
Cations	19.2	meq/L				Calculation	05/02/11 09:17 / kbh
Solids, Total Dissolved Calculated	1210	mg/L				Calculation	05/02/11 09:17 / kbh
TDS Balance (0.80 - 1.20)	1.03					Calculation	05/02/11 09:17 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144875
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110415A 04/15/11 15:09
Alkalinity, Total as CaCO3		1.53	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		1.86	mg/L	1.0						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110415A 04/15/11 15:25
Alkalinity, Total as CaCO3		209	mg/L	5.0	104	90	110			
Sample ID: C11040476-001BDUP		Sample Duplicate								Run: MANTECH_110415A 04/15/11 15:41
Alkalinity, Total as CaCO3		406	mg/L	5.0				0.2	10	
Sample ID: C11040476-001BMS		Sample Matrix Spike								Run: MANTECH_110415A 04/15/11 15:51
Alkalinity, Total as CaCO3		540	mg/L	5.0	108	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110415A		
Sample ID: ICV2_110415_1	Initial Calibration Verification Standard									04/15/11 10:59
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 110415_1_PH-W_555A-2		
Sample ID: MBLK1_110415_1	Method Blank									Run: ORION555A-2_110415A 04/15/11 10:56
Conductivity @ 25 C		ND	umhos/cm	1.0						
Sample ID: C11040476-004BDUP	Sample Duplicate									Run: ORION555A-2_110415A 04/15/11 11:38
Conductivity @ 25 C		2230	umhos/cm	1.0				0.2	10	
Sample ID: C11040476-010BDUP	Sample Duplicate									Run: ORION555A-2_110415A 04/15/11 12:02
Conductivity @ 25 C		2160	umhos/cm	1.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/13/11
Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110415_1_SLDS-TDS-W		
Sample ID: MBLK1_110415		Method Blank								
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						04/15/11 16:31
Sample ID: LCS1_110415		Laboratory Control Sample								
Solids, Total Dissolved TDS @ 180 C		998	mg/L	10	100	90	110			04/15/11 16:31
Sample ID: C11040476-005ADUP		Sample Duplicate								
Solids, Total Dissolved TDS @ 180 C		1140	mg/L	10				0.0	10	04/15/11 16:32
Sample ID: C11040476-010ADUP		Sample Duplicate								
Solids, Total Dissolved TDS @ 180 C		1240	mg/L	10				0.6	10	04/15/11 16:33
Sample ID: C11040483-004AMS		Sample Matrix Spike								
Solids, Total Dissolved TDS @ 180 C		2560	mg/L	10	102	90	110			04/15/11 16:34

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144902
Sample ID: MBLK		Method Blank								Run: MANTECH_110418A
Fluoride		ND	mg/L	0.10						04/18/11 07:44
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110418A
Fluoride		1.00	mg/L	0.10	98	90	110			04/18/11 07:47
Sample ID: C11040476-002BMS		Sample Matrix Spike								Run: MANTECH_110418A
Fluoride		1.59	mg/L	0.10	98	80	120			04/18/11 09:24
Sample ID: C11040476-002BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110418A
Fluoride		1.62	mg/L	0.10	101	80	120	1.9	10	04/18/11 09:27
Sample ID: C11040476-010BMS		Sample Matrix Spike								Run: MANTECH_110418A
Fluoride		1.85	mg/L	0.10	102	80	120			04/18/11 10:19
Sample ID: C11040476-010BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110418A
Fluoride		1.82	mg/L	0.10	99	80	120	1.6	10	04/18/11 10:26

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/13/11
Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110415A		
Sample ID: ICV1_110415_1	Initial Calibration Verification Standard									
pH		6.92	s.u.	0.010	101	98	102			04/15/11 10:57
Method: A4500-H B								Batch: 110415_1_PH-W_555A-2		
Sample ID: C11040476-004BDUP	Sample Duplicate									
pH		9.88	s.u.	0.010				0.0	3	Run: ORION555A-2_110415A 04/15/11 11:38
Sample ID: C11040476-010BDUP	Sample Duplicate									
pH		9.28	s.u.	0.010				0.1	3	Run: ORION555A-2_110415A 04/15/11 12:02

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										
Batch: R145058										
Sample ID: MBLK-6		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.050						Run: TECHNICON_110421A 04/21/11 15:34
Sample ID: LCS-7		Laboratory Control Sample								
Nitrogen, Ammonia as N		2.02	mg/L	0.050	101	90	110			Run: TECHNICON_110421A 04/21/11 15:36
Sample ID: C11040476-007GMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.99	mg/L	0.050	88	80	120			Run: TECHNICON_110421A 04/21/11 16:50
Sample ID: C11040476-007GMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		2.04	mg/L	0.050	90	80	120	2.5	10	Run: TECHNICON_110421A 04/21/11 16:52
Method: A4500-NH3 G										
Batch: R145085										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.050						Run: TECHNICON_110422A 04/22/11 11:43
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Ammonia as N		2.05	mg/L	0.050	101	90	110			Run: TECHNICON_110422A 04/22/11 11:45
Sample ID: C11040483-001DMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.81	mg/L	0.050	92	80	120			Run: TECHNICON_110422A 04/22/11 11:57
Sample ID: C11040483-001DMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		1.85	mg/L	0.050	94	80	120	2.2	10	Run: TECHNICON_110422A 04/22/11 11:59

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R145139										
Sample ID: MB-110425A	6	Method Blank					Run: ICP2-C_110425A			04/25/11 14:20
Boron		ND	mg/L	0.10						
Calcium		ND	mg/L	1.0						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Sodium		ND	mg/L	1.0						
Zinc		ND	mg/L	0.010						
Sample ID: LFB-110425A	6	Laboratory Fortified Blank					Run: ICP2-C_110425A			04/25/11 14:24
Boron		0.890	mg/L	0.10	85	85	115			
Calcium		47.4	mg/L	0.50	95	85	115			
Magnesium		46.2	mg/L	0.50	92	85	115			
Potassium		48.9	mg/L	3.3	98	85	115			
Sodium		49.3	mg/L	0.50	99	85	115			
Zinc		0.941	mg/L	0.010	94	85	115			
Sample ID: C11040476-006CMS2	6	Sample Matrix Spike					Run: ICP2-C_110425A			04/25/11 16:43
Boron		3.24	mg/L	0.10	93	70	130			
Calcium		103	mg/L	1.0	95	70	130			
Magnesium		99.8	mg/L	1.0	97	70	130			
Potassium		97.1	mg/L	1.0	78	70	130			
Sodium		597	mg/L	1.0		70	130			A
Zinc		1.97	mg/L	0.010	96	70	130			
Sample ID: C11040476-006CMSD	6	Sample Matrix Spike Duplicate					Run: ICP2-C_110425A			04/25/11 16:47
Boron		3.36	mg/L	0.10	98	70	130	3.6	20	
Calcium		102	mg/L	1.0	94	70	130	1.0	20	
Magnesium		101	mg/L	1.0	98	70	130	1.0	20	
Potassium		98.6	mg/L	1.0	80	70	130	1.6	20	
Sodium		593	mg/L	1.0		70	130	0.7	20	A
Zinc		1.97	mg/L	0.010	95	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144879A										
Sample ID: C11040476-010CMS4	21	Sample Matrix Spike			Run: ICPMS4-C_110415A				04/16/11 16:56	
Aluminum		0.127	mg/L	0.10	94	70	130			
Arsenic		0.0551	mg/L	0.0010	105	70	130			
Barium		0.0812	mg/L	0.0010	108	70	130			
Cadmium		0.0483	mg/L	0.010	97	70	130			
Calcium		18.1	mg/L	1.0	103	70	130			
Chromium		0.0513	mg/L	0.050	102	70	130			
Copper		0.0488	mg/L	0.010	98	70	130			
Iron		1.24	mg/L	0.030	98	70	130			
Lead		0.0527	mg/L	0.050	105	70	130			
Magnesium		12.8	mg/L	1.0	97	70	130			
Manganese		0.0514	mg/L	0.010	100	70	130			
Mercury		0.00151	mg/L	0.0010	30	70	130			S
Molybdenum		0.0665	mg/L	0.0010	108	70	130			
Nickel		0.0490	mg/L	0.0010	98	70	130			
Potassium		36.0	mg/L	1.0	101	70	130			
Selenium		0.0559	mg/L	0.0010	104	70	130			
Silicon		5.94	mg/L	0.10		70	130			A
Sodium		426	mg/L	1.0		70	130			A
Uranium		0.0532	mg/L	0.00030	105	70	130			
Vanadium		0.0537	mg/L	0.0010	105	70	130			
Zinc		0.0477	mg/L	0.010	90	70	130			
Sample ID: C11040476-010CMSD	21	Sample Matrix Spike Duplicate			Run: ICPMS4-C_110415A				04/16/11 17:03	
Aluminum		0.125	mg/L	0.10	90	70	130	1.6	20	
Arsenic		0.0541	mg/L	0.0010	103	70	130	1.7	20	
Barium		0.0790	mg/L	0.0010	103	70	130	2.9	20	
Cadmium		0.0475	mg/L	0.010	95	70	130	1.7	20	
Calcium		17.7	mg/L	1.0	99	70	130	2.4	20	
Chromium		0.0500	mg/L	0.050	100	70	130	2.5	20	
Copper		0.0474	mg/L	0.010	95	70	130	2.9	20	
Iron		1.22	mg/L	0.030	96	70	130	1.8	20	
Lead		0.0520	mg/L	0.050	104	70	130	1.4	20	
Magnesium		12.5	mg/L	1.0	94	70	130	2.6	20	
Manganese		0.0502	mg/L	0.010	98	70	130	2.2	20	
Mercury		0.00193	mg/L	0.0010	39	70	130	25	20	SR
Molybdenum		0.0661	mg/L	0.0010	107	70	130	0.7	20	
Nickel		0.0480	mg/L	0.0010	96	70	130	2.0	20	
Potassium		35.3	mg/L	1.0	96	70	130	1.9	20	
Selenium		0.0556	mg/L	0.0010	103	70	130	0.5	20	
Silicon		5.84	mg/L	0.10		70	130	1.6	20	A
Sodium		429	mg/L	1.0		70	130	0.5	20	A
Uranium		0.0526	mg/L	0.00030	103	70	130	1.2	20	
Vanadium		0.0521	mg/L	0.0010	102	70	130	3.0	20	
Zinc		0.0468	mg/L	0.010	88	70	130	2.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R144879A
Sample ID: LRB	21	Method Blank		Run: ICPMS4-C_110415A				04/15/11 19:10		
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Calcium		ND	mg/L	1.0						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Iron		ND	mg/L	0.030						
Lead		ND	mg/L	0.0010						
Magnesium		ND	mg/L	1.0						
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Potassium		ND	mg/L	1.0						
Selenium		0.00193	mg/L	0.0010						
Silicon		ND	mg/L	0.0050						
Sodium		ND	mg/L	1.0						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB	21	Laboratory Fortified Blank		Run: ICPMS4-C_110415A				04/15/11 19:17		
Aluminum		0.0520	mg/L	0.0010	104	85	115			
Arsenic		0.0517	mg/L	0.0010	103	85	115			
Barium		0.0502	mg/L	0.0010	100	85	115			
Cadmium		0.0509	mg/L	0.0010	102	85	115			
Calcium		11.7	mg/L	0.12	93	85	115			
Chromium		0.0524	mg/L	0.0010	105	85	115			
Copper		0.0539	mg/L	0.0010	108	85	115			
Iron		1.31	mg/L	0.012	103	85	115			
Lead		0.0506	mg/L	0.0010	101	85	115			
Magnesium		11.7	mg/L	0.12	94	85	115			
Manganese		0.0507	mg/L	0.0010	101	85	115			
Mercury		0.00533	mg/L	0.0010	107	85	115			
Molybdenum		0.0478	mg/L	0.0010	96	85	115			
Nickel		0.0531	mg/L	0.0010	106	85	115			
Potassium		11.7	mg/L	0.12	94	85	115			
Selenium		0.0548	mg/L	0.0010	106	85	115			
Silicon		0.576	mg/L	0.0010	110	85	115			
Sodium		11.6	mg/L	0.12	93	85	115			
Uranium		0.0508	mg/L	0.00030	102	85	115			
Vanadium		0.0515	mg/L	0.0010	103	85	115			
Zinc		0.0488	mg/L	0.0010	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29614
Sample ID: MB-29614		Method Blank								Run: ICPMS4-C_110421A 04/21/11 13:09
Uranium		ND	mg/L	0.00030						
Sample ID: LCS2-29614		Laboratory Control Sample								Run: ICPMS4-C_110421A 04/21/11 13:17
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: C11040476-010HMS		Sample Matrix Spike								Run: ICPMS4-C_110421A 04/21/11 15:53
Uranium		0.0556	mg/L	0.00030	111	70	130			
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								Run: ICPMS4-C_110421A 04/21/11 15:57
Uranium		0.0556	mg/L	0.00030	111	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110419A		
Sample ID: ICV110419	2	Initial Calibration Verification Standard								04/19/11 12:26
Chloride		9.84	mg/L	1.0	98	90	110			
Sulfate		40.4	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R145050		
Sample ID: ICB	2	Method Blank					Run: IC2-C_110419A			04/19/11 12:41
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	4.0						
Sample ID: LFB110419	2	Laboratory Fortified Blank					Run: IC2-C_110419A			04/19/11 12:57
Chloride		9.67	mg/L	1.0	96	90	110			
Sulfate		40.1	mg/L	1.0	100	90	110			
Sample ID: C11040476-008BMS	2	Sample Matrix Spike					Run: IC2-C_110419A			04/20/11 04:53
Chloride		319	mg/L	1.0		80	120			A
Sulfate		282	mg/L	4.0	101	80	120			
Sample ID: C11040476-008BMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110419A			04/20/11 05:08
Chloride		318	mg/L	1.0		80	120	0.2	10	A
Sulfate		282	mg/L	4.0	101	80	120	0.0	10	
Method: E300.0								Analytical Run: IC2-C_110421A		
Sample ID: ICV		Initial Calibration Verification Standard								04/21/11 20:21
Chloride		9.95	mg/L	1.0	99	90	110			
Sample ID: ICB2-110421		Initial Calibration Blank, Instrument Blank								04/21/11 21:23
Chloride		0.0210	mg/L	1.0		0	0			
Method: E300.0								Batch: R145093		
Sample ID: ICB-110421		Method Blank					Run: IC2-C_110421A			04/21/11 20:37
Chloride		ND	mg/L	1.0						
Sample ID: LFB-110421		Laboratory Fortified Blank					Run: IC2-C_110421A			04/21/11 20:52
Chloride		9.67	mg/L	1.0	97	90	110			
Sample ID: LFBD-110421		Laboratory Fortified Blank Duplicate					Run: IC2-C_110421A			04/21/11 21:07
Chloride		9.72	mg/L	1.0	97	90	110			
Sample ID: C11040476-004BMS		Sample Matrix Spike					Run: IC2-C_110421A			04/22/11 02:16
Chloride		399	mg/L	2.0	81	80	120			
Sample ID: C11040476-004BMSD		Sample Matrix Spike Duplicate					Run: IC2-C_110421A			04/22/11 02:31
Chloride		398	mg/L	2.0	81	80	120	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										
Batch: R144868										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						Run: TECHNICON_110415B 04/15/11 14:34
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Nitrate+Nitrite as N		2.51	mg/L	0.10	100	90	110			Run: TECHNICON_110415B 04/15/11 14:36
Sample ID: C11040470-002CMS		Sample Matrix Spike								
Nitrogen, Nitrate+Nitrite as N		2.14	mg/L	0.10	102	90	110			Run: TECHNICON_110415B 04/15/11 16:09
Sample ID: C11040470-002CMSD		Sample Matrix Spike Duplicate								
Nitrogen, Nitrate+Nitrite as N		1.96	mg/L	0.10	92	90	110	8.8	10	Run: TECHNICON_110415B 04/15/11 16:11
Method: E353.2										
Batch: R144900										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						Run: TECHNICON_110418A 04/18/11 12:24
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Nitrate+Nitrite as N		2.58	mg/L	0.10	103	90	110			Run: TECHNICON_110418A 04/18/11 12:27
Sample ID: C11040476-007GMS		Sample Matrix Spike								
Nitrogen, Nitrate+Nitrite as N		2.09	mg/L	0.10	107	90	110			Run: TECHNICON_110418A 04/18/11 12:42
Sample ID: C11040476-007GMSD		Sample Matrix Spike Duplicate								
Nitrogen, Nitrate+Nitrite as N		2.11	mg/L	0.10	108	90	110	1.0	10	Run: TECHNICON_110418A 04/18/11 12:44

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: RA226-5305										
Sample ID: C11040476-001DMS		Sample Matrix Spike								
Radium 226		23	pCi/L		99	70	130			05/02/11 12:53
Sample ID: C11040476-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		22	pCi/L		97	70	130	1.7	20.7	05/02/11 12:53
Sample ID: C11040601-001EDUP	3	Sample Duplicate								
Radium 226		24	pCi/L					4.8	17.1	05/02/11 14:28
Radium 226 precision (±)		0.86	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: MB-RA226-5305	3	Method Blank								
Radium 226		ND	pCi/L	0.10						05/02/11 14:28
Radium 226 precision (±)		0.050	pCi/L							U
Radium 226 MDC		0.12	pCi/L							
Sample ID: LCS-RA226-5305		Laboratory Control Sample								
Radium 226		6.0	pCi/L		97	85	115			05/02/11 14:28
Method: E903.0 Batch: RA226-5379										
Sample ID: C11050695-001DMS		Sample Matrix Spike								
Radium 226		5.90	pCi/L		91	70	130			05/31/11 17:25
Sample ID: C11050695-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		5.87	pCi/L		90	70	130	0.6	27.7	05/31/11 17:25
Sample ID: MB-RA226-5379	3	Method Blank								
Radium 226		ND	pCi/L	0.10						05/31/11 23:45
Radium 226 precision (±)		0.071	pCi/L							U
Radium 226 MDC		0.15	pCi/L							
Sample ID: LCS-RA226-5379		Laboratory Control Sample								
Radium 226		6.7	pCi/L		106	85	115			05/31/11 23:45
Method: E903.0 Batch: 29614										
Sample ID: C11040326-005HMS		Sample Matrix Spike								
Radium 226		12	pCi/L		109	70	130			05/02/11 21:53
Sample ID: C11040326-005HMSD		Sample Matrix Spike Duplicate								
Radium 226		12	pCi/L		113	70	130	0.8	24.5	05/02/11 21:53
Sample ID: LCS-29614		Laboratory Control Sample								
Radium 226		13	pCi/L		111	85	115			05/03/11 02:01
Sample ID: MB-29614	3	Method Blank								
Radium 226		ND	pCi/L	0.10						05/03/11 02:01
Radium 226 precision (±)		0.096	pCi/L							U
Radium 226 MDC		0.24	pCi/L							

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5384		
Sample ID: C11050675-001HDUP	3	Sample Duplicate				Run: BERTHOLD 770-2_110525A			05/31/11 17:25	
Radium 226		-0.041	pCi/L					150	379.3	U
Radium 226 precision (±)		0.047	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: C11050696-001DMS		Sample Matrix Spike				Run: BERTHOLD 770-2_110525A			05/31/11 17:25	
Radium 226		20	pCi/L		98	70	130			
Sample ID: LCS-29928		Laboratory Control Sample				Run: BERTHOLD 770-2_110525A			05/31/11 17:25	
Radium 226		12	pCi/L		102	85	115			
Sample ID: MB-29928	3	Method Blank				Run: BERTHOLD 770-2_110525A			05/31/11 17:25	
Radium 226		ND	pCi/L	0.10						U
Radium 226 precision (±)		0.11	pCi/L							
Radium 226 MDC		0.28	pCi/L							

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										
Batch: R145601										
Sample ID: C11040476-010HMS		Sample Matrix Spike								
Thorium 230		9.0	pCi/L	102		70	130			05/05/11 14:45
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								
Thorium 230		10	pCi/L	114		70	130	12	47.8	05/05/11 14:45
Sample ID: LCS-29614		Laboratory Control Sample								
Thorium 230		11	pCi/L	119		70	130			05/05/11 14:45
Sample ID: MB-29614	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						05/05/11 14:45
Thorium 230 precision (±)		0.17	pCi/L							U
Thorium 230 MDC		0.28	pCi/L							
Method: E908.0										
Batch: RA-TH-ISO-1381										
Sample ID: LCS-RA-TH-ISO-1381		Laboratory Control Sample								
Thorium 230		5.6	pCi/L	100		70	130			05/09/11 14:40
Sample ID: C11040476-009DMS		Sample Matrix Spike								
Thorium 230		12	pCi/L	97		70	130			05/10/11 13:01
Sample ID: C11040476-009DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	87		70	130	8.1	37.6	05/10/11 13:01
Sample ID: MB-RA-TH-ISO-1381	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						05/10/11 13:01
Thorium 230 precision (±)		0.087	pCi/L							U
Thorium 230 MDC		0.19	pCi/L							

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0104		
Sample ID: T11040111-001DMSD		Sample Matrix Spike Duplicate								Run: SUB-T40681 05/31/11 16:39
Lead 210		140	pCi/L		101	70	130	7.6	16	
Sample ID: T11040111-001DMS		Sample Matrix Spike								Run: SUB-T40681 05/31/11 14:28
Lead 210		130	pCi/L		92	70	130			
Sample ID: LCS-PB-210-0104		Laboratory Control Sample								Run: SUB-T40681 05/31/11 03:31
Lead 210		53	pCi/L		100	70	130			
Sample ID: MB-PB-210-0104	3	Method Blank								Run: SUB-T40681 05/31/11 01:19
Lead 210		ND	pCi/L	0.80						U
Lead 210 precision (±)		0.95	pCi/L							
Lead 210 MDC		1.6	pCi/L							
Method: E909.0								Batch: T_13823		
Sample ID: T11040082-001HMSD		Sample Matrix Spike Duplicate								Run: SUB-T40682 05/22/11 20:05
Lead 210		81	pCi/L		86	70	130	6.3	16	
Sample ID: MB-13823	3	Method Blank								Run: SUB-T40682 05/22/11 11:19
Lead 210		1.3	pCi/L	0.80						U
Lead 210 precision (±)		5.6	pCi/L							
Lead 210 MDC		9.4	pCi/L							
Sample ID: LCS-13823		Laboratory Control Sample								Run: SUB-T40682 05/22/11 13:31
Lead 210		260	pCi/L		73	70	130			
Sample ID: T11040082-001HMS		Sample Matrix Spike								Run: SUB-T40682 05/22/11 17:54
Lead 210		86	pCi/L		93	70	130			

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/13/11

Project: Marsland Baseline Samples

Work Order: C11040476

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: 29614										
Sample ID: C11040476-010HMS		Sample Matrix Spike								
Polonium 210		6.3	pCi/L		117	70	130			05/06/11 08:47
Run: EGG-ORTEC_110503D										
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								
Polonium 210		5.6	pCi/L		103	70	130	13		62.3
Run: EGG-ORTEC_110503D										
Sample ID: LCS-29614		Laboratory Control Sample								
Polonium 210		28	pCi/L		91	70	130			05/06/11 08:47
Run: EGG-ORTEC_110503D										
Sample ID: MB-29614	3	Method Blank								
Polonium 210		0.23	pCi/L	0.20						05/06/11 11:02
Polonium 210 precision (±)		1.4	pCi/L							U
Polonium 210 MDC		3.0	pCi/L							
Method: E912.0 Batch: PO210-0368										
Sample ID: C11040504-002DMS		Sample Matrix Spike								
Polonium 210		14	pCi/L		107	70	130			05/06/11 11:04
Run: EGG-ORTEC_110505B										
Sample ID: C11040504-002DMSD		Sample Matrix Spike Duplicate								
Polonium 210		11	pCi/L		88	70	130	19		73.6
Run: EGG-ORTEC_110505B										
Sample ID: MB-PO210-0368	3	Method Blank								
Polonium 210		ND	pCi/L	0.20						05/06/11 11:04
Polonium 210 precision (±)		0.33	pCi/L							U
Polonium 210 MDC		0.74	pCi/L							
Sample ID: LCS-PO210-0368		Laboratory Control Sample								
Polonium 210		5.1	pCi/L		80	70	130			05/06/11 13:17
Run: EGG-ORTEC_110505B										

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Workorder Receipt Checklist



C11040476

Login completed by: Corinne Wagner

Date Received: 4/14/2011

Reviewed by: BL2000\emcpike

Received by: ckw

Reviewed Date: 4/19/2011

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 7.2°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved in the laboratory for dissolved radionuclides.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.		Project Name: Marsland Baseline Samples		Sample Origin State: _____		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 169 Crawford, NE 69339		Contact Name: Larry Teahon		Phone/Fax: 308-665-2341		Sampler: (Please Print) Brooke Bass Rhonda Pelton	
Invoice Address: P.O. Box 169 Crawford, NE 69339		Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114		Purchase Order: 1125		Quote/Bottle Order: _____	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page R U S H	
Sample Type: A W S B O Air Water Solids Other Vegetation Bioassay Other		Number of Containers HNO3-F, Metals RAW-F, Common Ions H2SO4-F, NO2, NO3, NH4 RAW-UF, Ra226, Po210 dis, sus RAW-UF, Pb210 dis and sus Raw-UF, Th230, U-nat dis and sus		Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L.		Shipped by: UPS CGLD Cooler ID(s): VCA000	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		Receipt Temp 7.2 °C	
1 Monitor 1		4/11/11		4:11:11		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
2 Monitor 2		4/11/11		4:11:11		Custody Seal Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
3 Monitor 4A		4/11/11		4:11:11		Please report 5/20/11	
4 Monitor 5		4/11/11		4:11:11		Please report 5/20/11	
5 Monitor 6		4/11/11		4:11:11		Please report 5/20/11	
6 Monitor 7		4/11/11		4:11:11		Please report 5/20/11	
7 Monitor 8		4/11/11		4:11:11		Please report 5/20/11	
8 Monitor 9		4/11/11		4:11:11		Please report 5/20/11	
9 Monitor 10		4/11/11		4:11:11		Please report 5/20/11	
10 Monitor 11		4/11/11		4:11:11		Please report 5/20/11	
Relinquished by (print): Rhonda Pelton 4-12-11 9:57		Signature: 		Date / Time: 4-12-11 9:57		Received by (print): UPS	
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Relinquished by (print): _____		Signature: _____		Date / Time: _____		Received by (print): _____	

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 4/12/11

ANALYST: _____

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.1		
Abs	0	.035	.176	.347		
Abs						

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 Monitor 1	10 ml	1	0.004	<0.01
2 Monitor 2	10 ml	1	0.008	<0.01
3 Monitor 4A	10 ml	1	0.000	<0.01
4 Monitor 5	10 ml	1	0.002	<0.01
5 Monitor 6	10 ml	1	0.005	<0.01
Dup				
6 Monitor 7	10 ml	1	0.002	<0.01
7 Monitor 8	10 ml	1	0.001	<0.01
8 Monitor 9	10 ml	1	0.002	<0.01
9 Monitor 10	10 ml	1	0.002	<0.01
10 Monitor 11	10 ml	1	0.003	<0.01
Dup				
11 Monitor 4A Dup	10 ml	1	0.000	<0.01
12 Monitor 7 Dup	10 ml	1	0.003	<0.01
13 Monitor 10 Dup	10 ml	1	0.002	<0.01
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

June 15, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040429 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 3 samples for Crow Butte Resources on 4/13/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040429-001	N1 (Niobrara River West Side)	04/08/11 00:00	04/13/11	Aqueous	Metals by ICP/ICPMS, Dissolved Sample Filtering Lead 210, Dissolved Polonium 210, Dissolved Radium 226, Dissolved Thorium, Isotopic
C11040429-002	N2 (Niobrara River East Side)	04/08/11 00:00	04/13/11	Aqueous	Same As Above
C11040429-003	Well #747 Manning	04/08/11 00:00	04/13/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040429

Report Date: 06/15/11

CASE NARRATIVE

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L. This is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

PRPE COMMENTS

The prep hold time for the Filtration of metals was exceeded by up to 3.33 days.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040429-001
Client Sample ID: N1 (Niobrara River West Side)

Report Date: 06/15/11
Collection Date: 04/08/11
Date Received: 04/13/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0104	mg/L		0.0003		E200.8	04/14/11 22:28 / sml
Uranium, Activity	7.0E-09	uCi/mL		2.0E-10		E200.8	04/14/11 22:28 / sml
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0	05/31/11 12:16 / eli-cs
Lead 210 precision (±)	1	pCi/L				E909.0	05/31/11 12:16 / eli-cs
Lead 210 MDC	1.6	pCi/L				E909.0	05/31/11 12:16 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/09/11 09:06 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	05/09/11 09:06 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/09/11 09:06 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 08:42 / dmf

- See Case Narrative regarding Pb210 analysis.

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040429-002
Client Sample ID: N2 (Niobrara River East Side)

Report Date: 06/15/11
Collection Date: 04/08/11
Date Received: 04/13/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0088	mg/L		0.0003		E200.8	04/14/11 22:35 / sml
Uranium, Activity	5.9E-09	uCi/mL		2.0E-10		E200.8	04/14/11 22:35 / sml
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/31/11 18:50 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/31/11 18:50 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/31/11 18:50 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/09/11 09:06 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/09/11 09:06 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/09/11 09:06 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.8	pCi/L	U	0.8		E908.0	06/01/11 13:22 / dmf
Thorium 230 precision (±)	0.4	pCi/L				E908.0	06/01/11 13:22 / dmf
Thorium 230 MDC	0.8	pCi/L				E908.0	06/01/11 13:22 / dmf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040429-003
Client Sample ID: Well #747 Manning

Report Date: 06/15/11
Collection Date: 04/08/11
Date Received: 04/13/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	134	mg/L		1		A2320 B	04/14/11 15:10 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/14/11 15:10 / jba
Bicarbonate as HCO3	164	mg/L		1		A2320 B	04/14/11 15:10 / jba
Calcium	33	mg/L		1		E200.7	04/25/11 15:32 / cp
Chloride	3	mg/L		1		E300.0	04/19/11 18:20 / ljl
Fluoride	1.0	mg/L		0.1		A4500-F C	04/18/11 07:58 / jba
Magnesium	7	mg/L		1		E200.7	04/25/11 15:32 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/21/11 15:38 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	04/15/11 14:41 / dc
Potassium	3	mg/L		1		E200.7	04/25/11 15:32 / cp
Silica	82.6	mg/L		0.2		E200.7	04/25/11 15:32 / cp
Sodium	17	mg/L		1		E200.7	04/25/11 15:32 / cp
Sulfate	6	mg/L		1		E300.0	04/19/11 18:20 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	276	umhos/cm		1		A2510 B	04/14/11 14:36 / lmc
pH	8.02	s.u.		0.01		A4500-H B	04/14/11 14:36 / lmc
Solids, Total Dissolved TDS @ 180 C	218	mg/L		10		A2540 C	04/14/11 16:09 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/15/11 06:42 / sml
Arsenic	0.005	mg/L		0.001		E200.8	04/15/11 06:42 / sml
Barium	ND	mg/L		0.1		E200.8	04/15/11 06:42 / sml
Boron	ND	mg/L		0.1		E200.8	04/15/11 06:42 / sml
Cadmium	ND	mg/L		0.005		E200.8	04/15/11 06:42 / sml
Chromium	ND	mg/L		0.05		E200.8	04/15/11 06:42 / sml
Copper	ND	mg/L		0.01		E200.8	04/15/11 06:42 / sml
Iron	ND	mg/L		0.03		E200.8	04/15/11 06:42 / sml
Lead	ND	mg/L		0.001		E200.8	04/15/11 06:42 / sml
Manganese	ND	mg/L		0.01		E200.8	04/15/11 06:42 / sml
Mercury	ND	mg/L		0.001		E200.8	04/15/11 06:42 / sml
Molybdenum	ND	mg/L		0.1		E200.7	04/25/11 15:32 / cp
Nickel	ND	mg/L		0.05		E200.8	04/15/11 06:42 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/15/11 06:42 / sml
Uranium	0.0064	mg/L		0.0003		E200.8	04/15/11 06:42 / sml
Uranium, Activity	4.3E-09	uCi/mL		2.0E-10		E200.8	04/15/11 06:42 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/15/11 06:42 / sml
Zinc	0.04	mg/L		0.01		E200.8	04/15/11 06:42 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/21/11 14:06 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/21/11 14:06 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040429-003
Client Sample ID: Well #747 Manning

Report Date: 06/15/11
Collection Date: 04/08/11
Date Received: 04/13/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/31/11 21:02 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/31/11 21:02 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/31/11 21:02 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/09/11 09:06 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/09/11 09:06 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/09/11 09:06 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 11:18 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 11:18 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 11:18 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/10/11 08:42 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/10/11 08:42 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/10/11 08:42 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	05/23/11 07:02 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/23/11 07:02 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	05/23/11 07:02 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	05/06/11 08:46 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/06/11 08:46 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	05/06/11 08:46 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/02/11 21:53 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/02/11 21:53 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/02/11 21:53 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/04/11 15:26 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/04/11 15:26 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/04/11 15:26 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.357	%				Calculation	05/02/11 08:56 / kbh
Anions	3.02	meq/L				Calculation	05/02/11 08:56 / kbh
Cations	3.00	meq/L				Calculation	05/02/11 08:56 / kbh
Solids, Total Dissolved Calculated	259	mg/L				Calculation	05/02/11 08:56 / kbh
TDS Balance (0.80 - 1.20)	0.840					Calculation	05/02/11 08:56 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R144833
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110414A 04/14/11 14:47
Alkalinity, Total as CaCO3		2.66	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		3.24	mg/L	1.0						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110414A 04/14/11 15:03
Alkalinity, Total as CaCO3		208	mg/L	5.0	103	90	110			
Sample ID: C11040429-003BDUP		Sample Duplicate								Run: MANTECH_110414A 04/14/11 15:18
Alkalinity, Total as CaCO3		135	mg/L	5.0				0.7	10	
Sample ID: C11040429-003BMS		Sample Matrix Spike								Run: MANTECH_110414A 04/14/11 15:27
Alkalinity, Total as CaCO3		266	mg/L	5.0	105	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B								Analytical Run: ORION555A-2_110414A			
Sample ID: ICV2_110414_1	Initial Calibration Verification Standard									04/14/11 14:21	
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110				
Method: A2510 B								Batch: 110414_1_PH-W_555A-2			
Sample ID: MBLK1_110414_1	Method Blank									Run: ORION555A-2_110414A	04/14/11 14:18
Conductivity @ 25 C		ND	umhos/cm	1.0							
Sample ID: C11040437-005ADUP	Sample Duplicate									Run: ORION555A-2_110414A	04/14/11 14:56
Conductivity @ 25 C		1340	umhos/cm	1.0				0.0	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/15/11
Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R144872
Sample ID: MBLK1_		Method Blank								04/14/11 16:07
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_		Laboratory Control Sample								04/14/11 16:07
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	101	90	110			
Sample ID: C11040437-001ADUP		Sample Duplicate								04/14/11 16:11
Solids, Total Dissolved TDS @ 180 C		409	mg/L	10				0.9	10	
Sample ID: C11040456-001AMS		Sample Matrix Spike								04/14/11 16:13
Solids, Total Dissolved TDS @ 180 C		2290	mg/L	10	102	90	110			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R144902
Sample ID: MBLK		Method Blank								Run: MANTECH_110418A 04/18/11 07:44
Fluoride		ND	mg/L	0.10						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110418A 04/18/11 07:47
Fluoride		1.00	mg/L	0.10	98	90	110			
Sample ID: C11040470-001AMS		Sample Matrix Spike								Run: MANTECH_110418A 04/18/11 08:31
Fluoride		1.28	mg/L	0.10	96	80	120			
Sample ID: C11040470-001AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110418A 04/18/11 08:35
Fluoride		1.28	mg/L	0.10	96	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B		Analytical Run: ORION555A-2_110414A								
Sample ID: ICV1_110414_1	Initial Calibration Verification Standard									
pH		6.94	s.u.	0.010	101	98	102			04/14/11 14:19
Method: A4500-H B		Batch: 110414_1_PH-W_555A-2								
Sample ID: C11040437-005ADUP	Sample Duplicate									
pH		8.08	s.u.	0.010				0.0	3	Run: ORION555A-2_110414A 04/14/11 14:56

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R145058
Sample ID: MBLK-6		Method Blank								Run: TECHNICON_110421A
Nitrogen, Ammonia as N		ND	mg/L	0.050						04/21/11 15:34
Sample ID: LCS-7		Laboratory Control Sample								Run: TECHNICON_110421A
Nitrogen, Ammonia as N		2.02	mg/L	0.050	101	90	110			04/21/11 15:36
Sample ID: C11040437-002IMS		Sample Matrix Spike								Run: TECHNICON_110421A
Nitrogen, Ammonia as N		1.89	mg/L	0.050	90	80	120			04/21/11 15:48
Sample ID: C11040437-002IMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110421A
Nitrogen, Ammonia as N		1.87	mg/L	0.050	89	80	120	1.1	10	04/21/11 15:50

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R145139										
Sample ID: MB-110425A	6	Method Blank					Run: ICP2-C_110425A			04/25/11 14:20
Calcium		ND	mg/L	1.0						
Magnesium		ND	mg/L	1.0						
Molybdenum		ND	mg/L	0.10						
Potassium		ND	mg/L	1.0						
Silicon		ND	mg/L	0.10						
Sodium		ND	mg/L	1.0						
Sample ID: LFB-110425A	6	Laboratory Fortified Blank					Run: ICP2-C_110425A			04/25/11 14:24
Calcium		47.4	mg/L	0.50	95	85	115			
Magnesium		46.2	mg/L	0.50	92	85	115			
Molybdenum		0.948	mg/L	0.10	95	85	115			
Potassium		48.9	mg/L	3.3	98	85	115			
Silicon		0.558	mg/L	0.10	103	85	115			
Sodium		49.3	mg/L	0.50	99	85	115			
Sample ID: C11040429-003CMS2	6	Sample Matrix Spike					Run: ICP2-C_110425A			04/25/11 15:36
Calcium		128	mg/L	1.0	93	70	130			
Magnesium		104	mg/L	1.0	95	70	130			
Molybdenum		1.85	mg/L	0.10	91	70	130			
Potassium		87.8	mg/L	1.0	83	70	130			
Silicon		38.4	mg/L	0.10		70	130			A
Sodium		116	mg/L	1.0	97	70	130			
Sample ID: C11040429-003CMSD	6	Sample Matrix Spike Duplicate					Run: ICP2-C_110425A			04/25/11 15:42
Calcium		128	mg/L	1.0	93	70	130	0.3	20	
Magnesium		103	mg/L	1.0	94	70	130	1.0	20	
Molybdenum		1.88	mg/L	0.10	92	70	130	1.5	20	
Potassium		86.1	mg/L	1.0	82	70	130	2.0	20	
Silicon		38.9	mg/L	0.10		70	130	1.3	20	A
Sodium		116	mg/L	1.0	97	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R144832A										
Sample ID: C11040429-002AMS4	16	Sample Matrix Spike					Run: ICPMS4-C_110414A			04/14/11 22:42
Aluminum		0.0467	mg/L	0.0010	80	70	130			
Arsenic		0.0500	mg/L	0.0010	88	70	130			
Barium		0.187	mg/L	0.10	83	70	130			
Boron		0.0868	mg/L	0.0010	82	70	130			
Cadmium		0.0462	mg/L	0.010	92	70	130			
Chromium		0.0429	mg/L	0.0010	86	70	130			
Copper		0.0423	mg/L	0.010	83	70	130			
Iron		1.000	mg/L	0.030	79	70	130			
Lead		0.0463	mg/L	0.0010	93	70	130			
Manganese		0.0494	mg/L	0.010	89	70	130			
Mercury		0.00414	mg/L	0.0010	83	70	130			
Nickel		0.0409	mg/L	0.0010	81	70	130			
Selenium		0.0494	mg/L	0.0010	96	70	130			
Uranium		0.0541	mg/L	0.00030	91	70	130			
Vanadium		0.0531	mg/L	0.0010	85	70	130			
Zinc		0.0476	mg/L	0.010	91	70	130			
Sample ID: C11040429-002AMSD	16	Sample Matrix Spike Duplicate					Run: ICPMS4-C_110414A			04/14/11 22:49
Aluminum		0.0539	mg/L	0.0010	94	70	130	14	20	
Arsenic		0.0577	mg/L	0.0010	103	70	130	14	20	
Barium		0.198	mg/L	0.10	105	70	130	5.6	20	
Boron		0.0932	mg/L	0.0010	94	70	130	7.1	20	
Cadmium		0.0530	mg/L	0.010	106	70	130	14	20	
Chromium		0.0493	mg/L	0.0010	99	70	130	14	20	
Copper		0.0489	mg/L	0.010	97	70	130	14	20	
Iron		1.17	mg/L	0.030	92	70	130	15	20	
Lead		0.0531	mg/L	0.0010	106	70	130	14	20	
Manganese		0.0563	mg/L	0.010	103	70	130	13	20	
Mercury		0.00472	mg/L	0.0010	94	70	130	13	20	
Nickel		0.0487	mg/L	0.0010	97	70	130	17	20	
Selenium		0.0561	mg/L	0.0010	110	70	130	13	20	
Uranium		0.0613	mg/L	0.00030	105	70	130	13	20	
Vanadium		0.0599	mg/L	0.0010	99	70	130	12	20	
Zinc		0.0526	mg/L	0.010	101	70	130	10.0	20	
Sample ID: LRB	16	Method Blank					Run: ICPMS4-C_110414A			04/14/11 13:19
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Boron		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Iron		ND	mg/L	0.030						
Lead		ND	mg/L	0.0010						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R144832A		
Sample ID: LRB	16	Method Blank				Run: ICPMS4-C_110414A			04/14/11 13:19	
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Nickel		ND	mg/L	0.050						
Selenium		ND	mg/L	0.0010						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB	16	Laboratory Fortified Blank				Run: ICPMS4-C_110414A			04/14/11 13:26	
Aluminum		0.0529	mg/L	0.0010	106	85	115			
Arsenic		0.0508	mg/L	0.0010	102	85	115			
Barium		0.0510	mg/L	0.0010	102	85	115			
Boron		0.0451	mg/L	0.0010	98	85	115			
Cadmium		0.0511	mg/L	0.0010	102	85	115			
Chromium		0.0502	mg/L	0.0010	100	85	115			
Copper		0.0514	mg/L	0.0010	103	85	115			
Iron		1.24	mg/L	0.012	99	85	115			
Lead		0.0510	mg/L	0.0010	102	85	115			
Manganese		0.0496	mg/L	0.0010	99	85	115			
Mercury		0.00516	mg/L	0.0010	103	85	115			
Nickel		0.0506	mg/L	0.0010	101	85	115			
Selenium		0.0504	mg/L	0.0010	101	85	115			
Uranium		0.0515	mg/L	0.00030	103	85	115			
Vanadium		0.0497	mg/L	0.0010	99	85	115			
Zinc		0.0575	mg/L	0.0010	114	85	115			
Method: E200.8								Batch: 29614		
Sample ID: MB-29614		Method Blank				Run: ICPMS4-C_110421A			04/21/11 13:09	
Uranium		ND	mg/L	0.00030						
Sample ID: LCS2-29614		Laboratory Control Sample				Run: ICPMS4-C_110421A			04/21/11 13:17	
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: C11040476-010HMS		Sample Matrix Spike				Run: ICPMS4-C_110421A			04/21/11 15:53	
Uranium		0.0556	mg/L	0.00030	111	70	130			
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_110421A			04/21/11 15:57	
Uranium		0.0556	mg/L	0.00030	111	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110419A		
Sample ID: ICV110419	2	Initial Calibration Verification Standard								04/19/11 12:26
Chloride		9.84	mg/L	1.0	98	90	110			
Sulfate		40.4	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R145050		
Sample ID: ICB	2	Method Blank					Run: IC2-C_110419A			04/19/11 12:41
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	1.0						
Sample ID: LFB110419	2	Laboratory Fortified Blank					Run: IC2-C_110419A			04/19/11 12:57
Chloride		9.67	mg/L	1.0	96	90	110			
Sulfate		40.1	mg/L	1.0	100	90	110			
Sample ID: C11040427-006AMS	2	Sample Matrix Spike					Run: IC2-C_110419A			04/19/11 17:34
Chloride		150	mg/L	1.0	100	80	120			
Sulfate		589	mg/L	4.0	95	80	120			
Sample ID: C11040427-006AMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110419A			04/19/11 17:50
Chloride		151	mg/L	1.0	103	80	120	1.1	10	
Sulfate		597	mg/L	4.0	99	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R144868
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110415B 04/15/11 14:34
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110415B 04/15/11 14:36
Nitrogen, Nitrate+Nitrite as N		2.51	mg/L	0.10	100	90	110			
Sample ID: C11040437-005JMS		Sample Matrix Spike								Run: TECHNICON_110415B 04/15/11 15:29
Nitrogen, Nitrate+Nitrite as N		1.94	mg/L	0.10	99	90	110			
Sample ID: C11040437-005JMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110415B 04/15/11 15:31
Nitrogen, Nitrate+Nitrite as N		1.98	mg/L	0.10	101	90	110	2.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5305		
Sample ID: C11040476-001DMS		Sample Matrix Spike								
Radium 226		23	pCi/L		99	70	130			05/02/11 12:53
Sample ID: C11040476-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		22	pCi/L		97	70	130	1.7	20.7	05/02/11 12:53
Sample ID: C11040601-001EDUP	3	Sample Duplicate								
Radium 226		24	pCi/L					4.8	17.1	05/02/11 14:28
Radium 226 precision (±)		0.86	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: MB-RA226-5305	3	Method Blank								
Radium 226		ND	pCi/L	0.10						05/02/11 14:28
Radium 226 precision (±)		0.050	pCi/L							U
Radium 226 MDC		0.12	pCi/L							
Sample ID: LCS-RA226-5305		Laboratory Control Sample								
Radium 226		6.0	pCi/L		97	85	115			05/02/11 14:28
Method: E903.0								Batch: 29614		
Sample ID: C11040326-005HMS		Sample Matrix Spike								
Radium 226		12	pCi/L		109	70	130			05/02/11 21:53
Sample ID: C11040326-005HMSD		Sample Matrix Spike Duplicate								
Radium 226		12	pCi/L		113	70	130	0.8	24.5	05/02/11 21:53
Sample ID: LCS-29614		Laboratory Control Sample								
Radium 226		13	pCi/L		111	85	115			05/03/11 02:01
Sample ID: MB-29614	3	Method Blank								
Radium 226		ND	pCi/L	0.10						05/03/11 02:01
Radium 226 precision (±)		0.096	pCi/L							U
Radium 226 MDC		0.24	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0 Batch: R145601										
Sample ID: C11040476-010HMS		Sample Matrix Spike								
Thorium 230		9.0	pCi/L	102		70	130			05/05/11 14:45
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								
Thorium 230		10	pCi/L	114		70	130	12		05/05/11 14:45 47.8
Sample ID: LCS-29614		Laboratory Control Sample								
Thorium 230		11	pCi/L	119		70	130			05/05/11 14:45
Sample ID: MB-29614	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						05/05/11 14:45 U
Thorium 230 precision (±)		0.17	pCi/L							
Thorium 230 MDC		0.28	pCi/L							
Method: E908.0 Batch: RA-TH-ISO-1381										
Sample ID: LCS-RA-TH-ISO-1381		Laboratory Control Sample								
Thorium 230		5.6	pCi/L	100		70	130			05/09/11 14:40
Sample ID: C11040476-009DMS		Sample Matrix Spike								
Thorium 230		12	pCi/L	97		70	130			05/10/11 13:01
Sample ID: C11040476-009DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	87		70	130	8.1		05/10/11 13:01 37.6
Sample ID: MB-RA-TH-ISO-1381	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						05/10/11 13:01 U
Thorium 230 precision (±)		0.087	pCi/L							
Thorium 230 MDC		0.19	pCi/L							
Method: E908.0 Batch: RA-TH-ISO-1394										
Sample ID: LCS-RA-TH-ISO-1394		Laboratory Control Sample								
Thorium 230		5.4	pCi/L	95		70	130			06/01/11 08:51
Sample ID: C11040889-001DMS		Sample Matrix Spike								
Thorium 230		13	pCi/L	101		70	130			06/01/11 13:22
Sample ID: C11040889-001DMSD		Sample Matrix Spike Duplicate								
Thorium 230		14	pCi/L	107		70	130	4.9		06/01/11 13:22 36.4
Sample ID: MB-RA-TH-ISO-1394	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						06/01/11 13:22 U
Thorium 230 precision (±)		0.076	pCi/L							
Thorium 230 MDC		0.13	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0104		
Sample ID: T11040111-001DMSD	Sample Matrix Spike Duplicate					Run: SUB-T40681			05/31/11 16:39	
Lead 210	140	pCi/L		101	70	130	7.6	16		
Sample ID: T11040111-001DMS	Sample Matrix Spike					Run: SUB-T40681			05/31/11 14:28	
Lead 210	130	pCi/L		92	70	130				
Sample ID: LCS-PB-210-0104	Laboratory Control Sample					Run: SUB-T40681			05/31/11 03:31	
Lead 210	53	pCi/L		100	70	130				
Sample ID: MB-PB-210-0104	3	Method Blank				Run: SUB-T40681			05/31/11 01:19	
Lead 210		ND	pCi/L	0.80						U
Lead 210 precision (±)		0.95	pCi/L							
Lead 210 MDC		1.6	pCi/L							
Method: E909.0								Batch: T_13823		
Sample ID: T11040082-001HMSD	Sample Matrix Spike Duplicate					Run: SUB-T40682			05/22/11 20:05	
Lead 210	81	pCi/L		86	70	130	6.3	16		
Sample ID: MB-13823	3	Method Blank				Run: SUB-T40682			05/22/11 11:19	
Lead 210		1.3	pCi/L	0.80						U
Lead 210 precision (±)		5.6	pCi/L							
Lead 210 MDC		9.4	pCi/L							
Sample ID: LCS-13823	Laboratory Control Sample					Run: SUB-T40682			05/22/11 13:31	
Lead 210	260	pCi/L		73	70	130				
Sample ID: T11040082-001HMS	Sample Matrix Spike					Run: SUB-T40682			05/22/11 17:54	
Lead 210	86	pCi/L		93	70	130				

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/15/11

Project: Marsland Baseline Samples

Work Order: C11040429

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: 29614										
Sample ID: C11040476-010HMS		Sample Matrix Spike								
Polonium 210		6.3	pCi/L	117		70	130			05/06/11 08:47
Sample ID: C11040476-010HMSD		Sample Matrix Spike Duplicate								
Polonium 210		5.6	pCi/L	103		70	130	13		05/06/11 08:47 62.3
Sample ID: LCS-29614		Laboratory Control Sample								
Polonium 210		28	pCi/L	91		70	130			05/06/11 08:47
Sample ID: MB-29614	3	Method Blank								
Polonium 210		ND	pCi/L	0.30						05/06/11 11:02 U
Polonium 210 precision (±)		1.4	pCi/L							
Polonium 210 MDC		3.0	pCi/L							
Method: E912.0 Batch: PO210-0365										
Sample ID: C11040296-001EMS		Sample Matrix Spike								
Polonium 210		12	pCi/L	89		70	130			05/09/11 09:07
Sample ID: C11040296-001EMSD		Sample Matrix Spike Duplicate								
Polonium 210		17	pCi/L	127		70	130	35		05/09/11 09:07 67.6
Sample ID: MB-PO210-0365	3	Method Blank								
Polonium 210		ND	pCi/L	0.30						05/09/11 11:17 U
Polonium 210 precision (±)		0.23	pCi/L							
Polonium 210 MDC		0.58	pCi/L							
Sample ID: LCS-PO210-0365		Laboratory Control Sample								
Polonium 210		6.4	pCi/L	101		70	130			05/09/11 11:17

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11040429

Login completed by: Edith McPike
Reviewed by: BL2000\hackerman
Reviewed Date: 4/13/2011

Date Received: 4/13/2011

Received by: em

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 7.0°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples to be filtered and preserved for dissolved radionuclides in the laboratory. Samples for dissolved metals were subsampled, filtered and preserved with 2 mL HNO3 in lab upon receipt to pH <2.



Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Project Name, PWS, Permit, Etc.
Marsland Baseline Stream Samples

Sample Origin
State: Yes No

EPA/State Compliance:
Yes No

Company Name:
Crow Butte Resources, Inc.

Report Mail Address:
P.O. Box 169
Crawford, NE 69339

Contact Name:
Larry Teahon

Phone/Fax:
308-665-2341

Email:
daxmynus@msn.com

Sampler: (Please Print)
Brooke Bass
Rhonda Pelton

Quote/Bottle Order:

Invoice Address:
P.O. Box 169
Crawford, NE 69339

Invoice Contact & Phone:
Larry Teahon
308-665-2215 ext 114

Purchase Order:
1125

Special Report/Formats - ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POT/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC

Number of Containers	Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	Raw-UF Th230, U-nat, Ra226, Po210, Pb210	ANALYSIS REQUESTED						MATRIX	Collection Date	Collection Time
			HNO3-F, Metals	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	Raw-UF, Ra226, Po210 dis, sus	Raw-UF, Pb210 dis and sus			
1	N1 (Niobrara River West Site)	3g						Water	4-8-11		
2	N2 (Niobrara River East Site)	3g						Water	4-8-11		
3	Well #747 Manning		.5	1	1	1	1	Water	4-8-11		
4											
5											
6											
7											
8											
9											
10											

Comments:
NDEQ parameters for baseline sampling.
Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and $\mu\text{Ci/ml}$ and radiometrics as pCi/L.

Shipped by: WPCAD
Cooler ID(s): Various
Receipt Temp: 7.0 °C
On Ice: Yes No
Custody Seal Intact: Y N
Signature Match: Y N

Received by (print): Rhonda Pelton Date/Time: 4-11-2011
Received by (print): WPS Date/Time: _____
Received by (print): AMPH Date/Time: 4-13-11 9:20

Signature: _____
Signature: _____
Signature: _____

Sample Disposal: _____ Return to Client: No Yes Lab Disposal: YES

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

DATE: 4/18/11

No 2

ANALYST: LT

STANDARD CURVE DATA

	BL		.01	.05	.01		
Abs			.035	.174	.349		
Abs							

SAMPLE #	VOLUME	Df	Abs	No. 2 mg/lc
1	P217			
2	P224		.001	20.01
3	P246		.005	20.01
4	Ij 13p		.001	20.01
5	I 288p		.001	20.01
Dup	I 298p		.003	20.01
6	I 304p		.003	20.01
7	T 315p		.005	20.01
8	I 320p		.003	20.01
9	I 326p		.012	20.01
10	cm 1-1		.018	20.01
Dup	cm 1-10		.024	20.01
11	cm 1-11		.005	20.01
12	Manning		.006	20.01
13			.004	20.01
14	Dup P217		.001	20.01
15	Dup Ij 13p		.001	20.01
Dup	Dup 315		.010	20.01
16	Dup 1-10		.007	20.01
17	cm 1-1		.022	20.01
18	Manning		.003	20.01
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

June 20, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040726 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 6 samples for Crow Butte Resources on 4/22/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040726-001	Well 705	04/20/11 00:00	04/22/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11040726-002	Well 727	04/20/11 00:00	04/22/11	Aqueous	Same As Above
C11040726-003	Well 788	04/20/11 00:00	04/22/11	Aqueous	Same As Above
C11040726-004	BOW-8	04/19/11 00:00	04/22/11	Aqueous	Same As Above
C11040726-005	BOW-7	04/19/11 00:00	04/22/11	Aqueous	Same As Above
C11040726-006	BOW-4A	04/19/11 00:00	04/22/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040726

Report Date: 06/20/11

CASE NARRATIVE

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L. This is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-001
Client Sample ID: Well 705

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	149	mg/L		1		A2320 B	04/22/11 18:05 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	04/22/11 18:05 / jba
Bicarbonate as HCO ₃	182	mg/L		1		A2320 B	04/22/11 18:05 / jba
Calcium	34	mg/L		1		E200.7	05/13/11 13:34 / cp
Chloride	3	mg/L		1		E300.0	04/26/11 10:19 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/25/11 12:25 / jba
Magnesium	8	mg/L		1		E200.7	05/13/11 13:34 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/25/11 12:24 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L		0.1		E353.2	04/29/11 13:04 / dc
Potassium	4	mg/L		1		E200.7	05/13/11 13:34 / cp
Silica	72.4	mg/L		0.2		E200.7	05/19/11 13:14 / cp
Sodium	19	mg/L		1		E200.7	05/13/11 13:34 / cp
Sulfate	9	mg/L		1		E300.0	04/26/11 10:19 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	301	umhos/cm		1		A2510 B	04/22/11 16:01 / lr
pH	7.93	s.u.		0.01		A4500-H B	04/22/11 16:01 / lr
Solids, Total Dissolved TDS @ 180 C	234	mg/L		10		A2540 C	04/22/11 16:23 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:15 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/26/11 21:15 / sml
Barium	0.1	mg/L		0.1		E200.8	04/26/11 21:15 / sml
Boron	0.1	mg/L		0.1		E200.7	05/13/11 13:34 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:15 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:15 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:15 / sml
Iron	0.06	mg/L		0.03		E200.7	05/13/11 13:34 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:15 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:15 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:15 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:15 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:15 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/26/11 21:15 / sml
Uranium	0.0065	mg/L		0.0003		E200.8	04/26/11 21:15 / sml
Uranium, Activity	4.4E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:15 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:15 / sml
Zinc	0.10	mg/L		0.01		E200.7	05/13/11 13:34 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/30/11 07:19 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/30/11 07:19 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-001
Client Sample ID: Well 705

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/09/11 21:03 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/09/11 21:03 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/09/11 21:03 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/09/11 09:06 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/09/11 09:06 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/09/11 09:06 / ep
Radium 226	0.9	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/20/11 16:22 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/20/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/20/11 16:22 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 04:11 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	06/11/11 04:11 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 04:11 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:36 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.304	%				Calculation	05/25/11 07:48 / kbh
Anions	3.37	meq/L				Calculation	05/25/11 07:48 / kbh
Cations	3.35	meq/L				Calculation	05/25/11 07:48 / kbh
Solids, Total Dissolved Calculated	265	mg/L				Calculation	05/25/11 07:48 / kbh
TDS Balance (0.80 - 1.20)	0.880					Calculation	05/25/11 07:48 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-002
Client Sample ID: Well 727

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	159	mg/L		1		A2320 B	04/22/11 18:13 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/22/11 18:13 / jba
Bicarbonate as HCO3	194	mg/L		1		A2320 B	04/22/11 18:13 / jba
Calcium	31	mg/L		1		E200.7	05/13/11 13:46 / cp
Chloride	5	mg/L		1		E300.0	04/26/11 10:34 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/25/11 12:28 / jba
Magnesium	13	mg/L		1		E200.7	05/13/11 13:46 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	04/25/11 12:26 / dc
Nitrogen, Nitrate+Nitrite as N	1.3	mg/L		0.1		E353.2	04/29/11 13:06 / dc
Potassium	4	mg/L		1		E200.7	05/13/11 13:46 / cp
Silica	78.9	mg/L		0.2		E200.7	05/19/11 13:26 / cp
Sodium	19	mg/L		1		E200.7	05/13/11 13:46 / cp
Sulfate	9	mg/L		1		E300.0	04/26/11 10:34 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	324	umhos/cm		1		A2510 B	04/22/11 16:03 / lr
pH	8.05	s.u.		0.01		A4500-H B	04/22/11 16:03 / lr
Solids, Total Dissolved TDS @ 180 C	250	mg/L		10		A2540 C	04/22/11 16:24 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:22 / sml
Arsenic	0.002	mg/L		0.001		E200.8	04/26/11 21:22 / sml
Barium	ND	mg/L		0.1		E200.8	04/26/11 21:22 / sml
Boron	0.1	mg/L		0.1		E200.7	05/13/11 13:46 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:22 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:22 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:22 / sml
Iron	ND	mg/L		0.03		E200.7	05/13/11 13:46 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:22 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:22 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:22 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:22 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:22 / sml
Selenium	0.002	mg/L		0.001		E200.8	04/26/11 21:22 / sml
Uranium	0.0097	mg/L		0.0003		E200.8	04/26/11 21:22 / sml
Uranium, Activity	6.6E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:22 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:22 / sml
Zinc	0.28	mg/L		0.01		E200.7	05/13/11 13:46 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/30/11 07:40 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/30/11 07:40 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-002
Client Sample ID: Well 727

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/09/11 22:09 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/09/11 22:09 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/09/11 22:09 / eli-cs
Polonium 210	<0.8	pCi/L	U	0.8		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.8	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	0.1	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/20/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/20/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/20/11 16:22 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 05:17 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/11/11 05:17 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 05:17 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:36 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/09/11 14:36 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.03	%				Calculation	05/25/11 07:49 / kbh
Anions	3.62	meq/L				Calculation	05/25/11 07:49 / kbh
Cations	3.54	meq/L				Calculation	05/25/11 07:49 / kbh
Solids, Total Dissolved Calculated	283	mg/L				Calculation	05/25/11 07:49 / kbh
TDS Balance (0.80 - 1.20)	0.880					Calculation	05/25/11 07:49 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-003
Client Sample ID: Well 788

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	152	mg/L		1		A2320 B	04/22/11 18:20 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	04/22/11 18:20 / jba
Bicarbonate as HCO ₃	185	mg/L		1		A2320 B	04/22/11 18:20 / jba
Calcium	34	mg/L		1		E200.7	05/13/11 13:54 / cp
Chloride	3	mg/L		1		E300.0	04/26/11 10:49 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	04/25/11 12:34 / jba
Magnesium	9	mg/L		1		E200.7	05/13/11 13:54 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/25/11 12:28 / dc
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	04/29/11 13:09 / dc
Potassium	4	mg/L		1		E200.7	05/13/11 13:54 / cp
Silica	69.5	mg/L		0.2		E200.7	05/19/11 13:34 / cp
Sodium	19	mg/L		1		E200.7	05/13/11 13:54 / cp
Sulfate	7	mg/L		1		E300.0	04/26/11 10:49 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	308	umhos/cm		1		A2510 B	04/22/11 16:05 / lr
pH	8.02	s.u.		0.01		A4500-H B	04/22/11 16:05 / lr
Solids, Total Dissolved TDS @ 180 C	235	mg/L		10		A2540 C	04/22/11 16:24 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:29 / sml
Arsenic	0.003	mg/L		0.001		E200.8	04/26/11 21:29 / sml
Barium	0.1	mg/L		0.1		E200.8	04/26/11 21:29 / sml
Boron	ND	mg/L		0.1		E200.7	05/13/11 13:54 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:29 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:29 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:29 / sml
Iron	ND	mg/L		0.03		E200.7	05/13/11 13:54 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:29 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:29 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:29 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:29 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:29 / sml
Selenium	0.001	mg/L		0.001		E200.8	04/26/11 21:29 / sml
Uranium	0.0071	mg/L		0.0003		E200.8	04/26/11 21:29 / sml
Uranium, Activity	4.8E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:29 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:29 / sml
Zinc	0.04	mg/L		0.01		E200.7	05/13/11 13:54 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/30/11 07:44 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/30/11 07:44 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-003
Client Sample ID: Well 788

Report Date: 06/20/11
Collection Date: 04/20/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/09/11 23:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/09/11 23:15 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/09/11 23:15 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	05/09/11 09:07 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/09/11 09:07 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	05/09/11 09:07 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/20/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/20/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/20/11 16:22 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 06:23 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	06/11/11 06:23 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 06:23 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:36 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/09/11 14:36 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:36 / dmf
DATA QUALITY							
A/C Balance (± 5)	-0.665	%				Calculation	05/25/11 07:50 / kbh
Anions	3.44	meq/L				Calculation	05/25/11 07:50 / kbh
Cations	3.39	meq/L				Calculation	05/25/11 07:50 / kbh
Solids, Total Dissolved Calculated	265	mg/L				Calculation	05/25/11 07:50 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	05/25/11 07:50 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-004
Client Sample ID: BOW-8

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	182	mg/L		1		A2320 B	04/22/11 18:29 / jba
Carbonate as CO ₃	24	mg/L		1		A2320 B	04/22/11 18:29 / jba
Bicarbonate as HCO ₃	172	mg/L		1		A2320 B	04/22/11 18:29 / jba
Calcium	8	mg/L		1		E200.7	05/13/11 13:58 / cp
Chloride	13	mg/L		1		E300.0	04/26/11 11:05 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/25/11 12:49 / jba
Magnesium	ND	mg/L		1		E200.7	05/13/11 13:58 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	04/25/11 12:30 / dc
Nitrogen, Nitrate+Nitrite as N	0.6	mg/L		0.1		E353.2	04/29/11 13:11 / dc
Potassium	12	mg/L		1		E200.7	05/13/11 13:58 / cp
Silica	76.3	mg/L		0.2		E200.7	05/19/11 13:38 / cp
Sodium	90	mg/L		1		E200.7	05/13/11 13:58 / cp
Sulfate	24	mg/L		1		E300.0	04/26/11 11:05 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	428	umhos/cm		1		A2510 B	04/22/11 16:06 / lr
pH	9.15	s.u.		0.01		A4500-H B	04/22/11 16:06 / lr
Solids, Total Dissolved TDS @ 180 C	326	mg/L		10		A2540 C	04/22/11 16:24 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:36 / sml
Arsenic	0.005	mg/L		0.001		E200.8	04/26/11 21:36 / sml
Barium	ND	mg/L		0.1		E200.8	04/26/11 21:36 / sml
Boron	ND	mg/L		0.1		E200.7	05/13/11 13:58 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:36 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:36 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:36 / sml
Iron	ND	mg/L		0.03		E200.7	05/13/11 13:58 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:36 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:36 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:36 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:36 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:36 / sml
Selenium	ND	mg/L		0.001		E200.8	04/26/11 21:36 / sml
Uranium	0.0070	mg/L		0.0003		E200.8	04/26/11 21:36 / sml
Uranium, Activity	4.7E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:36 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:36 / sml
Zinc	0.01	mg/L		0.01		E200.7	05/13/11 13:58 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/30/11 07:48 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/30/11 07:48 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-004
Client Sample ID: BOW-8

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/10/11 00:21 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/10/11 00:21 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/10/11 00:21 / eli-cs
Polonium 210	<1.1	pCi/L	U	1.1		E912.0	05/09/11 11:17 / ep
Polonium 210 precision (±)	0.9	pCi/L				E912.0	05/09/11 11:17 / ep
Polonium 210 MDC	1.1	pCi/L				E912.0	05/09/11 11:17 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/20/11 16:22 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/20/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/20/11 16:22 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 07:29 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/11/11 07:29 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 07:29 / eli-cs
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.4	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:37 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	05/09/11 14:37 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.853	%				Calculation	05/25/11 07:50 / kbh
Anions	4.57	meq/L				Calculation	05/25/11 07:50 / kbh
Cations	4.65	meq/L				Calculation	05/25/11 07:50 / kbh
Solids, Total Dissolved Calculated	356	mg/L				Calculation	05/25/11 07:50 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	05/25/11 07:50 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-005
Client Sample ID: BOW-7

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	185	mg/L		1		A2320 B	04/22/11 18:38 / jba
Carbonate as CO ₃	21	mg/L		1		A2320 B	04/22/11 18:38 / jba
Bicarbonate as HCO ₃	182	mg/L		1		A2320 B	04/22/11 18:38 / jba
Calcium	5	mg/L		1		E200.7	05/13/11 14:02 / cp
Chloride	28	mg/L		1		E300.0	04/26/11 11:20 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	04/25/11 12:58 / jba
Magnesium	ND	mg/L		1		E200.7	05/13/11 14:02 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	05/04/11 12:25 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	04/29/11 13:21 / dc
Potassium	10	mg/L		1		E200.7	05/13/11 14:02 / cp
Silica	76.9	mg/L		0.2		E200.7	05/19/11 13:42 / cp
Sodium	119	mg/L		1		E200.7	05/13/11 14:02 / cp
Sulfate	54	mg/L	D	2		E300.0	04/26/11 11:20 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	540	umhos/cm		1		A2510 B	04/22/11 16:08 / lr
pH	9.00	s.u.		0.01		A4500-H B	04/22/11 16:08 / lr
Solids, Total Dissolved TDS @ 180 C	411	mg/L		10		A2540 C	04/22/11 16:25 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:43 / sml
Arsenic	0.029	mg/L		0.001		E200.8	04/26/11 21:43 / sml
Barium	ND	mg/L		0.1		E200.8	04/26/11 21:43 / sml
Boron	0.1	mg/L		0.1		E200.7	05/13/11 14:02 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:43 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:43 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:43 / sml
Iron	ND	mg/L		0.03		E200.7	05/13/11 14:02 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:43 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:43 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:43 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:43 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:43 / sml
Selenium	0.220	mg/L		0.001		E200.8	04/26/11 21:43 / sml
Uranium	0.0049	mg/L		0.0003		E200.8	04/26/11 21:43 / sml
Uranium, Activity	3.3E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:43 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:43 / sml
Zinc	0.01	mg/L		0.01		E200.7	05/13/11 14:02 / cp
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	04/30/11 07:52 / sml
Uranium, Activity	3.2E-10	uCi/mL		2.0E-10		E200.8	04/30/11 07:52 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-005
Client Sample ID: BOW-7

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/10/11 01:27 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/10/11 01:27 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/10/11 01:27 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/09/11 11:17 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/09/11 11:17 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/09/11 11:17 / ep
Radium 226	0.5	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/20/11 16:22 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/20/11 16:22 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/20/11 16:22 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 08:35 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	06/11/11 08:35 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 08:35 / eli-cs
Polonium 210	0.5	pCi/L		0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	0.2	pCi/L		0.1		E908.0	05/09/11 14:37 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.159	%				Calculation	05/25/11 07:50 / kbh
Anions	5.71	meq/L				Calculation	05/25/11 07:50 / kbh
Cations	5.73	meq/L				Calculation	05/25/11 07:50 / kbh
Solids, Total Dissolved Calculated	430	mg/L				Calculation	05/25/11 07:50 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	05/25/11 07:50 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-006
Client Sample ID: BOW-4A

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	131	mg/L		1		A2320 B	04/22/11 18:47 / jba
Carbonate as CO ₃	32	mg/L		1		A2320 B	04/22/11 18:47 / jba
Bicarbonate as HCO ₃	95	mg/L		1		A2320 B	04/22/11 18:47 / jba
Calcium	7	mg/L		1		E200.7	05/13/11 14:18 / cp
Chloride	33	mg/L		1		E300.0	04/26/11 12:07 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	04/25/11 13:02 / jba
Magnesium	ND	mg/L		1		E200.7	05/13/11 14:18 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	05/04/11 12:27 / dc
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	04/29/11 13:24 / dc
Potassium	9	mg/L		1		E200.7	05/13/11 14:18 / cp
Silica	70.6	mg/L		0.2		E200.7	05/19/11 13:47 / cp
Sodium	95	mg/L		1		E200.7	05/13/11 14:18 / cp
Sulfate	50	mg/L		1		E300.0	04/26/11 12:07 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	474	umhos/cm		1		A2510 B	04/22/11 16:09 / lr
pH	9.40	s.u.		0.01		A4500-H B	04/22/11 16:09 / lr
Solids, Total Dissolved TDS @ 180 C	345	mg/L		10		A2540 C	04/22/11 16:26 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	04/26/11 21:49 / sml
Arsenic	0.014	mg/L		0.001		E200.8	04/26/11 21:49 / sml
Barium	ND	mg/L		0.1		E200.8	04/26/11 21:49 / sml
Boron	0.1	mg/L		0.1		E200.7	05/13/11 14:18 / cp
Cadmium	ND	mg/L		0.005		E200.8	04/26/11 21:49 / sml
Chromium	ND	mg/L		0.05		E200.8	04/26/11 21:49 / sml
Copper	ND	mg/L		0.01		E200.8	04/26/11 21:49 / sml
Iron	ND	mg/L		0.03		E200.7	05/13/11 14:18 / cp
Lead	ND	mg/L		0.001		E200.8	04/26/11 21:49 / sml
Manganese	ND	mg/L		0.01		E200.8	04/26/11 21:49 / sml
Mercury	ND	mg/L		0.001		E200.8	04/26/11 21:49 / sml
Molybdenum	ND	mg/L		0.1		E200.8	04/26/11 21:49 / sml
Nickel	ND	mg/L		0.05		E200.8	04/26/11 21:49 / sml
Selenium	0.011	mg/L		0.001		E200.8	04/26/11 21:49 / sml
Uranium	0.0053	mg/L		0.0003		E200.8	04/26/11 21:49 / sml
Uranium, Activity	3.6E-09	uCi/mL		2.0E-10		E200.8	04/26/11 21:49 / sml
Vanadium	ND	mg/L		0.1		E200.8	04/26/11 21:49 / sml
Zinc	0.01	mg/L		0.01		E200.7	05/13/11 14:18 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	04/30/11 07:56 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	04/30/11 07:56 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040726-006
Client Sample ID: BOW-4A

Report Date: 06/20/11
Collection Date: 04/19/11
Date Received: 04/22/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.9	pCi/L	U	1.9		E909.0	06/13/11 10:19 / eli-cs
Lead 210 precision (±)	1.1	pCi/L				E909.0	06/13/11 10:19 / eli-cs
Lead 210 MDC	1.9	pCi/L				E909.0	06/13/11 10:19 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	05/09/11 11:17 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/09/11 11:17 / ep
Polonium 210 MDC	0.7	pCi/L				E912.0	05/09/11 11:17 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/23/11 09:10 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/23/11 09:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/23/11 09:10 / dmf
- See Case Narrative regarding Pb210 analysis.							
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/11/11 09:41 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/11/11 09:41 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/11/11 09:41 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/05/11 11:49 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/05/11 11:49 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/05/11 11:49 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/11/11 10:48 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	05/11/11 10:48 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/11/11 10:48 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/09/11 14:37 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/09/11 14:37 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/09/11 14:37 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.755	%				Calculation	05/25/11 07:51 / kbh
Anions	4.70	meq/L				Calculation	05/25/11 07:51 / kbh
Cations	4.77	meq/L				Calculation	05/25/11 07:51 / kbh
Solids, Total Dissolved Calculated	368	mg/L				Calculation	05/25/11 07:51 / kbh
TDS Balance (0.80 - 1.20)	0.940					Calculation	05/25/11 07:51 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R145099
Sample ID: MBLK										
	3	Method Blank								Run: MANTECH_110422A 04/22/11 15:42
Alkalinity, Total as CaCO3		2.86	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		3.48	mg/L	1.0						
Sample ID: LCS										
		Laboratory Control Sample								Run: MANTECH_110422A 04/22/11 15:59
Alkalinity, Total as CaCO3		214	mg/L	5.0	106	90	110			
Sample ID: C11040680-001BDUP										
		Sample Duplicate								Run: MANTECH_110422A 04/22/11 16:54
Alkalinity, Total as CaCO3		536	mg/L	5.0				0.7	10	
Sample ID: C11040680-001BMS										
		Sample Matrix Spike								Run: MANTECH_110422A 04/22/11 17:03
Alkalinity, Total as CaCO3		670	mg/L	5.0	111	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110422A		
Sample ID: ICV2_110422_1	Initial Calibration Verification Standard									04/22/11 14:44
Conductivity @ 25 C		1380	umhos/cm	1.0	97	90	110			
Method: A2510 B								Batch: 110422_1_PH-W_555A-2		
Sample ID: MBLK1_110422_1	Method Blank									04/22/11 14:40
Conductivity @ 25 C		ND	umhos/cm	1.0						
Sample ID: C11040726-006BDUP	Sample Duplicate									04/22/11 16:11
Conductivity @ 25 C		475	umhos/cm	1.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110422_1_SLDS-TDS-W		
Sample ID: MBLK1_110422		Method Blank					Run: BAL-1_110422B			04/22/11 16:09
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_110422		Laboratory Control Sample					Run: BAL-1_110422B			04/22/11 16:09
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C11040726-005ADUP		Sample Duplicate					Run: BAL-1_110422B			04/22/11 16:25
Solids, Total Dissolved TDS @ 180 C		400	mg/L	10				2.6	10	
Sample ID: C11040726-006AMS		Sample Matrix Spike					Run: BAL-1_110422B			04/22/11 16:26
Solids, Total Dissolved TDS @ 180 C		2410	mg/L	10	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-F C										Batch: R145123	
Sample ID: MBLK		Method Blank								Run: MANTECH_110425A	04/25/11 10:38
Fluoride		ND	mg/L	0.10							
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110425A	04/25/11 10:40
Fluoride		1.00	mg/L	0.10	98	90	110				
Sample ID: C11040726-004BMS		Sample Matrix Spike								Run: MANTECH_110425A	04/25/11 12:52
Fluoride		1.49	mg/L	0.10	100	80	120				
Sample ID: C11040726-004BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110425A	04/25/11 12:55
Fluoride		1.49	mg/L	0.10	100	80	120	0.0	10		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110422A		
Sample ID: ICV1_110422_1		Initial Calibration Verification Standard						04/22/11 14:42		
pH		6.91	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110422_1_PH-W_555A-2		
Sample ID: C11040726-006BDUP		Sample Duplicate				Run: ORION555A-2_110422A		04/22/11 16:11		
pH		9.40	s.u.	0.010				0.0	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/20/11

Project: Marsland Baseline Samples

Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										
Batch: R145125										
Sample ID: MBLK-1		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.050						Run: TECHNICON_110425A 04/25/11 11:32
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Ammonia as N		2.01	mg/L	0.050	100	90	110			Run: TECHNICON_110425A 04/25/11 11:34
Sample ID: C11040646-001EMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.96	mg/L	0.050	95	80	120			Run: TECHNICON_110425A 04/25/11 12:16
Sample ID: C11040646-001EMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		1.97	mg/L	0.050	96	80	120	0.5	10	Run: TECHNICON_110425A 04/25/11 12:18
Method: A4500-NH3 G										
Batch: R145477										
Sample ID: MBLK-6		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.050						Run: TECHNICON_110504A 05/04/11 12:21
Sample ID: LCS-7		Laboratory Control Sample								
Nitrogen, Ammonia as N		1.94	mg/L	0.050	97	90	110			Run: TECHNICON_110504A 05/04/11 12:23
Sample ID: C11040852-001DMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.79	mg/L	0.050	91	80	120			Run: TECHNICON_110504A 05/04/11 12:35
Sample ID: C11040852-001DMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		1.80	mg/L	0.050	92	80	120	0.6	10	Run: TECHNICON_110504A 05/04/11 12:37

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/20/11

Project: Marsland Baseline Samples

Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R145849										
Sample ID: MB-110513A	7	Method Blank								
Run: ICP2-C_110513A										
05/13/11 12:21										
Boron		ND	mg/L	0.10						
Calcium		ND	mg/L	1.0						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Sodium		ND	mg/L	1.0						
Zinc		ND	mg/L	0.010						
Sample ID: LFB-110513A	7	Laboratory Fortified Blank								
Run: ICP2-C_110513A										
05/13/11 12:25										
Boron		0.937	mg/L	0.10	94	85	115			
Calcium		48.0	mg/L	0.50	96	85	115			
Iron		0.964	mg/L	0.030	96	85	115			
Magnesium		47.1	mg/L	0.50	94	85	115			
Potassium		43.7	mg/L	0.50	87	85	115			
Sodium		51.1	mg/L	0.50	102	85	115			
Zinc		0.944	mg/L	0.010	94	85	115			
Sample ID: C11040726-001CMS2	7	Sample Matrix Spike								
Run: ICP2-C_110513A										
05/13/11 13:38										
Boron		2.01	mg/L	0.10	93	70	130			
Calcium		130	mg/L	1.0	94	70	130			
Iron		2.05	mg/L	0.030	98	70	130			
Magnesium		106	mg/L	1.0	95	70	130			
Potassium		90.4	mg/L	1.0	84	70	130			
Sodium		119	mg/L	1.0	98	70	130			
Zinc		2.03	mg/L	0.010	94	70	130			
Sample ID: C11040726-001CMSD	7	Sample Matrix Spike Duplicate								
Run: ICP2-C_110513A										
05/13/11 13:42										
Boron		1.99	mg/L	0.10	92	70	130	1.0	20	
Calcium		131	mg/L	1.0	95	70	130	0.9	20	
Iron		2.03	mg/L	0.030	97	70	130	1.0	20	
Magnesium		106	mg/L	1.0	96	70	130	0.2	20	
Potassium		90.6	mg/L	1.0	85	70	130	0.2	20	
Sodium		116	mg/L	1.0	95	70	130	2.6	20	
Zinc		2.01	mg/L	0.010	93	70	130	1.1	20	
Method: E200.7										
Batch: R146055										
Sample ID: MB-110519A		Method Blank								
Run: ICP2-C_110519A										
05/19/11 12:44										
Silicon		ND	mg/L	0.10						
Sample ID: LFB-110519A		Laboratory Fortified Blank								
Run: ICP2-C_110519A										
05/19/11 12:48										
Silicon		0.489	mg/L	0.10	98	85	115			
Sample ID: C11040726-001CMS2		Sample Matrix Spike								
Run: ICP2-C_110519A										
05/19/11 13:18										
Silicon		33.2	mg/L	0.10		70	130			A
Sample ID: C11040726-001CMSD		Sample Matrix Spike Duplicate								
Run: ICP2-C_110519A										
05/19/11 13:22										
Silicon		33.0	mg/L	0.10		70	130	0.5	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/20/11

Project: Marsland Baseline Samples

Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R145209
Sample ID: LRB	14	Method Blank					Run: ICPMS2-C_110426A			04/26/11 10:12
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Lead		ND	mg/L	0.0010						
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Selenium		ND	mg/L	0.0010						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Sample ID: LFB	14	Laboratory Fortified Blank					Run: ICPMS2-C_110426A			04/26/11 10:19
Aluminum		0.0437	mg/L	0.0010	87	85	115			
Arsenic		0.0490	mg/L	0.0010	98	85	115			
Barium		0.0486	mg/L	0.0010	97	85	115			
Cadmium		0.0486	mg/L	0.0010	97	85	115			
Chromium		0.0496	mg/L	0.0010	99	85	115			
Copper		0.0472	mg/L	0.0010	94	85	115			
Lead		0.0489	mg/L	0.0010	98	85	115			
Manganese		0.0492	mg/L	0.0010	98	85	115			
Mercury		0.00488	mg/L	0.0010	98	85	115			
Molybdenum		0.0490	mg/L	0.0010	98	85	115			
Nickel		0.0480	mg/L	0.0010	96	85	115			
Selenium		0.0482	mg/L	0.0010	96	85	115			
Uranium		0.0501	mg/L	0.00030	100	85	115			
Vanadium		0.0495	mg/L	0.0010	99	85	115			
Sample ID: C11040726-006CMS4	14	Sample Matrix Spike					Run: ICPMS2-C_110426A			04/26/11 21:56
Aluminum		0.0674	mg/L	0.0010	112	70	130			
Arsenic		0.0645	mg/L	0.0010	102	70	130			
Barium		0.0731	mg/L	0.0010	100	70	130			
Cadmium		0.0492	mg/L	0.010	99	70	130			
Chromium		0.0533	mg/L	0.050	97	70	130			
Copper		0.0488	mg/L	0.010	97	70	130			
Lead		0.0497	mg/L	0.0010	99	70	130			
Manganese		0.0492	mg/L	0.010	98	70	130			
Mercury		0.00491	mg/L	0.0010	98	70	130			
Molybdenum		0.0543	mg/L	0.0010	98	70	130			
Nickel		0.0477	mg/L	0.0010	95	70	130			
Selenium		0.0597	mg/L	0.0010	96	70	130			
Uranium		0.0558	mg/L	0.00030	101	70	130			
Vanadium		0.0607	mg/L	0.0010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R145209		
Sample ID: C11040726-006CMSD		14 Sample Matrix Spike Duplicate			Run: ICPMS2-C_110426A			04/26/11 22:30		
Aluminum		0.0507	mg/L	0.0010	78	70	130	28	20	R
Arsenic		0.0637	mg/L	0.0010	100	70	130	1.3	20	
Barium		0.0729	mg/L	0.0010	100	70	130	0.3	20	
Cadmium		0.0491	mg/L	0.010	98	70	130	0.3	20	
Chromium		0.0527	mg/L	0.050	96	70	130	1.0	20	
Copper		0.0480	mg/L	0.010	95	70	130	1.6	20	
Lead		0.0496	mg/L	0.0010	99	70	130	0.1	20	
Manganese		0.0487	mg/L	0.010	97	70	130	1.0	20	
Mercury		0.00488	mg/L	0.0010	98	70	130	0.6	20	
Molybdenum		0.0534	mg/L	0.0010	96	70	130	1.7	20	
Nickel		0.0482	mg/L	0.0010	96	70	130	1.0	20	
Selenium		0.0591	mg/L	0.0010	95	70	130	0.9	20	
Uranium		0.0557	mg/L	0.00030	101	70	130	0.3	20	
Vanadium		0.0601	mg/L	0.0010	98	70	130	1.1	20	
Method: E200.8								Batch: 29662		
Sample ID: MB-29662		Method Blank			Run: ICPMS2-C_110429A			04/30/11 06:17		
Uranium		ND	pCi/Filter	0.00030						
Sample ID: LCS2-29662		Laboratory Control Sample			Run: ICPMS2-C_110429A			04/30/11 06:21		
Uranium		0.103	pCi/Filter	0.00030	103	85	115			
Sample ID: C11040726-006HMS		Sample Matrix Spike			Run: ICPMS2-C_110429A			04/30/11 08:01		
Uranium		0.00449	mg/L	0.0010	100	70	130			
Sample ID: C11040726-006HMSD		Sample Matrix Spike Duplicate			Run: ICPMS2-C_110429A			04/30/11 08:05		
Uranium		0.00450	mg/L	0.0010	101	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110425A		
Sample ID: ICV-110425	2	Initial Calibration Verification Standard								04/25/11 15:18
Chloride		9.88	mg/L	1.0	99	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			
Method: E300.0								Batch: R145190		
Sample ID: ICB-110425	2	Method Blank					Run: IC2-C_110425A			04/25/11 15:33
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	1.0						
Sample ID: LFB-110425	2	Laboratory Fortified Blank					Run: IC2-C_110425A			04/25/11 15:48
Chloride		9.67	mg/L	1.0	97	90	110			
Sulfate		39.7	mg/L	1.0	99	90	110			
Sample ID: C11040726-005BMS	2	Sample Matrix Spike					Run: IC2-C_110425A			04/26/11 11:36
Chloride		45.7	mg/L	1.0	94	80	120			
Sulfate		131	mg/L	1.6	100	80	120			
Sample ID: C11040726-005BMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110425A			04/26/11 11:51
Chloride		45.6	mg/L	1.0	94	80	120	0.3	10	
Sulfate		130	mg/L	1.6	99	80	120	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R145338
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110429A
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						04/29/11 11:59
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110429A
Nitrogen, Nitrate+Nitrite as N		2.63	mg/L	0.10	105	90	110			04/29/11 12:01
Sample ID: C11040728-002BMS		Sample Matrix Spike								Run: TECHNICON_110429A
Nitrogen, Nitrate+Nitrite as N		2.37	mg/L	0.10	104	90	110			04/29/11 13:34
Sample ID: C11040728-002BMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110429A
Nitrogen, Nitrate+Nitrite as N		2.42	mg/L	0.10	106	90	110	2.1	10	04/29/11 13:36

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: RA226-5340										
Sample ID: LCS-29662		Laboratory Control Sample								
Radium 226		0.0090	pCi/g-dry		73	70	130			05/11/11 10:48
Sample ID: MB-29662	3	Method Blank								
Radium 226		ND	pCi/g-dry	0.10						U
Radium 226 precision (±)		0.00014	pCi/g-dry							
Radium 226 MDC		0.00035	pCi/g-dry							
Sample ID: C11040750-008AMS		Sample Matrix Spike								
Radium 226		1.0	pCi/g-dry		97	70	130			05/11/11 12:48
Sample ID: C11040750-008AMSD		Sample Matrix Spike Duplicate								
Radium 226		1.0	pCi/g-dry		96	70	130	0.5	23.4	05/11/11 14:25
Method: E903.0 Batch: RA226-5335										
Sample ID: C11040726-006DMS		Sample Matrix Spike								
Radium 226		6.3	pCi/L		96	70	130			05/09/11 16:29
Sample ID: C11040726-006DMSD		Sample Matrix Spike Duplicate								
Radium 226		5.5	pCi/L		84	70	130	13	26	05/09/11 16:29
Sample ID: MB-RA226-5335	3	Method Blank								
Radium 226		0.15	pCi/L	0.10						U
Radium 226 precision (±)		0.093	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: LCS-RA226-5335		Laboratory Control Sample								
Radium 226		5.7	pCi/L		88	85	115			05/09/11 21:59

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										
Batch: R146350										
Sample ID: LCS-29539		Laboratory Control Sample								
Thorium 230		11	pCi/L	108		70	130			05/09/11 14:36
Sample ID: MB-29539	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						U
Thorium 230 precision (±)		0.20	pCi/L							
Thorium 230 MDC		0.40	pCi/L							
Sample ID: C11040726-006HMS		Sample Matrix Spike								
Thorium 230		9.9	pCi/L	116		70	130			05/09/11 14:37
Sample ID: C11040726-006HMSD		Sample Matrix Spike Duplicate								
Thorium 230		8.4	pCi/L	97		70	130	16	48.1	05/09/11 14:36
Method: E908.0										
Batch: RA-TH-ISO-1391										
Sample ID: LCS-RA-TH-ISO-1391		Laboratory Control Sample								
Thorium 230		5.2	pCi/L	91		70	130			05/20/11 16:22
Sample ID: C11040726-003DMS		Sample Matrix Spike								
Thorium 230		11	pCi/L	101		70	130			05/20/11 16:22
Sample ID: C11040726-003DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	96		70	130	5.1	39	05/20/11 16:22
Sample ID: MB-RA-TH-ISO-1391	3	Method Blank								
Thorium 230		ND	pCi/L	0.090						U
Thorium 230 precision (±)		0.093	pCi/L							
Thorium 230 MDC		0.15	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/20/11

Project: Marsland Baseline Samples

Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0106		
Sample ID: T11040117-004GMSD		Sample Matrix Spike Duplicate								
Lead 210		160	pCi/L		106	70	130	9.8	16.7	
Sample ID: MB-PB-210-0106	3	Method Blank								
Lead 210		ND	pCi/L	0.90						U
Lead 210 precision (±)		1.0	pCi/L							
Lead 210 MDC		1.7	pCi/L							
Sample ID: LCS-PB-210-0106		Laboratory Control Sample								
Lead 210		54	pCi/L		99	70	130			06/09/11 01:13
Sample ID: T11040117-004GMS		Sample Matrix Spike								
Lead 210		150	pCi/L		96	70	130			06/09/11 03:26
Method: E909.0								Batch: T_13936		
Sample ID: MB-13936	3	Method Blank								
Lead 210		ND	pCi/Filter	0.90						U
Lead 210 precision (±)		6.19	pCi/Filter							
Lead 210 MDC		10.6	pCi/Filter							
Sample ID: LCS-13936		Laboratory Control Sample								
Lead 210		305	pCi/Filter		87	70	130			06/10/11 17:10
Sample ID: C11040613-001AMS		Sample Matrix Spike								
Lead 210		1030	pCi/Filter		92	70	130			06/10/11 19:22
Sample ID: C11040613-001AMSD		Sample Matrix Spike Duplicate								
Lead 210		1010	pCi/Filter		88	70	130	1.9	16.6	06/10/11 20:28
Method: E909.0								Batch: T_PB-210-0107		
Sample ID: C11040726-006FMSD		Sample Matrix Spike Duplicate								
Lead 210		100	pCi/L		95	70	130	4.8	16.8	06/13/11 12:31
Sample ID: MB-PB-210-0107	3	Method Blank								
Lead 210		ND	pCi/L	0.90						U
Lead 210 precision (±)		0.99	pCi/L							
Lead 210 MDC		1.7	pCi/L							
Sample ID: LCS-PB-210-0107		Laboratory Control Sample								
Lead 210		53	pCi/L		98	70	130			06/13/11 09:13
Sample ID: C11040726-006FMS		Sample Matrix Spike								
Lead 210		110	pCi/L		99	70	130			06/13/11 11:25

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/20/11
Work Order: C11040726

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: R146175
Sample ID: C11040296-001HMS		Sample Matrix Spike								
Polonium 210		5.3	pCi/L		100	70	130			05/05/11 08:57
Sample ID: C11040296-001HMSD		Sample Matrix Spike Duplicate								
Polonium 210		5.7	pCi/L		108	70	130	7.9	67.5	05/05/11 11:49
Sample ID: LCS-29539		Laboratory Control Sample								
Polonium 210		0.43	pCi/L			70	130			05/05/11 11:49 US
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: MB-29539	3	Method Blank								
Polonium 210		0.32	pCi/L	0.20						05/05/11 11:49 U
Polonium 210 precision (±)		1.1	pCi/L							
Polonium 210 MDC		2.0	pCi/L							
Method: E912.0										Batch: PO210-0365
Sample ID: C11040296-001EMS		Sample Matrix Spike								
Polonium 210		12	pCi/L		89	70	130			05/09/11 09:07
Sample ID: C11040296-001EMSD		Sample Matrix Spike Duplicate								
Polonium 210		17	pCi/L		127	70	130	35	67.6	05/09/11 09:07
Sample ID: MB-PO210-0365	3	Method Blank								
Polonium 210		ND	pCi/L	0.20						05/09/11 11:17 U
Polonium 210 precision (±)		0.23	pCi/L							
Polonium 210 MDC		0.58	pCi/L							
Sample ID: LCS-PO210-0365		Laboratory Control Sample								
Polonium 210		6.4	pCi/L		101	70	130			05/09/11 11:17

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11040726

Login completed by: Edith McPike
Reviewed by: BL2000\cwagner
Reviewed Date: 4/25/2011

Date Received: 4/22/2011

Received by: jba

Carrier Next Day Air Saver
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 8.6°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved as necessary for dissolved Radionuclides.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc. Report Mail Address: P.O. Box 169 Crawford, NE 69339 Invoice Address: P.O. Box 169 Crawford, NE 69339	Project Name: Marsland Baseline Samples Contact Name: Larry Teahon Phone/Fax: 308-665-2341 Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114	Sample Origin State: Email: daxmynus@msn.com Purchase Order: 1125	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Brooke Bass Rhonda Pelton Quote/Bottle Order:
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED Normal Turbidity (TAT) R U S H Contact ELI prior to RUSH sample submittal for charges and scheduling - See instruction Page Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L. Please report 5/25/11 Please report 5/25/11 Please report 5/25/11 Please report 5/25/11 Please report 5/25/11 Please report 5/25/11	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		LABORATORY USE ONLY Shipped by: UPS Cooler ID(s): Receipt Temp: 21.0 °C On top: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal Intact: Y N Signature Match: Y N	
SAMPLE IDENTIFICATION (Name, Location, interval, etc.)	Collection Date	Collection Time	MATRIX
1 Well 705	4/20/11		Water
2 Well 727	4/20/11		Water
3 Well 788	4/20/11		Water
4 BOW-8	4/19/11		Water
5 BOW-7	4/19/11		Water
6 BOW-4A	4/19/11		Water
7			
8			
9			
10			
Custody Record MUST be Signed		Signature: Brooke Bass Date/Time: 4/21/11 10:30	Signature: Brooke Bass Date/Time: 4/21/11 10:30
Sample Disposal: Return to Client: No Lab Disposal: YES		Received by (print): Signature: [Signature] Date/Time: 4/21/11 9:30	Received by (print): Signature: [Signature] Date/Time: 4/21/11 9:30

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 4/20/11

ANALYST: _____

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.1			
Abs	0	0.033	0.169	0.336			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 705	10 ml	1	0.013	<0.01
2 727	10 ml	1	-0.002	<0.01
3 788	10 ml	1	-0.001	<0.01
4				
5 788 Dup	10 ml	1	-0.001	<0.01
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 4/19/11

ANALYST: _____

STANDARD CURVE DATA

NO ₂ ⁻	BL	0.01	0.05	0.10			
Abs	0	.034	.173	.344			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 BOW 4-A	10 ml	1	0.330	0.1
2 BOW 7	10 ml	1	0.306	0.09
3 BOW 8	10 ml	1	0.004	<0.01
4				
5 BOW 8 Dup	10 ml	1	0.006	<0.01
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

June 23, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11040852 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 1 sample for Crow Butte Resources on 4/28/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11040852-001	Well 747	04/25/11 00:00	04/28/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11040852

Report Date: 06/23/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040852-001
Client Sample ID: Well 747

Report Date: 06/23/11
Collection Date: 04/25/11
Date Received: 04/28/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	132	mg/L		1		A2320 B	04/29/11 17:56 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	04/29/11 17:56 / jba
Bicarbonate as HCO3	161	mg/L		1		A2320 B	04/29/11 17:56 / jba
Calcium	32	mg/L		1		E200.7	05/13/11 14:26 / cp
Chloride	3	mg/L		1		E300.0	05/03/11 14:20 / ljl
Fluoride	1.0	mg/L		0.1		A4500-F C	05/02/11 13:03 / jba
Magnesium	7	mg/L		1		E200.8	05/06/11 19:17 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	05/04/11 12:29 / dc
Nitrogen, Nitrate+Nitrite as N	0.9	mg/L		0.1		E353.2	05/02/11 12:18 / dc
Potassium	3	mg/L		1		E200.7	05/13/11 14:26 / cp
Silica	79.8	mg/L		0.2		E200.7	05/19/11 13:51 / cp
Sodium	14	mg/L		1		E200.8	05/06/11 19:17 / sml
Sulfate	5	mg/L		1		E300.0	05/02/11 17:27 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	263	umhos/cm		1		A2510 B	04/29/11 08:38 / lmc
pH	8.07	s.u.		0.01		A4500-H B	04/29/11 08:38 / lmc
Solids, Total Dissolved TDS @ 180 C	216	mg/L		10		A2540 C	04/29/11 16:34 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	05/06/11 19:17 / sml
Arsenic	0.005	mg/L		0.001		E200.8	05/06/11 19:17 / sml
Barium	ND	mg/L		0.1		E200.8	05/06/11 19:17 / sml
Boron	ND	mg/L		0.1		E200.8	05/06/11 19:17 / sml
Cadmium	ND	mg/L		0.005		E200.8	05/06/11 19:17 / sml
Chromium	ND	mg/L		0.05		E200.8	05/06/11 19:17 / sml
Copper	ND	mg/L		0.01		E200.8	05/06/11 19:17 / sml
Iron	ND	mg/L		0.03		E200.8	05/06/11 19:17 / sml
Lead	ND	mg/L		0.001		E200.8	05/06/11 19:17 / sml
Manganese	ND	mg/L		0.01		E200.8	05/06/11 19:17 / sml
Mercury	ND	mg/L		0.001		E200.8	05/06/11 19:17 / sml
Molybdenum	ND	mg/L		0.1		E200.8	05/06/11 19:17 / sml
Nickel	ND	mg/L		0.05		E200.8	05/06/11 19:17 / sml
Selenium	0.001	mg/L		0.001		E200.8	05/06/11 19:17 / sml
Uranium	0.0059	mg/L		0.0003		E200.8	05/06/11 19:17 / sml
Uranium, Activity	4.0E-09	uCi/mL		2.0E-10		E200.8	05/06/11 19:17 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/06/11 19:17 / sml
Zinc	0.06	mg/L		0.01		E200.8	05/06/11 19:17 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	05/10/11 04:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	05/10/11 04:23 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11040852-001
Client Sample ID: Well 747

Report Date: 06/23/11
Collection Date: 04/25/11
Date Received: 04/28/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	06/20/11 03:21 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	06/20/11 03:21 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	06/20/11 03:21 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/10/11 08:41 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/10/11 08:41 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/10/11 08:41 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	05/09/11 16:29 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/09/11 16:29 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/23/11 09:10 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/23/11 09:10 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/23/11 09:10 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0	05/26/11 02:06 / eli-cs
Lead 210 precision (±)	0.7	pCi/L				E909.0	05/26/11 02:06 / eli-cs
Lead 210 MDC	1.2	pCi/L				E909.0	05/26/11 02:06 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/19/11 09:04 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/19/11 09:04 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/19/11 09:04 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/31/11 21:44 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	05/31/11 21:44 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/31/11 21:44 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/23/11 09:12 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/23/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/23/11 09:12 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.19	%				Calculation	05/25/11 07:53 / kbh
Anions	2.95	meq/L				Calculation	05/25/11 07:53 / kbh
Cations	2.83	meq/L				Calculation	05/25/11 07:53 / kbh
Solids, Total Dissolved Calculated	249	mg/L				Calculation	05/25/11 07:53 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	05/25/11 07:53 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R145349
Sample ID: MBLK										
	3	Method Blank								Run: MANTECH_110429A 04/29/11 15:59
Alkalinity, Total as CaCO3		2.98	mg/L	1.0						
Carbonate as CO3		ND	mg/L	1.0						
Bicarbonate as HCO3		3.64	mg/L	1.0						
Sample ID: LCS										
		Laboratory Control Sample								Run: MANTECH_110429A 04/29/11 16:15
Alkalinity, Total as CaCO3		209	mg/L	5.0	103	90	110			
Sample ID: C11040852-001BDUP										
		Sample Duplicate								Run: MANTECH_110429A 04/29/11 18:04
Alkalinity, Total as CaCO3		132	mg/L	5.0				0.0	10	
Sample ID: C11040852-001BMS										
		Sample Matrix Spike								Run: MANTECH_110429A 04/29/11 18:14
Alkalinity, Total as CaCO3		267	mg/L	5.0	108	80	120			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110429A		
Sample ID: ICV2_110429_1	Initial Calibration Verification Standard									04/29/11 08:26
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 110429_1_PH-W_555A-2		
Sample ID: MBLK1_110429_1	Method Blank									04/29/11 08:23
Conductivity @ 25 C		ND	umhos/cm	1.0						
Sample ID: C11040846-001BDUP	Sample Duplicate									04/29/11 09:15
Conductivity @ 25 C		1360	umhos/cm	1.0				0.1	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R145440
Sample ID: MBLK1_		Method Blank					Run: BAL-1_110429B			04/29/11 16:33
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_		Laboratory Control Sample					Run: BAL-1_110429B			04/29/11 16:33
Solids, Total Dissolved TDS @ 180 C		1010	mg/L	10	100	90	110			
Sample ID: C11040889-002BDUP		Sample Duplicate					Run: BAL-1_110429B			04/29/11 16:36
Solids, Total Dissolved TDS @ 180 C		264	mg/L	10				1.5	10	
Sample ID: C11040893-001AMS		Sample Matrix Spike					Run: BAL-1_110429B			04/29/11 16:38
Solids, Total Dissolved TDS @ 180 C		3500	mg/L	10	102	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R145395
Sample ID: MBLK		Method Blank								
Fluoride		ND	mg/L	0.10						Run: MANTECH_110502A 05/02/11 08:58
Sample ID: LCS		Laboratory Control Sample								
Fluoride		1.02	mg/L	0.10	99	90	110			Run: MANTECH_110502A 05/02/11 09:01
Sample ID: C11040889-002AMS		Sample Matrix Spike								
Fluoride		1.16	mg/L	0.10	103	80	120			Run: MANTECH_110502A 05/02/11 13:24
Sample ID: C11040889-002AMSD		Sample Matrix Spike Duplicate								
Fluoride		1.16	mg/L	0.10	103	80	120	0.0	10	Run: MANTECH_110502A 05/02/11 13:26

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110429A		
Sample ID: ICV1_110429_1		Initial Calibration Verification Standard						04/29/11 08:24		
pH		6.94	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110429_1_PH-W_555A-2		
Sample ID: C11040846-001BDUP		Sample Duplicate				Run: ORION555A-2_110429A		04/29/11 09:15		
pH		7.95	s.u.	0.010				0.1	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R145477
Sample ID: MBLK-6		Method Blank								
Nitrogen, Ammonia as N		ND	mg/L	0.050						Run: TECHNICON_110504A 05/04/11 12:21
Sample ID: LCS-7		Laboratory Control Sample								
Nitrogen, Ammonia as N		1.94	mg/L	0.050	97	90	110			Run: TECHNICON_110504A 05/04/11 12:23
Sample ID: C11040852-001DMS		Sample Matrix Spike								
Nitrogen, Ammonia as N		1.79	mg/L	0.050	91	80	120			Run: TECHNICON_110504A 05/04/11 12:35
Sample ID: C11040852-001DMSD		Sample Matrix Spike Duplicate								
Nitrogen, Ammonia as N		1.80	mg/L	0.050	92	80	120	0.6	10	Run: TECHNICON_110504A 05/04/11 12:37

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R145849										
Sample ID: MB-110513A	2	Method Blank					Run: ICP2-C_110513A			05/13/11 12:21
Calcium		ND	mg/L	1.0						
Potassium		ND	mg/L	1.0						
Sample ID: LFB-110513A	2	Laboratory Fortified Blank					Run: ICP2-C_110513A			05/13/11 12:25
Calcium		48.0	mg/L	0.50	96	85	115			
Potassium		43.7	mg/L	0.50	87	85	115			
Sample ID: C11040852-001CMS2	2	Sample Matrix Spike					Run: ICP2-C_110513A			05/13/11 14:30
Calcium		129	mg/L	1.0	95	70	130			
Potassium		88.8	mg/L	1.0	84	70	130			
Sample ID: C11040852-001CMSD	2	Sample Matrix Spike Duplicate					Run: ICP2-C_110513A			05/13/11 14:34
Calcium		130	mg/L	1.0	96	70	130	0.9	20	
Potassium		89.1	mg/L	1.0	85	70	130	0.3	20	
Method: E200.7										
Batch: R146055										
Sample ID: MB-110519A		Method Blank					Run: ICP2-C_110519A			05/19/11 12:44
Silicon		ND	mg/L	0.10						
Sample ID: LFB-110519A		Laboratory Fortified Blank					Run: ICP2-C_110519A			05/19/11 12:48
Silicon		0.489	mg/L	0.10	98	85	115			
Sample ID: C11040726-001CMS2		Sample Matrix Spike					Run: ICP2-C_110519A			05/19/11 13:18
Silicon		33.2	mg/L	0.10		70	130			A
Sample ID: C11040726-001CMSD		Sample Matrix Spike Duplicate					Run: ICP2-C_110519A			05/19/11 13:22
Silicon		33.0	mg/L	0.10		70	130	0.5	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29764
Sample ID: MB-29764		Method Blank								Run: ICPMS2-C_110509A 05/10/11 04:11
Uranium		ND	mg/L	0.00030						
Sample ID: LCS2-29764		Laboratory Control Sample								Run: ICPMS2-C_110509A 05/10/11 04:15
Uranium		0.104	mg/L	0.00030	104	85	115			
Sample ID: C11040852-001HMS		Sample Matrix Spike								Run: ICPMS2-C_110509A 05/10/11 04:27
Uranium		0.00461	mg/L	0.00030	102	70	130			
Sample ID: C11040852-001HMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_110509A 05/10/11 04:32
Uranium		0.00474	mg/L	0.00030	105	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R145598A										
Sample ID: C11040769-001BMS4	19	Sample Matrix Spike					Run: ICPMS4-C_110506A			05/06/11 17:34
Aluminum		0.323	mg/L	0.10	100	70	130			
Arsenic		0.267	mg/L	0.0010	107	70	130			
Barium		0.295	mg/L	0.10	103	70	130			
Boron		0.291	mg/L	0.10	100	70	130			
Cadmium		0.258	mg/L	0.010	103	70	130			
Chromium		0.259	mg/L	0.050	103	70	130			
Copper		0.258	mg/L	0.010	103	70	130			
Iron		6.34	mg/L	0.030	101	70	130			
Lead		0.257	mg/L	0.050	103	70	130			
Magnesium		106	mg/L	1.0	95	70	130			
Manganese		0.282	mg/L	0.010	101	70	130			
Mercury		0.0266	mg/L	0.0010	107	70	130			
Molybdenum		0.257	mg/L	0.10	103	70	130			
Nickel		0.260	mg/L	0.050	103	70	130			
Selenium		0.270	mg/L	0.0010	108	70	130			
Sodium		88.4	mg/L	1.0	96	70	130			
Uranium		0.261	mg/L	0.00030	104	70	130			
Vanadium		0.255	mg/L	0.10	102	70	130			
Zinc		0.307	mg/L	0.010	92	70	130			
Sample ID: C11040769-001BMSD	19	Sample Matrix Spike Duplicate					Run: ICPMS4-C_110506A			05/06/11 17:40
Aluminum		0.319	mg/L	0.10	98	70	130	1.2	20	
Arsenic		0.264	mg/L	0.0010	106	70	130	1.0	20	
Barium		0.299	mg/L	0.10	105	70	130	1.2	20	
Boron		0.293	mg/L	0.10	101	70	130	0.7	20	
Cadmium		0.259	mg/L	0.010	104	70	130	0.4	20	
Chromium		0.254	mg/L	0.050	102	70	130	1.9	20	
Copper		0.256	mg/L	0.010	102	70	130	0.9	20	
Iron		6.28	mg/L	0.030	100	70	130	0.8	20	
Lead		0.256	mg/L	0.050	102	70	130	0.4	20	
Magnesium		107	mg/L	1.0	96	70	130	0.4	20	
Manganese		0.282	mg/L	0.010	101	70	130	0.2	20	
Mercury		0.0273	mg/L	0.0010	109	70	130	2.5	20	
Molybdenum		0.257	mg/L	0.10	103	70	130	0.2	20	
Nickel		0.256	mg/L	0.050	101	70	130	1.7	20	
Selenium		0.268	mg/L	0.0010	107	70	130	1.0	20	
Sodium		88.3	mg/L	1.0	96	70	130	0.1	20	
Uranium		0.263	mg/L	0.00030	105	70	130	0.6	20	
Vanadium		0.252	mg/L	0.10	101	70	130	1.0	20	
Zinc		0.304	mg/L	0.010	91	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/23/11

Project: Marsland Baseline Samples

Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R145598A
Sample ID: LRB	19	Method Blank		Run: ICPMS4-C_110506A				05/06/11 15:59		
Aluminum		ND	mg/L	0.10						
Arsenic		ND	mg/L	0.0010						
Barium		ND	mg/L	0.10						
Boron		ND	mg/L	0.10						
Cadmium		ND	mg/L	0.0050						
Chromium		ND	mg/L	0.050						
Copper		ND	mg/L	0.010						
Iron		ND	mg/L	0.030						
Lead		ND	mg/L	0.0010						
Magnesium		ND	mg/L	1.0						
Manganese		ND	mg/L	0.010						
Mercury		ND	mg/L	0.0010						
Molybdenum		ND	mg/L	0.10						
Nickel		ND	mg/L	0.050						
Selenium		ND	mg/L	0.0010						
Sodium		ND	mg/L	1.0						
Uranium		ND	mg/L	0.00030						
Vanadium		ND	mg/L	0.10						
Zinc		ND	mg/L	0.010						
Sample ID: LFB	19	Laboratory Fortified Blank		Run: ICPMS4-C_110506A				05/06/11 16:06		
Aluminum		0.0528	mg/L	0.0010	106	85	115			
Arsenic		0.0513	mg/L	0.0010	103	85	115			
Barium		0.0517	mg/L	0.0010	103	85	115			
Boron		0.0506	mg/L	0.0010	101	85	115			
Cadmium		0.0519	mg/L	0.0010	104	85	115			
Chromium		0.0503	mg/L	0.0010	101	85	115			
Copper		0.0510	mg/L	0.0010	102	85	115			
Iron		1.26	mg/L	0.012	101	85	115			
Lead		0.0512	mg/L	0.0010	102	85	115			
Magnesium		12.2	mg/L	0.12	97	85	115			
Manganese		0.0499	mg/L	0.0010	100	85	115			
Mercury		0.00510	mg/L	0.0010	102	85	115			
Molybdenum		0.0485	mg/L	0.0010	97	85	115			
Nickel		0.0504	mg/L	0.0010	101	85	115			
Selenium		0.0539	mg/L	0.0010	108	85	115			
Sodium		12.1	mg/L	0.12	97	85	115			
Uranium		0.0505	mg/L	0.00030	101	85	115			
Vanadium		0.0501	mg/L	0.0010	100	85	115			
Zinc		0.0548	mg/L	0.0010	107	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110502A		
Sample ID: ICV	2	Initial Calibration Verification Standard								05/02/11 14:37
Chloride		9.84	mg/L	1.0	98	90	110			
Sulfate		40.1	mg/L	1.0	100	90	110			
Method: E300.0								Batch: R145448		
Sample ID: LFB	2	Laboratory Fortified Blank								05/02/11 14:53
Chloride		9.78	mg/L	1.0	97	90	110			
Sulfate		39.5	mg/L	1.0	98	90	110			
Sample ID: ICB	2	Method Blank								05/02/11 15:08
Chloride		ND	mg/L	1.0						
Sulfate		ND	mg/L	1.0						
Sample ID: C11040846-002BMS	2	Sample Matrix Spike								05/02/11 16:41
Chloride		25.8	mg/L	1.0	102	80	120			
Sulfate		304	mg/L	1.6	85	80	120			
Sample ID: C11040846-002BMSD	2	Sample Matrix Spike Duplicate								05/02/11 16:56
Chloride		25.7	mg/L	1.0	102	80	120	0.3	10	
Sulfate		302	mg/L	1.6	84	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R145387
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110502A 05/02/11 12:13
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110502A 05/02/11 12:16
Nitrogen, Nitrate+Nitrite as N		2.73	mg/L	0.10	109	90	110			
Sample ID: C11040862-004FMS		Sample Matrix Spike								Run: TECHNICON_110502A 05/02/11 12:31
Nitrogen, Nitrate+Nitrite as N		2.00	mg/L	0.10	102	90	110			
Sample ID: C11040862-004FMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110502A 05/02/11 12:33
Nitrogen, Nitrate+Nitrite as N		1.99	mg/L	0.10	102	90	110	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5349		
Sample ID: LCS-29763		Laboratory Control Sample								
Radium 226		1.3E-05	uCi/kg		108	70	130			05/31/11 21:44
Sample ID: MB-29763	3	Method Blank								
Radium 226		ND	uCi/kg	0.10						U
Radium 226 precision (±)		1.1E-07	uCi/kg							
Radium 226 MDC		2.7E-07	uCi/kg							
Sample ID: C11050009-001AMS		Sample Matrix Spike								
Radium 226		1.7	pCi/g-dry		89	70	130			05/31/11 23:48
Sample ID: C11050009-001AMSD		Sample Matrix Spike Duplicate								
Radium 226		1.3	pCi/g-dry		79	70	130	28	26.3	R
- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is within range, therefore the batch is approved.										
Method: E903.0								Batch: RA226-5335		
Sample ID: C11040726-006DMS		Sample Matrix Spike								
Radium 226		6.3	pCi/L		96	70	130			05/09/11 16:29
Sample ID: C11040726-006DMSD		Sample Matrix Spike Duplicate								
Radium 226		5.5	pCi/L		84	70	130	13	26	05/09/11 16:29
Sample ID: MB-RA226-5335	3	Method Blank								
Radium 226		0.15	pCi/L	0.10						U
Radium 226 precision (±)		0.093	pCi/L							
Radium 226 MDC		0.11	pCi/L							
Sample ID: LCS-RA226-5335		Laboratory Control Sample								
Radium 226		5.7	pCi/L		88	85	115			05/09/11 21:59

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1391		
Sample ID: LCS-RA-TH-ISO-1391	Laboratory Control Sample					Run: EGG-ORTEC_110518A		05/20/11 16:22		
Thorium 230		5.2	pCi/L		91	70	130			
Sample ID: C11040726-003DMS	Sample Matrix Spike					Run: EGG-ORTEC_110518A		05/20/11 16:22		
Thorium 230		11	pCi/L		101	70	130			
Sample ID: C11040726-003DMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110518A		05/20/11 16:22		
Thorium 230		11	pCi/L		96	70	130	5.1	39	
Sample ID: MB-RA-TH-ISO-1391	3	Method Blank				Run: EGG-ORTEC_110518A		05/23/11 09:10		
Thorium 230		ND	pCi/L	0.10						U
Thorium 230 precision (±)		0.093	pCi/L							
Thorium 230 MDC		0.15	pCi/L							
Method: E908.0								Batch: R146383		
Sample ID: LCS-29764	Laboratory Control Sample					Run: EGG-ORTEC_110518B		05/23/11 09:12		
Thorium 230		11	pCi/L		108	70	130			
Sample ID: MB-29764	3	Method Blank				Run: EGG-ORTEC_110518B		05/23/11 09:12		
Thorium 230		ND	pCi/L	0.10						U
Thorium 230 precision (±)		0.15	pCi/L							
Thorium 230 MDC		0.29	pCi/L							
Sample ID: C11050219-001HMS	Sample Matrix Spike					Run: EGG-ORTEC_110518B		05/23/11 14:06		
Thorium 230		7.4	pCi/L		86	70	130			
Sample ID: C11050219-001HMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110518B		05/23/11 14:06		
Thorium 230		9.5	pCi/L		111	70	130	25	45.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/23/11
Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										Batch: T_13927
Sample ID: C11040852-001HMSD		Sample Matrix Spike Duplicate				Run: SUB-T40610				05/26/11 06:29
Lead 210		74	pCi/L		79	70	130	5.4	17.7	
Sample ID: C11040852-001HMS		Sample Matrix Spike				Run: SUB-T40610				05/26/11 04:17
Lead 210		70	pCi/L		75	70	130			
Sample ID: LCS-13927		Laboratory Control Sample				Run: SUB-T40610				05/25/11 23:54
Lead 210		220	pCi/L		64	70	130			S
- LCS response is outside of the acceptance range for this analysis due to interference from excess HCl in the sample. Since the MB, MS, and MSD are acceptable the batch is approved.										
Sample ID: MB-13927	3	Method Blank				Run: SUB-T40610				05/25/11 21:43
Lead 210		ND	pCi/L	1.0						U
Lead 210 precision (±)		7.2	pCi/L							
Lead 210 MDC		12	pCi/L							
Method: E909.0										Batch: T_PB-210-0109A
Sample ID: C11040738-018DMSD		Sample Matrix Spike Duplicate				Run: SUB-T40864				06/19/11 19:08
Lead 210		160	pCi/L		88	70	130	4.9	15.3	
Sample ID: C11040738-018DMS		Sample Matrix Spike				Run: SUB-T40864				06/19/11 17:29
Lead 210		150	pCi/L		83	70	130			
Sample ID: LCS-PB-210-0109		Laboratory Control Sample				Run: SUB-T40864				06/19/11 14:11
Lead 210		48	pCi/L		89	70	130			
Sample ID: MB-PB-210-0109	3	Method Blank				Run: SUB-T40864				06/19/11 12:33
Lead 210		ND	pCi/L	1.0						U
Lead 210 precision (±)		0.71	pCi/L							
Lead 210 MDC		1.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/23/11

Project: Marsland Baseline Samples

Work Order: C11040852

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: PO210-0370
Sample ID: C11040911-001BMS	Sample Matrix Spike									Run: EGG-ORTEC_110505C 05/09/11 11:18
Polonium 210	13	pCi/L		100		70	130			
Sample ID: C11040911-001BMSD	Sample Matrix Spike Duplicate									Run: EGG-ORTEC_110505C 05/09/11 11:18
Polonium 210	9.7	pCi/L		73		70	130	30	84.5	
Sample ID: MB-PO210-0370	3	Method Blank								Run: EGG-ORTEC_110505C 05/13/11 08:49
Polonium 210		ND	pCi/L	0.20						U
Polonium 210 precision (±)		0.35	pCi/L							
Polonium 210 MDC		0.99	pCi/L							
Sample ID: LCS-PO210-0370	Laboratory Control Sample									Run: EGG-ORTEC_110505C 05/10/11 08:41
Polonium 210	4.8	pCi/L		77		70	130			
Method: E912.0										Batch: PO210-0371
Sample ID: C11040296-002HMS	Sample Matrix Spike									Run: EGG-ORTEC_110516A 05/23/11 14:03
Polonium 210	4.8	pCi/L		89		70	130			
Sample ID: C11040296-002HMSD	Sample Matrix Spike Duplicate									Run: EGG-ORTEC_110516A 05/23/11 14:03
Polonium 210	5.1	pCi/L		96		70	130	7.2	66.9	
Sample ID: LCS-29539	Laboratory Control Sample									Run: EGG-ORTEC_110516A 05/19/11 09:04
Polonium 210	40	pCi/L		132		70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, other LCSs, and all tracer recoveries are acceptable the batch is approved.										
Sample ID: MB-29539	3	Method Blank								Run: EGG-ORTEC_110516A 05/19/11 09:04
Polonium 210		0.48	pCi/L	0.20						U
Polonium 210 precision (±)		1.2	pCi/L							
Polonium 210 MDC		2.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist



C11040852

Login completed by: Tabitha Edwards

Date Received: 4/28/2011

Reviewed by: BL2000\cwagner

Received by: em

Reviewed Date: 4/29/2011

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 5.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 4.26.11

ANALYST: MO

STANDARD CURVE DATA

	BL	.01	.05	.1		
Abs	.000	.037	.173	.341		
Abs						

SAMPLE #	VOLUME	Df	Abs	NO ₂ ⁻ mg/L
1 747	10ml	1	.004	<1
2 DUP 747	10ml	1	.005	<1
3				
4				
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

June 27, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11050219 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Samples

Energy Laboratories, Inc. Casper WY received the following 3 samples for Crow Butte Resources on 5/6/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11050219-001	BOW 4-A	05/03/11 00:00	05/06/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11050219-002	BOW 7	05/03/11 00:00	05/06/11	Aqueous	Same As Above
C11050219-003	BOW 8	05/03/11 00:00	05/06/11	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Samples
Sample Delivery Group: C11050219

Report Date: 06/27/11

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-001
Client Sample ID: BOW 4-A

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	125	mg/L		1		A2320 B	05/06/11 19:42 / jba
Carbonate as CO ₃	19	mg/L		1		A2320 B	05/06/11 19:42 / jba
Bicarbonate as HCO ₃	114	mg/L		1		A2320 B	05/06/11 19:42 / jba
Calcium	6	mg/L		1		E200.8	05/10/11 04:40 / sml
Chloride	28	mg/L		1		E300.0	05/07/11 16:50 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	05/09/11 10:15 / jba
Magnesium	ND	mg/L		1		E200.8	05/10/11 04:40 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	05/19/11 14:40 / dc
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	05/09/11 14:11 / dc
Potassium	8	mg/L		1		E200.8	05/10/11 04:40 / sml
Silica	75.6	mg/L		0.2		E200.7	05/13/11 16:11 / cp
Sodium	84	mg/L		1		E200.8	05/10/11 04:40 / sml
Sulfate	49	mg/L		1		E300.0	05/07/11 16:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	446	umhos/cm		1		A2510 B	05/06/11 16:00 / lmc
pH	9.31	s.u.		0.01		A4500-H B	05/06/11 16:00 / lmc
Solids, Total Dissolved TDS @ 180 C	316	mg/L		10		A2540 C	05/09/11 12:54 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	05/10/11 04:40 / sml
Arsenic	0.015	mg/L		0.001		E200.8	05/10/11 04:40 / sml
Barium	ND	mg/L		0.1		E200.8	05/10/11 04:40 / sml
Boron	0.1	mg/L		0.1		E200.8	05/10/11 04:40 / sml
Cadmium	ND	mg/L		0.005		E200.8	05/10/11 04:40 / sml
Chromium	ND	mg/L		0.05		E200.8	05/10/11 04:40 / sml
Copper	ND	mg/L		0.01		E200.8	05/10/11 04:40 / sml
Iron	ND	mg/L		0.03		E200.8	05/10/11 04:40 / sml
Lead	ND	mg/L		0.001		E200.8	05/10/11 04:40 / sml
Manganese	ND	mg/L		0.01		E200.8	05/10/11 04:40 / sml
Mercury	ND	mg/L		0.001		E200.8	05/10/11 04:40 / sml
Molybdenum	ND	mg/L		0.1		E200.8	05/10/11 04:40 / sml
Nickel	ND	mg/L		0.05		E200.8	05/10/11 04:40 / sml
Selenium	0.012	mg/L		0.001		E200.8	05/10/11 04:40 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	05/10/11 04:40 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	05/10/11 04:40 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/10/11 04:40 / sml
Zinc	ND	mg/L		0.01		E200.8	05/10/11 04:40 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	05/11/11 19:22 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	05/11/11 19:22 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-001
Client Sample ID: BOW 4-A

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/31/11 05:42 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/31/11 05:42 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/31/11 05:42 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	05/19/11 09:05 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	05/19/11 09:05 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	05/19/11 09:05 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/24/11 10:54 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	05/24/11 10:54 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/24/11 10:54 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/13/11 08:50 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/13/11 08:50 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/13/11 08:50 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.1	pCi/L	U	1.1		E909.0	06/23/11 16:51 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	06/23/11 16:51 / eli-cs
Lead 210 MDC	1.1	pCi/L				E909.0	06/23/11 16:51 / eli-cs
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	05/19/11 11:22 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	05/19/11 11:22 / ep
Polonium 210 MDC	0.3	pCi/L				E912.0	05/19/11 11:22 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/18/11 11:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	05/18/11 11:14 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/18/11 11:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/23/11 09:12 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	05/23/11 09:12 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/23/11 09:12 / dmf
DATA QUALITY							
A/C Balance (± 5)	-1.89	%				Calculation	05/13/11 13:22 / kbh
Anions	4.40	meq/L				Calculation	05/13/11 13:22 / kbh
Cations	4.24	meq/L				Calculation	05/13/11 13:22 / kbh
Solids, Total Dissolved Calculated	256	mg/L				Calculation	05/13/11 13:22 / kbh
TDS Balance (0.80 - 1.20)	1.23					Calculation	05/13/11 13:22 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-002
Client Sample ID: BOW 7

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	180	mg/L		1		A2320 B	05/06/11 19:51 / jba
Carbonate as CO ₃	14	mg/L		1		A2320 B	05/06/11 19:51 / jba
Bicarbonate as HCO ₃	191	mg/L		1		A2320 B	05/06/11 19:51 / jba
Calcium	6	mg/L		1		E200.8	05/10/11 04:47 / sml
Chloride	25	mg/L		1		E300.0	05/07/11 17:05 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	05/09/11 10:27 / jba
Magnesium	ND	mg/L		1		E200.8	05/10/11 04:47 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	05/19/11 14:42 / dc
Nitrogen, Nitrate+Nitrite as N	1.0	mg/L		0.1		E353.2	05/09/11 14:14 / dc
Potassium	9	mg/L		1		E200.8	05/10/11 04:47 / sml
Silica	80.1	mg/L		0.2		E200.7	05/13/11 16:15 / cp
Sodium	106	mg/L		1		E200.8	05/10/11 04:47 / sml
Sulfate	52	mg/L	D	2		E300.0	05/07/11 17:05 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	535	umhos/cm		1		A2510 B	05/06/11 16:02 / lmc
pH	8.93	s.u.		0.01		A4500-H B	05/06/11 16:02 / lmc
Solids, Total Dissolved TDS @ 180 C	376	mg/L		10		A2540 C	05/09/11 12:54 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	05/10/11 04:47 / sml
Arsenic	0.030	mg/L		0.001		E200.8	05/10/11 04:47 / sml
Barium	ND	mg/L		0.1		E200.8	05/10/11 04:47 / sml
Boron	0.1	mg/L		0.1		E200.8	05/10/11 04:47 / sml
Cadmium	ND	mg/L		0.005		E200.8	05/10/11 04:47 / sml
Chromium	ND	mg/L		0.05		E200.8	05/10/11 04:47 / sml
Copper	ND	mg/L		0.01		E200.8	05/10/11 04:47 / sml
Iron	ND	mg/L		0.03		E200.8	05/10/11 04:47 / sml
Lead	ND	mg/L		0.001		E200.8	05/10/11 04:47 / sml
Manganese	ND	mg/L		0.01		E200.8	05/10/11 04:47 / sml
Mercury	ND	mg/L		0.001		E200.8	05/10/11 04:47 / sml
Molybdenum	ND	mg/L		0.1		E200.8	05/10/11 04:47 / sml
Nickel	ND	mg/L		0.05		E200.8	05/10/11 04:47 / sml
Selenium	0.235	mg/L		0.001		E200.8	05/10/11 04:47 / sml
Uranium	0.0049	mg/L		0.0003		E200.8	05/10/11 04:47 / sml
Uranium, Activity	3.3E-09	uCi/mL		2.0E-10		E200.8	05/10/11 04:47 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/10/11 04:47 / sml
Zinc	ND	mg/L		0.01		E200.8	05/10/11 04:47 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	05/11/11 19:27 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	05/11/11 19:27 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-002
Client Sample ID: BOW 7

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/31/11 07:53 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/31/11 07:53 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/31/11 07:53 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	05/19/11 09:05 / ep
Polonium 210 precision (±)	0.7	pCi/L				E912.0	05/19/11 09:05 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	05/19/11 09:05 / ep
Radium 226	0.6	pCi/L		0.2		E903.0	05/24/11 10:54 / trs
Radium 226 precision (±)	0.2	pCi/L				E903.0	05/24/11 10:54 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	05/24/11 10:54 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/13/11 13:34 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/13/11 13:34 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/13/11 13:34 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/23/11 20:09 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/23/11 20:09 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/23/11 20:09 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/19/11 11:22 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	05/19/11 11:22 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/19/11 11:22 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	05/18/11 11:14 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/18/11 11:14 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/18/11 11:14 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	05/23/11 14:06 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	05/23/11 14:06 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/23/11 14:06 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.68	%				Calculation	05/13/11 13:22 / kbh
Anions	5.48	meq/L				Calculation	05/13/11 13:22 / kbh
Cations	5.20	meq/L				Calculation	05/13/11 13:22 / kbh
Solids, Total Dissolved Calculated	312	mg/L				Calculation	05/13/11 13:22 / kbh
TDS Balance (0.80 - 1.20)	1.21					Calculation	05/13/11 13:22 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-003
Client Sample ID: BOW 8

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	179	mg/L		1		A2320 B	05/06/11 20:00 / jba
Carbonate as CO3	14	mg/L		1		A2320 B	05/06/11 20:00 / jba
Bicarbonate as HCO3	189	mg/L		1		A2320 B	05/06/11 20:00 / jba
Calcium	9	mg/L		1		E200.8	05/10/11 04:53 / sml
Chloride	9	mg/L		1		E300.0	05/07/11 17:51 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	05/09/11 10:34 / jba
Magnesium	ND	mg/L		1		E200.8	05/10/11 04:53 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	05/19/11 14:44 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	05/09/11 14:16 / dc
Potassium	10	mg/L		1		E200.8	05/10/11 04:53 / sml
Silica	80.2	mg/L		0.2		E200.7	05/13/11 16:40 / cp
Sodium	79	mg/L		1		E200.8	05/10/11 04:53 / sml
Sulfate	24	mg/L		1		E300.0	05/07/11 17:51 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	410	umhos/cm		1		A2510 B	05/06/11 16:03 / lmc
pH	8.93	s.u.		0.01		A4500-H B	05/06/11 16:03 / lmc
Solids, Total Dissolved TDS @ 180 C	299	mg/L		10		A2540 C	05/09/11 12:54 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	05/10/11 04:53 / sml
Arsenic	0.006	mg/L		0.001		E200.8	05/10/11 04:53 / sml
Barium	ND	mg/L		0.1		E200.8	05/10/11 04:53 / sml
Boron	ND	mg/L		0.1		E200.8	05/10/11 04:53 / sml
Cadmium	ND	mg/L		0.005		E200.8	05/10/11 04:53 / sml
Chromium	ND	mg/L		0.05		E200.8	05/10/11 04:53 / sml
Copper	ND	mg/L		0.01		E200.8	05/10/11 04:53 / sml
Iron	ND	mg/L		0.03		E200.8	05/10/11 04:53 / sml
Lead	ND	mg/L		0.001		E200.8	05/10/11 04:53 / sml
Manganese	ND	mg/L		0.01		E200.8	05/10/11 04:53 / sml
Mercury	ND	mg/L		0.001		E200.8	05/10/11 04:53 / sml
Molybdenum	ND	mg/L		0.1		E200.8	05/10/11 04:53 / sml
Nickel	ND	mg/L		0.05		E200.8	05/10/11 04:53 / sml
Selenium	ND	mg/L		0.001		E200.8	05/10/11 04:53 / sml
Uranium	0.0069	mg/L		0.0003		E200.8	05/10/11 04:53 / sml
Uranium, Activity	4.7E-09	uCi/mL		2.0E-10		E200.8	05/10/11 04:53 / sml
Vanadium	ND	mg/L		0.1		E200.8	05/10/11 04:53 / sml
Zinc	ND	mg/L		0.01		E200.8	05/10/11 04:53 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	05/11/11 19:33 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	05/11/11 19:33 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples
Lab ID: C11050219-003
Client Sample ID: BOW 8

Report Date: 06/27/11
Collection Date: 05/03/11
Date Received: 05/06/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	05/31/11 10:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	05/31/11 10:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	05/31/11 10:05 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	05/19/11 09:05 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	05/19/11 09:05 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	05/19/11 09:05 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/24/11 10:54 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	05/24/11 10:54 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/24/11 10:54 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	05/13/11 13:34 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	05/13/11 13:34 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	05/13/11 13:34 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	06/23/11 21:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	06/23/11 21:15 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	06/23/11 21:15 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	05/19/11 11:22 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	05/19/11 11:22 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	05/19/11 11:22 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	05/18/11 11:14 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	05/18/11 11:14 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	05/18/11 11:14 / trs
Thorium 230	0.3	pCi/L		0.1		E908.0	05/24/11 09:54 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	05/24/11 09:54 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	05/24/11 09:54 / dmf
DATA QUALITY							
A/C Balance (± 5)	-2.91	%				Calculation	05/13/11 13:23 / kbh
Anions	4.39	meq/L				Calculation	05/13/11 13:23 / kbh
Cations	4.14	meq/L				Calculation	05/13/11 13:23 / kbh
Solids, Total Dissolved Calculated	241	mg/L				Calculation	05/13/11 13:23 / kbh
TDS Balance (0.80 - 1.20)	1.24					Calculation	05/13/11 13:23 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R145591
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110506A 05/06/11 14:43
Alkalinity, Total as CaCO3		2	mg/L		1					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		3	mg/L		1					
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110506A 05/06/11 14:58
Alkalinity, Total as CaCO3		211	mg/L	5.0	105	90	110			
Sample ID: C11050176-001ADUP		Sample Duplicate								Run: MANTECH_110506A 05/06/11 16:14
Alkalinity, Total as CaCO3		278	mg/L	5.0				0.9	10	
Sample ID: C11050204-009AMS		Sample Matrix Spike								Run: MANTECH_110506A 05/06/11 19:04
Alkalinity, Total as CaCO3		404	mg/L	5.0	105	80	120			

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A-2_110506B		
Sample ID: ICV2_110506_2	Initial Calibration Verification Standard									05/06/11 14:51
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 110506_2_PH-W_555A-2		
Sample ID: MBLK1_110506_2	Method Blank									05/06/11 14:48
Conductivity @ 25 C		0.6	umhos/cm	0.2						
Sample ID: C11050227-010ADUP	Sample Duplicate									05/06/11 15:16
Conductivity @ 25 C		7290	umhos/cm	1.0				0.1	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C										Batch: R145727
Sample ID: MBLK1_		Method Blank					Run: BAL-1_110509A			05/09/11 12:52
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_		Laboratory Control Sample					Run: BAL-1_110509A			05/09/11 12:53
Solids, Total Dissolved TDS @ 180 C		998	mg/L	10	100	90	110			
Sample ID: C11050219-003ADUP		Sample Duplicate					Run: BAL-1_110509A			05/09/11 12:55
Solids, Total Dissolved TDS @ 180 C		299	mg/L	10				0.1	10	
Sample ID: C11050227-004AMS		Sample Matrix Spike					Run: BAL-1_110509A			05/09/11 12:57
Solids, Total Dissolved TDS @ 180 C		4950	mg/L	10	104	90	110			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-F C										Batch: R145635	
Sample ID: MBLK		Method Blank								Run: MANTECH_110509A	05/09/11 10:07
Fluoride		0.02	mg/L	0.008							
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110509A	05/09/11 10:09
Fluoride		1.00	mg/L	0.10	98	90	110				
Sample ID: C11050219-001BMS		Sample Matrix Spike								Run: MANTECH_110509A	05/09/11 10:17
Fluoride		1.53	mg/L	0.10	102	80	120				
Sample ID: C11050219-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_110509A	05/09/11 10:20
Fluoride		1.53	mg/L	0.10	102	80	120	0.0	10		

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A-2_110506B		
Sample ID: ICV1_110506_2		Initial Calibration Verification Standard						05/06/11 14:49		
pH		6.91	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 110506_2_PH-W_555A-2		
Sample ID: C11050227-010ADUP		Sample Duplicate				Run: ORION555A-2_110506B		05/06/11 15:16		
pH		7.03	s.u.	0.010				0.4	3	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R146051
Sample ID: MBLK-1 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_110519A 05/19/11 14:02
Sample ID: LCS-2 Nitrogen, Ammonia as N		Laboratory Control Sample 2.04	mg/L	0.050	101	90	110			Run: TECHNICON_110519A 05/19/11 14:04
Sample ID: C11050219-003GMS Nitrogen, Ammonia as N		Sample Matrix Spike 1.78	mg/L	0.050	91	80	120			Run: TECHNICON_110519A 05/19/11 14:46
Sample ID: C11050219-003GMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.75	mg/L	0.050	89	80	120	1.7	10	Run: TECHNICON_110519A 05/19/11 14:48

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R145849
Sample ID: MB-110513A		Method Blank					Run: ICP2-C_110513A			05/13/11 12:21
Silicon		0.1	mg/L	0.007						
Sample ID: LFB-110513A		Laboratory Fortified Blank					Run: ICP2-C_110513A			05/13/11 12:25
Silicon		0.484	mg/L	0.10	108	85	115			
Sample ID: C11050219-002CMS2		Sample Matrix Spike					Run: ICP2-C_110513A			05/13/11 16:20
Silicon		36.5	mg/L	0.10		70	130			A
Sample ID: C11050219-002CMSD		Sample Matrix Spike Duplicate					Run: ICP2-C_110513A			05/13/11 16:24
Silicon		37.0	mg/L	0.10		70	130	1.1	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 29809A
Sample ID: C11050219-003HMS		Sample Matrix Spike								Run: ICPMS2-C_110511B 05/11/11 19:38
Uranium		0.00456	mg/L	0.00030	101	70	130			
Sample ID: C11050219-003HMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_110511B 05/11/11 19:43
Uranium		0.00441	mg/L	0.00030	97	70	130	3.5	20	
Sample ID: MB-29809		Method Blank								Run: ICPMS2-C_110511B 05/11/11 18:25
Uranium		0.0002	pCi/Filter	6E-05						
Sample ID: LCS2-29809		Laboratory Control Sample								Run: ICPMS2-C_110511B 05/11/11 18:30
Uranium		0.105	pCi/Filter	0.00030	105	85	115			

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R145652A										
Sample ID: C11050206-001BMS4	21	Sample Matrix Spike			Run: ICPMS4-C_110509A				05/10/11 03:59	
Aluminum		0.121	mg/L	0.10	102	70	130			
Arsenic		0.0552	mg/L	0.0010	110	70	130			
Barium		0.0759	mg/L	0.0010	105	70	130			
Boron		0.0562	mg/L	0.0010	105	70	130			
Cadmium		0.0564	mg/L	0.010	107	70	130			
Calcium		70.4	mg/L	1.0		70	130			A
Chromium		0.0533	mg/L	0.050	107	70	130			
Copper		0.0583	mg/L	0.010	105	70	130			
Iron		1.36	mg/L	0.030	102	70	130			
Lead		0.0530	mg/L	0.050	106	70	130			
Magnesium		15.4	mg/L	1.0	95	70	130			
Manganese		3.37	mg/L	0.010		70	130			A
Mercury		0.00505	mg/L	0.0010	101	70	130			
Molybdenum		0.0537	mg/L	0.0010	105	70	130			
Nickel		0.0550	mg/L	0.050	106	70	130			
Potassium		13.1	mg/L	1.0	99	70	130			
Selenium		0.0557	mg/L	0.0010	111	70	130			
Sodium		14.1	mg/L	1.0	94	70	130			
Uranium		0.0516	mg/L	0.00030	100	70	130			
Vanadium		0.0530	mg/L	0.0010	106	70	130			
Zinc		0.926	mg/L	0.010		70	130			A
Sample ID: C11050206-001BMSD	21	Sample Matrix Spike Duplicate			Run: ICPMS4-C_110509A				05/10/11 04:05	
Aluminum		0.119	mg/L	0.10	99	70	130	1.1	20	
Arsenic		0.0549	mg/L	0.0010	110	70	130	0.5	20	
Barium		0.0749	mg/L	0.0010	103	70	130	1.4	20	
Boron		0.0557	mg/L	0.0010	104	70	130	0.8	20	
Cadmium		0.0553	mg/L	0.010	105	70	130	1.9	20	
Calcium		69.9	mg/L	1.0		70	130	0.7	20	A
Chromium		0.0532	mg/L	0.050	106	70	130	0.0	20	
Copper		0.0583	mg/L	0.010	105	70	130	0.0	20	
Iron		1.33	mg/L	0.030	100	70	130	1.8	20	
Lead		0.0521	mg/L	0.050	104	70	130	1.8	20	
Magnesium		15.2	mg/L	1.0	93	70	130	1.5	20	
Manganese		3.40	mg/L	0.010		70	130	1.0	20	A
Mercury		0.00496	mg/L	0.0010	99	70	130	1.8	20	
Molybdenum		0.0528	mg/L	0.0010	104	70	130	1.6	20	
Nickel		0.0549	mg/L	0.050	105	70	130	0.3	20	
Potassium		13.0	mg/L	1.0	98	70	130	0.8	20	
Selenium		0.0550	mg/L	0.0010	110	70	130	1.3	20	
Sodium		13.8	mg/L	1.0	92	70	130	1.9	20	
Uranium		0.0506	mg/L	0.00030	98	70	130	2.0	20	
Vanadium		0.0525	mg/L	0.0010	105	70	130	0.8	20	
Zinc		0.925	mg/L	0.010		70	130	0.1	20	A

Qualifiers:

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ND - Not detected at the reporting limit.

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MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/27/11

Project: Marsland Baseline Samples

Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R145652A
Sample ID: LRB	21	Method Blank		Run: ICPMS4-C_110509A				05/09/11 13:43		
Aluminum		0.005	mg/L	8E-05						
Arsenic		ND	mg/L	4E-05						
Barium		ND	mg/L	3E-05						
Boron		0.001	mg/L							
Cadmium		ND	mg/L	7E-05						
Calcium		0.01	mg/L	0.004						
Chromium		ND	mg/L	5E-05						
Copper		ND	mg/L	6E-05						
Iron		0.0007	mg/L	0.0001						
Lead		ND	mg/L	2E-05						
Magnesium		ND	mg/L	0.001						
Manganese		ND	mg/L	2E-05						
Mercury		ND	mg/L	2E-05						
Molybdenum		0.0001	mg/L	8E-05						
Nickel		ND	mg/L	5E-05						
Potassium		ND	mg/L	0.007						
Selenium		ND	mg/L	5E-05						
Sodium		0.005	mg/L	0.004						
Uranium		2E-05	mg/L	8E-06						
Vanadium		ND	mg/L	1E-05						
Zinc		ND	mg/L	0.0001						
Sample ID: LFB	21	Laboratory Fortified Blank		Run: ICPMS4-C_110509A				05/09/11 13:50		
Aluminum		0.0520	mg/L	0.0010	94	85	115			
Arsenic		0.0533	mg/L	0.0010	107	85	115			
Barium		0.0519	mg/L	0.0010	104	85	115			
Boron		0.0530	mg/L	0.0010	103	85	115			
Cadmium		0.0526	mg/L	0.0010	105	85	115			
Calcium		11.8	mg/L	0.12	94	85	115			
Chromium		0.0520	mg/L	0.0010	104	85	115			
Copper		0.0528	mg/L	0.0010	105	85	115			
Iron		1.26	mg/L	0.012	101	85	115			
Lead		0.0524	mg/L	0.0010	105	85	115			
Magnesium		12.2	mg/L	0.12	98	85	115			
Manganese		0.0524	mg/L	0.0010	105	85	115			
Mercury		0.00520	mg/L	0.0010	104	85	115			
Molybdenum		0.0504	mg/L	0.0010	100	85	115			
Nickel		0.0520	mg/L	0.0010	104	85	115			
Potassium		12.0	mg/L	0.12	96	85	115			
Selenium		0.0545	mg/L	0.0010	109	85	115			
Sodium		12.2	mg/L	0.12	98	85	115			
Uranium		0.0517	mg/L	0.00030	103	85	115			
Vanadium		0.0519	mg/L	0.0010	104	85	115			
Zinc		0.0554	mg/L	0.0010	111	85	115			

Qualifiers:

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MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/27/11

Project: Marsland Baseline Samples

Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_110507A		
Sample ID: ICV-110407	2	Initial Calibration Verification Standard								05/07/11 16:03
Chloride		9.77	mg/L	1.0	98	90	110			
Sulfate		39.8	mg/L	1.0	99	90	110			
Method: E300.0								Batch: R145613		
Sample ID: ICB-110407	2	Method Blank					Run: IC2-C_110507A			05/07/11 16:19
Chloride		0.07	mg/L	0.04						
Sulfate		0.2	mg/L	0.1						
Sample ID: LFB-110407	2	Laboratory Fortified Blank					Run: IC2-C_110507A			05/07/11 16:34
Chloride		9.72	mg/L	1.0	96	90	110			
Sulfate		39.2	mg/L	1.0	97	90	110			
Sample ID: C11050219-002BMS	2	Sample Matrix Spike					Run: IC2-C_110507A			05/07/11 17:21
Chloride		44.6	mg/L	1.0	103	80	120			
Sulfate		130	mg/L	1.6	101	80	120			
Sample ID: C11050219-002BMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_110507A			05/07/11 17:36
Chloride		44.7	mg/L	1.0	103	80	120	0.1	10	
Sulfate		131	mg/L	1.6	103	80	120	0.7	10	
Sample ID: LFB-110508	2	Laboratory Fortified Blank					Run: IC2-C_110507A			05/08/11 10:54
Chloride		9.82	mg/L	1.0	98	90	110			
Sulfate		39.4	mg/L	1.0	98	90	110			

Qualifiers:

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ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R145640
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_110509A 05/09/11 12:56
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_110509A 05/09/11 12:59
Nitrogen, Nitrate+Nitrite as N		2.69	mg/L	0.10	108	90	110			
Sample ID: C11050204-008DMS		Sample Matrix Spike								Run: TECHNICON_110509A 05/09/11 13:59
Nitrogen, Nitrate+Nitrite as N		1.84	mg/L	0.10	94	90	110			
Sample ID: C11050204-008DMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_110509A 05/09/11 14:01
Nitrogen, Nitrate+Nitrite as N		1.91	mg/L	0.10	97	90	110	3.7	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/27/11

Project: Marsland Baseline Samples

Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: 29809										
Sample ID: C11050219-002HMS		Sample Matrix Spike								
Radium 226		11	pCi/L	108	70	130				05/18/11 11:14
Sample ID: C11050219-002HMSD		Sample Matrix Spike Duplicate								
Radium 226		11	pCi/L	104	70	130	3.1	25.1		05/18/11 11:14
Sample ID: LCS-29809		Laboratory Control Sample								
Radium 226		13	pCi/L	107	85	115				05/18/11 11:14
Sample ID: MB-29809	3	Method Blank								
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Method: E903.0 Batch: RA226-5365										
Sample ID: C11050570-001FMS		Sample Matrix Spike								
Radium 226		12	pCi/L	88	70	130				05/24/11 12:53
Sample ID: C11050570-001FMSD		Sample Matrix Spike Duplicate								
Radium 226		12	pCi/L	90	70	130	1.0	23.9		05/24/11 12:53
Sample ID: MB-RA226-5365	3	Method Blank								
Radium 226		0.05	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5365		Laboratory Control Sample								
Radium 226		5.9	pCi/L	92	85	115				05/24/11 12:53

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

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U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Samples

Report Date: 06/27/11
Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1388		
Sample ID: LCS-RA-TH-ISO-1388	Laboratory Control Sample					Run: EGG-ORTEC_110511A		05/13/11 08:50		
Thorium 230		5.3	pCi/L		93	70	130			
Sample ID: C11050219-001DMS	Sample Matrix Spike					Run: EGG-ORTEC_110511A		05/13/11 08:50		
Thorium 230		12	pCi/L		101	70	130			
Sample ID: C11050219-001DMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110511A		05/13/11 08:50		
Thorium 230		12	pCi/L		107	70	130	4.1	36.5	
Sample ID: MB-RA-TH-ISO-1388	3	Method Blank				Run: EGG-ORTEC_110511A		05/13/11 13:34		
Thorium 230		0.02	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E908.0								Batch: R146383		
Sample ID: LCS-29764	Laboratory Control Sample					Run: EGG-ORTEC_110518B		05/23/11 09:12		
Thorium 230		11	pCi/L		108	70	130			
Sample ID: MB-29764	3	Method Blank				Run: EGG-ORTEC_110518B		05/23/11 09:12		
Thorium 230		0.07	pCi/L							U
Thorium 230 precision (±)		0.2	pCi/L							
Thorium 230 MDC		0.3	pCi/L							
Sample ID: C11050219-001HMS	Sample Matrix Spike					Run: EGG-ORTEC_110518B		05/23/11 14:06		
Thorium 230		7.4	pCi/L		86	70	130			
Sample ID: C11050219-001HMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_110518B		05/23/11 14:06		
Thorium 230		9.5	pCi/L		111	70	130	25	45.2	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/27/11

Project: Marsland Baseline Samples

Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0104		
Sample ID: T11040111-001DMSD	Sample Matrix Spike Duplicate			Run: SUB-T40681		05/31/11 16:39				
Lead 210	140	pCi/L	101	70	130	7.6	16			
Sample ID: T11040111-001DMS	Sample Matrix Spike			Run: SUB-T40681		05/31/11 14:28				
Lead 210	130	pCi/L	92	70	130					
Sample ID: LCS-PB-210-0104	Laboratory Control Sample			Run: SUB-T40681		05/31/11 03:31				
Lead 210	53	pCi/L	100	70	130					
Sample ID: MB-PB-210-0104	3	Method Blank		Run: SUB-T40681		05/31/11 01:19				
Lead 210	-0.7	pCi/L	U							
Lead 210 precision (±)	0.9	pCi/L								
Lead 210 MDC	2	pCi/L								
Method: E909.0								Batch: T_14124		
Sample ID: T11050054-001HMSD	Sample Matrix Spike Duplicate			Run: SUB-T40969		06/23/11 19:03				
Lead 210	870	pCi/L	81	70	130	8.9	17.3			
Sample ID: T11050054-001HMS	Sample Matrix Spike			Run: SUB-T40969		06/23/11 17:57				
Lead 210	950	pCi/L	90	70	130					
Sample ID: LCS-14124	Laboratory Control Sample			Run: SUB-T40969		06/23/11 15:45				
Lead 210	301	pCi/Filter	83	70	130					
Sample ID: MB-14124	3	Method Blank		Run: SUB-T40969		06/23/11 14:39				
Lead 210	5	pCi/Filter	U							
Lead 210 precision (±)	6	pCi/Filter								
Lead 210 MDC	10	pCi/Filter								

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

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U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 06/27/11

Project: Marsland Baseline Samples

Work Order: C11050219

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										Batch: PO210-0372
Sample ID: C11050219-003EMS		Sample Matrix Spike								
Polonium 210		12	pCi/L	96		70	130			05/19/11 09:05
Sample ID: C11050219-003EMSD		Sample Matrix Spike Duplicate								
Polonium 210		14	pCi/L	107		70	130	11		05/19/11 11:21 69.5
Sample ID: MB-PO210-0372	3	Method Blank								
Polonium 210		-0.02	pCi/L							05/19/11 11:21 U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Sample ID: LCS-PO210-0372		Laboratory Control Sample								
Polonium 210		5.6	pCi/L	88		70	130			05/19/11 11:21
Method: E912.0										Batch: 29809
Sample ID: C11050187-001AMS		Sample Matrix Spike								
Polonium 210		70	pCi/Filter	108		70	130			05/19/11 11:22
Sample ID: C11050187-001AMSD		Sample Matrix Spike Duplicate								
Polonium 210		71	pCi/Filter	110		70	130	1.8		05/19/11 11:22 65.3
Sample ID: LCS-29809		Laboratory Control Sample								
Polonium 210		31	pCi/Filter	105		70	130			05/19/11 11:22
Sample ID: MB-29809	3	Method Blank								
Polonium 210		-0.1	pCi/Filter							05/19/11 11:22 U
Polonium 210 precision (±)		0.9	pCi/Filter							
Polonium 210 MDC		2	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11050219

Login completed by: Edith McPike
Reviewed by: BL2000\hackerman
Reviewed Date: 5/9/2011

Date Received: 5/6/2011

Received by: dw

Carrier Ground
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 9.2°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved as necessary for dissolved radionuclides per quote.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO 2

DATE: 5/3/11

ANALYST: _____

STANDARD CURVE DATA

	BL	0.01	0.05	0.1			
Abs	0	.036	.171	.338			
Abs							

SAMPLE #	VOLUME	Df	Abs	
1 Bow 4A	10ml	1	.146	.04
2 Bow 7	10ml	1	.242	.07
3 Bow 8	10ml	1	.005	<0.01
4 Dup Bow 7	10ml	1	.244	.07
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

November 10, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11090996 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Private Well Samples

Energy Laboratories, Inc. Casper WY received the following 6 samples for Crow Butte Resources on 9/27/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11090996-001	Well #741	09/22/11 00:00	09/27/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11090996-002	Well #759	09/22/11 00:00	09/27/11	Aqueous	Same As Above
C11090996-003	Well #703	09/22/11 00:00	09/27/11	Aqueous	Same As Above
C11090996-004	Well #723	09/22/11 00:00	09/27/11	Aqueous	Same As Above
C11090996-005	Well #745	09/22/11 00:00	09/27/11	Aqueous	Same As Above
C11090996-006	Well #727	09/22/11 00:00	09/27/11	Aqueous	Same As Above

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. All samples are reported on an as received basis unless otherwise indicated.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Sample Delivery Group: C11090996

Report Date: 11/10/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

PREP COMMENTS

The prep hold time for the filtration of Dissolved Radiochemistry was exceeded by up to 3.33 days.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-001
Client Sample ID: Well #741

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	179	mg/L		1		A2320 B	09/27/11 16:48 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 16:48 / jba
Bicarbonate as HCO3	218	mg/L		1		A2320 B	09/27/11 16:48 / jba
Calcium	50	mg/L		1		E200.7	10/26/11 17:07 / cp
Chloride	5	mg/L		1		E300.0	10/05/11 01:57 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	09/28/11 10:12 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:07 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 15:44 / dc
Nitrogen, Nitrate+Nitrite as N	3.2	mg/L	D	0.2		E353.2	10/20/11 11:38 / ljl
Potassium	5	mg/L		1		E200.7	10/26/11 17:07 / cp
Silica	66.2	mg/L		0.2		E200.7	10/26/11 17:07 / cp
Sodium	22	mg/L		1		E200.7	10/26/11 17:07 / cp
Sulfate	13	mg/L		1		E300.0	10/05/11 01:57 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	403	umhos/cm		1		A2510 B	09/27/11 15:25 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:25 / lmc
Solids, Total Dissolved TDS @ 180 C	277	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:07 / cp
Arsenic	0.006	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Barium	0.2	mg/L		0.1		E200.8	10/11/11 04:17 / sml
Boron	0.1	mg/L		0.1		E200.7	10/26/11 17:07 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:17 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:07 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:17 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:07 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 10:52 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:17 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:17 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:17 / sml
Uranium	0.0091	mg/L		0.0003		E200.8	10/11/11 04:17 / sml
Uranium, Activity	6.2E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:17 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 10:52 / cp
Zinc	0.03	mg/L		0.01		E200.7	10/26/11 17:07 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:24 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-001
Client Sample ID: Well #741

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 04:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 04:40 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 04:40 / eli-cs
Polonium 210	0.6	pCi/L		0.5		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	2.4	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.3	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 09:53 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 09:53 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 09:53 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.08	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.2	pCi/L		0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.0941	%				Calculation	11/02/11 12:37 / kbh
Anions	4.24	meq/L				Calculation	11/02/11 12:37 / kbh
Cations	4.25	meq/L				Calculation	11/02/11 12:37 / kbh
Solids, Total Dissolved Calculated	308	mg/L				Calculation	11/02/11 12:37 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	11/02/11 12:37 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-002
Client Sample ID: Well #759

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	144	mg/L		1		A2320 B	09/27/11 17:04 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	09/27/11 17:04 / jba
Bicarbonate as HCO ₃	175	mg/L		1		A2320 B	09/27/11 17:04 / jba
Calcium	31	mg/L		1		E200.7	10/26/11 17:19 / cp
Chloride	2	mg/L		1		E300.0	10/05/11 02:50 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	09/28/11 10:25 / jba
Magnesium	6	mg/L		1		E200.7	10/26/11 17:19 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	10/11/11 15:46 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/20/11 11:41 / ljl
Potassium	5	mg/L		1		E200.7	10/26/11 17:19 / cp
Silica	75.3	mg/L		0.2		E200.7	10/26/11 17:19 / cp
Sodium	23	mg/L		1		E200.7	10/26/11 17:19 / cp
Sulfate	8	mg/L		1		E300.0	10/05/11 02:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	299	umhos/cm		1		A2510 B	09/27/11 15:27 / lmc
pH	8.05	s.u.		0.01		A4500-H B	09/27/11 15:27 / lmc
Solids, Total Dissolved TDS @ 180 C	217	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:19 / cp
Arsenic	0.004	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Barium	0.2	mg/L		0.1		E200.8	10/11/11 04:24 / sml
Boron	0.1	mg/L		0.1		E200.7	10/26/11 17:19 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:24 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:19 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:24 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:19 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:04 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:24 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:24 / sml
Selenium	0.001	mg/L		0.001		E200.8	10/11/11 04:24 / sml
Uranium	0.0075	mg/L		0.0003		E200.8	10/11/11 04:24 / sml
Uranium, Activity	5.1E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:24 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:04 / cp
Zinc	0.04	mg/L		0.01		E200.7	10/26/11 17:19 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:25 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:25 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-002
Client Sample ID: Well #759

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 08:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	10/19/11 08:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 08:00 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	0.7	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 12:08 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 12:08 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 12:08 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.123	%				Calculation	11/02/11 12:38 / kbh
Anions	3.17	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.18	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	260	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.830					Calculation	11/02/11 12:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-003
Client Sample ID: Well #703

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	148	mg/L		1		A2320 B	09/27/11 17:11 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	09/27/11 17:11 / jba
Bicarbonate as HCO ₃	181	mg/L		1		A2320 B	09/27/11 17:11 / jba
Calcium	41	mg/L		1		E200.7	10/26/11 17:27 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:31 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	09/28/11 10:28 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:27 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	10/11/11 15:48 / dc
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	10/20/11 11:43 / ljl
Potassium	3	mg/L		1		E200.7	10/26/11 17:27 / cp
Silica	68.5	mg/L		0.2		E200.7	10/26/11 17:27 / cp
Sodium	13	mg/L		1		E200.7	10/26/11 17:27 / cp
Sulfate	7	mg/L		1		E300.0	10/05/11 03:31 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	315	umhos/cm		1		A2510 B	09/27/11 15:30 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:30 / lmc
Solids, Total Dissolved TDS @ 180 C	231	mg/L		10		A2540 C	09/27/11 17:18 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:27 / cp
Arsenic	0.004	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 04:31 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:27 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:31 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:27 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 04:31 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:27 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:12 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:31 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:31 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:31 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	10/11/11 04:31 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	10/11/11 04:31 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:12 / cp
Zinc	0.07	mg/L		0.01		E200.7	10/26/11 17:27 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:26 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:26 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-003
Client Sample ID: Well #703

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 11:20 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 11:20 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 11:20 / eli-cs
Polonium 210	0.7	pCi/L		0.6		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	<0.2	pCi/L	U	0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 14:22 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 14:22 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 14:22 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.05	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.3	pCi/L		0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.341	%				Calculation	11/02/11 12:38 / kbh
Anions	3.33	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.36	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	259	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	11/02/11 12:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-004
Client Sample ID: Well #723

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	154	mg/L		1		A2320 B	09/27/11 17:20 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	09/27/11 17:20 / jba
Bicarbonate as HCO ₃	187	mg/L		1		A2320 B	09/27/11 17:20 / jba
Calcium	34	mg/L		1		E200.7	10/26/11 17:31 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:44 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	09/28/11 10:30 / jba
Magnesium	8	mg/L		1		E200.7	10/26/11 17:31 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	10/11/11 15:56 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/20/11 11:46 / ljl
Potassium	3	mg/L		1		E200.7	10/26/11 17:31 / cp
Silica	78.3	mg/L		0.2		E200.7	10/26/11 17:31 / cp
Sodium	17	mg/L		1		E200.7	10/26/11 17:31 / cp
Sulfate	9	mg/L		1		E300.0	10/05/11 03:44 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	308	umhos/cm		1		A2510 B	09/27/11 15:33 / lmc
pH	7.99	s.u.		0.01		A4500-H B	09/27/11 15:33 / lmc
Solids, Total Dissolved TDS @ 180 C	235	mg/L		10		A2540 C	09/27/11 17:19 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:31 / cp
Arsenic	0.007	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 04:58 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:31 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 04:58 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:31 / cp
Copper	0.04	mg/L		0.01		E200.8	10/11/11 04:58 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:31 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:16 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 04:58 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 04:58 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 04:58 / sml
Uranium	0.0073	mg/L		0.0003		E200.8	11/04/11 00:21 / sml
Uranium, Activity	5.0E-09	uCi/mL		2.0E-10		E200.8	11/04/11 00:21 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:16 / cp
Zinc	0.10	mg/L		0.01		E200.7	10/26/11 17:31 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:27 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:27 / sml

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-004
Client Sample ID: Well #723

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 14:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 14:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 14:40 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	10/27/11 13:23 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	10/27/11 13:23 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	10/27/11 13:23 / ep
Radium 226	0.2	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 16:37 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 16:37 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 16:37 / eli-cs
Polonium 210	<0.1	pCi/L	U	0.1		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.11	%				Calculation	11/02/11 12:38 / kbh
Anions	3.41	meq/L				Calculation	11/02/11 12:38 / kbh
Cations	3.21	meq/L				Calculation	11/02/11 12:38 / kbh
Solids, Total Dissolved Calculated	269	mg/L				Calculation	11/02/11 12:38 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	11/02/11 12:38 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-005
Client Sample ID: Well #745

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	172	mg/L		1		A2320 B	09/27/11 17:28 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	09/27/11 17:28 / jba
Bicarbonate as HCO ₃	209	mg/L		1		A2320 B	09/27/11 17:28 / jba
Calcium	64	mg/L		1		E200.7	10/26/11 17:35 / cp
Chloride	3	mg/L		1		E300.0	10/05/11 03:58 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	09/28/11 10:37 / jba
Magnesium	11	mg/L		1		E200.7	10/26/11 17:35 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	10/11/11 16:02 / dc
Nitrogen, Nitrate+Nitrite as N	6.5	mg/L	DH	0.5		E353.2	10/21/11 10:39 / dc
Potassium	2	mg/L		1		E200.7	10/26/11 17:35 / cp
Silica	70.9	mg/L		0.2		E200.7	10/26/11 17:35 / cp
Sodium	8	mg/L		1		E200.7	10/26/11 17:35 / cp
Sulfate	16	mg/L		1		E300.0	10/05/11 03:58 / ljl

- H-Original analysis was done within hold time. Data is from recheck analysis.

PHYSICAL PROPERTIES

Conductivity @ 25 C	419	umhos/cm		1		A2510 B	09/27/11 15:36 / lmc
pH	7.94	s.u.		0.01		A4500-H B	09/27/11 15:36 / lmc
Solids, Total Dissolved TDS @ 180 C	315	mg/L		10		A2540 C	09/27/11 17:19 / lmc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:35 / cp
Arsenic	0.003	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Barium	ND	mg/L		0.1		E200.8	10/11/11 05:04 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:35 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 05:04 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:35 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 05:04 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:35 / cp
Lead	0.001	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:20 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 05:04 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 05:04 / sml
Selenium	0.002	mg/L		0.001		E200.8	10/11/11 05:04 / sml
Uranium	0.0349	mg/L		0.0003		E200.8	10/11/11 05:04 / sml
Uranium, Activity	2.4E-08	uCi/mL		2.0E-10		E200.8	10/11/11 05:04 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:20 / cp
Zinc	0.51	mg/L		0.01		E200.7	10/26/11 17:35 / cp

METALS - SUSPENDED

Uranium	0.0003	mg/L		0.0003		E200.8	10/01/11 17:28 / sml
Uranium, Activity	2.1E-10	uCi/mL		2.0E-10		E200.8	10/01/11 17:28 / sml

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-005
Client Sample ID: Well #745

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	10/19/11 18:00 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/19/11 18:00 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	10/19/11 18:00 / eli-cs
Polonium 210	0.5	pCi/L		0.4		E912.0	10/28/11 09:11 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	10/28/11 09:11 / ep
Polonium 210 MDC	0.4	pCi/L				E912.0	10/28/11 09:11 / ep
Radium 226	0.4	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 18:52 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 18:52 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 18:52 / eli-cs
Polonium 210	0.3	pCi/L		0.1		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.1	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	0.2	pCi/L		0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.08	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	0.2	pCi/L		0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	2.15	%				Calculation	11/02/11 12:39 / kbh
Anions	4.35	meq/L				Calculation	11/02/11 12:39 / kbh
Cations	4.54	meq/L				Calculation	11/02/11 12:39 / kbh
Solids, Total Dissolved Calculated	327	mg/L				Calculation	11/02/11 12:39 / kbh
TDS Balance (0.80 - 1.20)	0.960					Calculation	11/02/11 12:39 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-006
Client Sample ID: Well #727

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	150	mg/L		1		A2320 B	09/27/11 17:36 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	09/27/11 17:36 / jba
Bicarbonate as HCO3	182	mg/L		1		A2320 B	09/27/11 17:36 / jba
Calcium	31	mg/L		1		E200.7	10/26/11 17:39 / cp
Chloride	5	mg/L		1		E300.0	10/05/11 04:11 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	09/28/11 10:42 / jba
Magnesium	13	mg/L		1		E200.7	10/26/11 17:39 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	10/11/11 16:04 / dc
Nitrogen, Nitrate+Nitrite as N	1.4	mg/L	H	0.1		E353.2	10/21/11 10:47 / dc
Potassium	4	mg/L		1		E200.7	10/26/11 17:39 / cp
Silica	81.8	mg/L		0.2		E200.7	10/26/11 17:39 / cp
Sodium	17	mg/L		1		E200.7	10/26/11 17:39 / cp
Sulfate	9	mg/L		1		E300.0	10/05/11 04:11 / ljl

- H-Original analysis was done within hold time. Data is from recheck analysis.

PHYSICAL PROPERTIES

Conductivity @ 25 C	325	umhos/cm		1		A2510 B	09/27/11 15:38 / lmc
pH	8.01	s.u.		0.01		A4500-H B	09/27/11 15:38 / lmc
Solids, Total Dissolved TDS @ 180 C	244	mg/L		10		A2540 C	09/27/11 17:19 / lmc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:39 / cp
Arsenic	0.003	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Barium	0.1	mg/L		0.1		E200.8	10/11/11 05:11 / sml
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:39 / cp
Cadmium	ND	mg/L		0.005		E200.8	10/11/11 05:11 / sml
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:39 / cp
Copper	ND	mg/L		0.01		E200.8	10/11/11 05:11 / sml
Iron	ND	mg/L		0.03		E200.7	10/26/11 17:39 / cp
Lead	ND	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Manganese	ND	mg/L		0.01		E200.7	10/31/11 11:25 / cp
Mercury	ND	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	10/11/11 05:11 / sml
Nickel	ND	mg/L		0.05		E200.8	10/11/11 05:11 / sml
Selenium	0.003	mg/L		0.001		E200.8	10/11/11 05:11 / sml
Uranium	0.0119	mg/L		0.0003		E200.8	10/11/11 05:11 / sml
Uranium, Activity	8.0E-09	uCi/mL		2.0E-10		E200.8	10/11/11 05:11 / sml
Vanadium	ND	mg/L		0.1		E200.7	10/31/11 11:25 / cp
Zinc	0.30	mg/L		0.01		E200.7	10/26/11 17:39 / cp

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	10/01/11 17:29 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/01/11 17:29 / sml

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11090996-006
Client Sample ID: Well #727

Report Date: 11/10/11
Collection Date: 09/22/11
Date Received: 09/27/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/19/11 21:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	10/19/11 21:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/19/11 21:20 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	10/28/11 09:11 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	10/28/11 09:11 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/28/11 09:11 / ep
Radium 226	0.2	pCi/L		0.2		E903.0	10/17/11 12:13 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 12:13 / js
Radium 226 MDC	0.2	pCi/L				E903.0	10/17/11 12:13 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	11/04/11 08:39 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	11/04/11 08:39 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	11/04/11 08:39 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/10/11 21:06 / eli-cs
Lead 210 precision (±)	0.3	pCi/L				E909.0	10/10/11 21:06 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/10/11 21:06 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 13:25 / ep
Polonium 210 precision (±)	0.07	pCi/L				E912.0	10/28/11 13:25 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 13:25 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/11/11 17:37 / js
Radium 226 precision (±)	0.04	pCi/L				E903.0	10/11/11 17:37 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/11/11 17:37 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	10/22/11 15:09 / dmf
Thorium 230 precision (±)	0.1	pCi/L				E908.0	10/22/11 15:09 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	10/22/11 15:09 / dmf
DATA QUALITY							
A/C Balance (± 5)	0.00487	%				Calculation	11/02/11 12:39 / kbh
Anions	3.44	meq/L				Calculation	11/02/11 12:39 / kbh
Cations	3.44	meq/L				Calculation	11/02/11 12:39 / kbh
Solids, Total Dissolved Calculated	279	mg/L				Calculation	11/02/11 12:39 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	11/02/11 12:39 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R151186
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110927B 09/27/11 11:17
Alkalinity, Total as CaCO3		4	mg/L	2						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110927B 09/27/11 11:33
Alkalinity, Total as CaCO3		194	mg/L	5.0	95	90	110			
Sample ID: C11090984-002AMS		Sample Matrix Spike								Run: MANTECH_110927B 09/27/11 15:36
Alkalinity, Total as CaCO3		369	mg/L	5.0	99	80	120			
Sample ID: C11090996-001BDUP		Sample Duplicate								Run: MANTECH_110927B 09/27/11 16:56
Alkalinity, Total as CaCO3		178	mg/L	5.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Analytical Run: ORION555A_110927B			
Sample ID: ICV2_110927_2	Initial Calibration Verification Standard									
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			09/27/11 13:52
Method: A2510 B							Batch: 110927_2_PH-W_555A-1			
Sample ID: MBLK1_110927_2	Method Blank									
Conductivity @ 25 C		0.5	umhos/cm	0.2						Run: ORION555A_110927B 09/27/11 13:48
Sample ID: C11090985-001ADUP	Sample Duplicate									
Conductivity @ 25 C		2610	umhos/cm	1.0				0.1	10	Run: ORION555A_110927B 09/27/11 15:17

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples

Report Date: 11/10/11
Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 110927_1_SLDS-TDS-W		
Sample ID: MBLK1_110927		Method Blank					Run: BAL-1_110927C			09/27/11 17:07
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_110927		Laboratory Control Sample					Run: BAL-1_110927C			09/27/11 17:07
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C11090930-008AMS		Sample Matrix Spike					Run: BAL-1_110927C			09/27/11 17:17
Solids, Total Dissolved TDS @ 180 C		2260	mg/L	10	100	90	110			
Sample ID: C11090996-006ADUP		Sample Duplicate					Run: BAL-1_110927C			09/27/11 17:19
Solids, Total Dissolved TDS @ 180 C		238	mg/L	10				2.6	5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples

Report Date: 11/10/11
Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										
Batch: R151228										
Sample ID: MBLK		Method Blank								
Fluoride		0.01	mg/L	0.008						
							Run: MANTECH_110928A			09/28/11 09:58
Sample ID: LCS		Laboratory Control Sample								
Fluoride		1.96	mg/L	0.10	98	90	110			09/28/11 10:00
							Run: MANTECH_110928A			09/28/11 10:17
Sample ID: C11090996-001BMS		Sample Matrix Spike								
Fluoride		2.52	mg/L	0.10	98	80	120			09/28/11 10:17
							Run: MANTECH_110928A			09/28/11 10:22
Sample ID: C11090996-001BMSD		Sample Matrix Spike Duplicate								
Fluoride		2.57	mg/L	0.10	100	80	120	2.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-H B							Analytical Run: ORION555A_110927B				
Sample ID: ICV1_110927_2		Initial Calibration Verification Standard						09/27/11 13:49			
pH		6.88	s.u.	0.010	100	98	102				
Method: A4500-H B							Batch: 110927_2_PH-W_555A-1				
Sample ID: C11090985-001ADUP		Sample Duplicate						Run: ORION555A_110927B 09/27/11 15:17			
pH		7.85	s.u.	0.010				1.2	3		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R151821
Sample ID: MBLK-1 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_111011A 10/11/11 11:52
Sample ID: LCS-2 Nitrogen, Ammonia as N		Laboratory Control Sample 2.10	mg/L	0.050	105	90	110			Run: TECHNICON_111011A 10/11/11 11:54
Sample ID: LFB-20 Nitrogen, Ammonia as N		Laboratory Fortified Blank 2.05	mg/L	0.050	105	80	120			Run: TECHNICON_111011A 10/11/11 12:30
Sample ID: C11090996-004DMS Nitrogen, Ammonia as N		Sample Matrix Spike 1.95	mg/L	0.050	99	90	110			Run: TECHNICON_111011A 10/11/11 15:58
Sample ID: C11090996-004DMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.98	mg/L	0.050	101	90	110	1.5	10	Run: TECHNICON_111011A 10/11/11 16:00

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7								Analytical Run: ICP2-C_111026A			
Sample ID: ICV	10	Initial Calibration Verification Standard									10/26/11 14:37
Aluminum		2.42	mg/L	0.10	97	95	105				
Boron		2.40	mg/L	0.10	96	95	105				
Calcium		25.5	mg/L	0.50	102	95	105				
Chromium		2.49	mg/L	0.050	100	95	105				
Iron		2.54	mg/L	0.030	101	95	105				
Magnesium		25.1	mg/L	0.50	100	95	105				
Potassium		24.0	mg/L	0.50	96	95	105				
Silicon		5.09	mg/L	0.10	102	95	105				
Sodium		24.4	mg/L	0.50	98	95	105				
Zinc		2.49	mg/L	0.010	99	95	105				
Sample ID: ICSA	10	Interference Check Sample A									10/26/11 15:03
Aluminum		506	mg/L	0.10	101	80	120				
Boron		0.00500	mg/L	0.10		0	0				
Calcium		488	mg/L	0.50	98	80	120				
Chromium		0.00570	mg/L	0.050		0	0				
Iron		194	mg/L	0.030	97	80	120				
Magnesium		503	mg/L	0.50	101	80	120				
Potassium		0.00670	mg/L	0.50		0	0				
Silicon		-0.0863	mg/L	0.10		0	0				
Sodium		0.120	mg/L	0.50		0	0				
Zinc		0.0138	mg/L	0.010		0	0				
Sample ID: ICSAB	10	Interference Check Sample AB									10/26/11 15:07
Aluminum		520	mg/L	0.10	104	80	120				
Boron		0.358	mg/L	0.10		0	0				
Calcium		497	mg/L	0.50	99	80	120				
Chromium		0.508	mg/L	0.050	102	80	120				
Iron		196	mg/L	0.030	98	80	120				
Magnesium		515	mg/L	0.50	103	80	120				
Potassium		0.0147	mg/L	0.50		0	0				
Silicon		-0.0835	mg/L	0.10		0	0				
Sodium		0.931	mg/L	0.50		0	0				
Zinc		1.07	mg/L	0.010	107	80	120				
Method: E200.7								Batch: R152562			
Sample ID: MB-111026A	10	Method Blank									Run: ICP2-C_111026A 10/26/11 15:40
Aluminum		0.01	mg/L	0.01							
Boron		ND	mg/L	0.01							
Calcium		ND	mg/L	0.1							
Chromium		ND	mg/L	0.002							
Iron		0.002	mg/L	0.001							
Magnesium		ND	mg/L	0.05							
Potassium		ND	mg/L	0.05							
Silicon		ND	mg/L	0.007							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R152562										
Sample ID: MB-111026A	10	Method Blank					Run: ICP2-C_111026A			10/26/11 15:40
Sodium		ND	mg/L	0.2						
Zinc		ND	mg/L	0.001						
Sample ID: LFB-111026A	10	Laboratory Fortified Blank					Run: ICP2-C_111026A			10/26/11 15:44
Aluminum		0.912	mg/L	0.10	90	85	115			
Boron		0.899	mg/L	0.10	90	85	115			
Calcium		46.8	mg/L	0.50	94	85	115			
Chromium		0.928	mg/L	0.050	93	85	115			
Iron		0.949	mg/L	0.030	95	85	115			
Magnesium		46.6	mg/L	0.50	93	85	115			
Potassium		44.7	mg/L	0.50	89	85	115			
Silicon		0.431	mg/L	0.10	96	85	115			
Sodium		42.6	mg/L	0.50	85	85	115			
Zinc		0.946	mg/L	0.010	95	85	115			
Sample ID: C11090996-001CMS2	10	Sample Matrix Spike					Run: ICP2-C_111026A			10/26/11 17:11
Aluminum		1.83	mg/L	0.10	90	70	130			
Boron		1.93	mg/L	0.10	89	70	130			
Calcium		148	mg/L	1.0	96	70	130			
Chromium		1.91	mg/L	0.050	93	70	130			
Iron		1.99	mg/L	0.030	98	70	130			
Magnesium		107	mg/L	1.0	97	70	130			
Potassium		94.0	mg/L	1.0	87	70	130			
Silicon		30.8	mg/L	0.10		70	130			A
Sodium		112	mg/L	1.0	89	70	130			
Zinc		1.99	mg/L	0.010	96	70	130			
Sample ID: C11090996-001CMSD	10	Sample Matrix Spike Duplicate					Run: ICP2-C_111026A			10/26/11 17:15
Aluminum		1.84	mg/L	0.10	90	70	130	0.5	20	
Boron		1.96	mg/L	0.10	90	70	130	1.2	20	
Calcium		150	mg/L	1.0	98	70	130	1.3	20	
Chromium		1.92	mg/L	0.050	94	70	130	0.3	20	
Iron		2.00	mg/L	0.030	98	70	130	0.3	20	
Magnesium		108	mg/L	1.0	98	70	130	0.6	20	
Potassium		97.3	mg/L	1.0	90	70	130	3.5	20	
Silicon		30.8	mg/L	0.10		70	130	0.2	20	A
Sodium		113	mg/L	1.0	90	70	130	1.2	20	
Zinc		1.99	mg/L	0.010	96	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: ICP2-C_111029A		
Sample ID: ICV	2	Initial Calibration Verification Standard								10/31/11 08:57
Manganese		2.48	mg/L	0.010	99	95	105			
Vanadium		2.41	mg/L	0.10	96	95	105			
Sample ID: ICSA	2	Interference Check Sample A								10/31/11 09:17
Manganese		-0.00400	mg/L	0.010		0	0			
Vanadium		-0.00480	mg/L	0.10		0	0			
Sample ID: ICSAB	2	Interference Check Sample AB								10/31/11 09:21
Manganese		0.495	mg/L	0.010	99	80	120			
Vanadium		0.507	mg/L	0.10	101	80	120			
Method: E200.7								Batch: R152670		
Sample ID: MB-111031A	2	Method Blank								10/31/11 09:48
Manganese		ND	mg/L	0.0003						
Vanadium		-0.001	mg/L							
Sample ID: LFB-111031A	2	Laboratory Fortified Blank								10/31/11 09:52
Manganese		0.990	mg/L	0.010	99	85	115			
Vanadium		0.962	mg/L	0.10	96	85	115			
Sample ID: C11090996-001CMS2	2	Sample Matrix Spike								10/31/11 10:56
Manganese		1.89	mg/L	0.010	93	70	130			
Vanadium		1.96	mg/L	0.10	96	70	130			
Sample ID: C11090996-001CMSD	2	Sample Matrix Spike Duplicate								10/31/11 11:00
Manganese		1.93	mg/L	0.010	94	70	130	1.7	20	
Vanadium		1.96	mg/L	0.10	96	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8								Analytical Run: ICPMS2-C_111010A			
Sample ID: ICV	10	Initial Calibration Verification Standard									10/11/11 00:53
Arsenic		0.0488	mg/L	0.0010	98	90	110				
Barium		0.0497	mg/L	0.0010	99	90	110				
Cadmium		0.0493	mg/L	0.0010	99	90	110				
Copper		0.0487	mg/L	0.0010	97	90	110				
Lead		0.0496	mg/L	0.0010	99	90	110				
Mercury		0.00526	mg/L	0.0010	105	90	110				
Molybdenum		0.0506	mg/L	0.0010	101	90	110				
Nickel		0.0491	mg/L	0.0010	98	90	110				
Selenium		0.0492	mg/L	0.0010	98	90	110				
Uranium		0.0511	mg/L	0.00030	102	90	110				
Method: E200.8								Batch: R151789			
Sample ID: LRB	10	Method Blank							Run: ICPMS2-C_111010A		10/10/11 12:35
Arsenic		0.0002	mg/L	0.0001							
Barium		ND	mg/L	0.0001							
Cadmium		ND	mg/L	0.0001							
Copper		ND	mg/L	7E-05							
Lead		ND	mg/L	9E-05							
Mercury		ND	mg/L	2E-05							
Molybdenum		ND	mg/L	2E-05							
Nickel		ND	mg/L	4E-05							
Selenium		ND	mg/L	0.0003							
Uranium		ND	mg/L	0.0001							
Sample ID: LFB	10	Laboratory Fortified Blank							Run: ICPMS2-C_111010A		10/10/11 12:42
Arsenic		0.0501	mg/L	0.0010	100	85	115				
Barium		0.0505	mg/L	0.0010	101	85	115				
Cadmium		0.0496	mg/L	0.0010	99	85	115				
Copper		0.0492	mg/L	0.0010	98	85	115				
Lead		0.0491	mg/L	0.0010	98	85	115				
Mercury		0.00497	mg/L	0.0010	99	85	115				
Molybdenum		0.0517	mg/L	0.0010	103	85	115				
Nickel		0.0490	mg/L	0.0010	98	85	115				
Selenium		0.0485	mg/L	0.0010	97	85	115				
Uranium		0.0497	mg/L	0.00030	99	85	115				
Sample ID: C11090996-003CMS4	10	Sample Matrix Spike							Run: ICPMS2-C_111010A		10/11/11 04:37
Arsenic		0.0619	mg/L	0.0010	116	70	130				
Barium		0.185	mg/L	0.10	117	70	130				
Cadmium		0.0573	mg/L	0.010	114	70	130				
Copper		0.0568	mg/L	0.010	108	70	130				
Lead		0.0574	mg/L	0.050	114	70	130				
Mercury		0.00554	mg/L	0.0010	111	70	130				
Molybdenum		0.0576	mg/L	0.0010	113	70	130				
Nickel		0.0581	mg/L	0.050	115	70	130				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8 Batch: R151789										
Sample ID: C11090996-003CMS4	10	Sample Matrix Spike					Run: ICPMS2-C_111010A			10/11/11 04:37
Selenium		0.0566	mg/L	0.0010	110	70	130			
Uranium		0.0642	mg/L	0.00030	116	70	130			
Sample ID: C11090996-003CMSD 10 Sample Matrix Spike Duplicate Run: ICPMS2-C_111010A 10/11/11 04:44										
Arsenic		0.0599	mg/L	0.0010	111	70	130	3.4	20	
Barium		0.183	mg/L	0.10	113	70	130	1.0	20	
Cadmium		0.0553	mg/L	0.010	110	70	130	3.4	20	
Copper		0.0547	mg/L	0.010	104	70	130	3.9	20	
Lead		0.0550	mg/L	0.050	109	70	130	4.4	20	
Mercury		0.00534	mg/L	0.0010	107	70	130	3.6	20	
Molybdenum		0.0564	mg/L	0.0010	111	70	130	2.0	20	
Nickel		0.0563	mg/L	0.050	111	70	130	3.0	20	
Selenium		0.0540	mg/L	0.0010	105	70	130	4.8	20	
Uranium		0.0615	mg/L	0.00030	111	70	130	4.3	20	
Method: E200.8 Analytical Run: ICPMS4-C_111001A										
Sample ID: ICV		Initial Calibration Verification Standard								10/01/11 13:26
Uranium		0.0496	mg/L	0.00030	99	90	110			
Method: E200.8 Batch: 31331										
Sample ID: MB-31331		Method Blank					Run: ICPMS4-C_111001A			10/01/11 16:38
Uranium		ND	mg/L	7E-05						
Sample ID: LCS2-31331		Laboratory Control Sample					Run: ICPMS4-C_111001A			10/01/11 16:44
Uranium		0.108	mg/L	0.00030	108	85	115			
Sample ID: C11091005-002DMS		Sample Matrix Spike					Run: ICPMS4-C_111001A			10/01/11 17:38
Uranium		0.00574	mg/L	0.00030	121	70	130			
Sample ID: C11091005-002DMSD		Sample Matrix Spike Duplicate					Run: ICPMS4-C_111001A			10/01/11 17:39
Uranium		0.00579	mg/L	0.00030	122	70	130	0.8	20	

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8								Analytical Run: ICPMS4-C_111103A			
Sample ID: ICV		Initial Calibration Verification Standard							11/03/11 11:50		
Uranium		0.0469	mg/L	0.00030	94	90	110				
Method: E200.8								Batch: R152827A			
Sample ID: LRB		Method Blank							Run: ICPMS4-C_111103A		11/03/11 12:54
Uranium		ND	mg/L	9E-06							
Sample ID: LFB		Laboratory Fortified Blank							Run: ICPMS4-C_111103A		11/03/11 13:00
Uranium		0.0523	mg/L	0.00030	105	85	115				
Sample ID: C11091139-001BMS4		Sample Matrix Spike							Run: ICPMS4-C_111103A		11/04/11 00:35
Uranium		0.109	mg/L	0.0010	112	70	130				
Sample ID: C11091139-001BMSD		Sample Matrix Spike Duplicate							Run: ICPMS4-C_111103A		11/04/11 01:00
Uranium		0.108	mg/L	0.00030	111	70	130	0.6	20		

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_111004A		
Sample ID: ICV100411-20	2	Initial Calibration Verification Standard								10/04/11 15:26
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		41.2	mg/L	1.0	103	90	110			
Method: E300.0								Batch: R151566		
Sample ID: ICB100411-11	2	Method Blank						Run: IC2-C_111004A		10/04/11 13:25
Chloride		ND	mg/L	0.10						
Sulfate		0.3	mg/L	0.08						
Sample ID: LFB100411-12	2	Laboratory Fortified Blank						Run: IC2-C_111004A		10/04/11 13:39
Chloride		10.1	mg/L	1.0	101	90	110			
Sulfate		40.6	mg/L	1.0	101	90	110			
Sample ID: LFB	2	Laboratory Fortified Blank						Run: IC2-C_111004A		10/05/11 02:37
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.3	mg/L	1.0	100	90	110			
Sample ID: C11090996-002BMS	2	Sample Matrix Spike						Run: IC2-C_111004A		10/05/11 03:04
Chloride		11.1	mg/L	1.0	98	90	110			
Sulfate		45.9	mg/L	1.0	100	90	110			
Sample ID: C11090996-002BMSD	2	Sample Matrix Spike Duplicate						Run: IC2-C_111004A		10/05/11 03:17
Chloride		11.4	mg/L	1.0	100	90	110	2.2	10	
Sulfate		46.9	mg/L	1.0	102	90	110	2.1	10	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R152220
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_111020A 10/20/11 10:36
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_111020A 10/20/11 10:38
Nitrogen, Nitrate+Nitrite as N		2.35	mg/L	0.10	94	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank								Run: TECHNICON_111020A 10/20/11 10:41
Nitrogen, Nitrate+Nitrite as N		1.95	mg/L	0.10	99	90	110			
Sample ID: C11090996-005DMS		Sample Matrix Spike								Run: TECHNICON_111020A 10/20/11 11:58
Nitrogen, Nitrate+Nitrite as N		16.7	mg/L	0.50	104	90	110			
Sample ID: C11090996-005DMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_111020A 10/20/11 12:01
Nitrogen, Nitrate+Nitrite as N		16.9	mg/L	0.50	106	90	110	1.2	10	
Method: E353.2										Batch: R152301
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_111021A 10/21/11 10:32
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.06						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_111021A 10/21/11 10:34
Nitrogen, Nitrate+Nitrite as N		2.34	mg/L	0.10	94	90	110			
Sample ID: LFB-3		Laboratory Fortified Blank								Run: TECHNICON_111021A 10/21/11 10:37
Nitrogen, Nitrate+Nitrite as N		1.85	mg/L	0.10	94	90	110			
Sample ID: C11090996-005DMS		Sample Matrix Spike								Run: TECHNICON_111021A 10/21/11 10:42
Nitrogen, Nitrate+Nitrite as N		16.3	mg/L	0.50	101	90	110			
Sample ID: C11090996-005DMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_111021A 10/21/11 10:44
Nitrogen, Nitrate+Nitrite as N		16.3	mg/L	0.50	101	90	110	0.0	10	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: 31331
Sample ID: C11090839-007HMS	Sample Matrix Spike					Run: BERTHOLD 770-1_111005A				10/11/11 15:59
Radium 226	10		pCi/L	102		70	130			
Sample ID: C11090839-007HMSD	Sample Matrix Spike Duplicate					Run: BERTHOLD 770-1_111005A				10/11/11 15:59
Radium 226	9.6		pCi/L	98		70	130	4.2	26.8	
Sample ID: LCS-31331	Laboratory Control Sample					Run: BERTHOLD 770-1_111005A				10/11/11 22:26
Radium 226	11		pCi/L	90		85	115			
Sample ID: MB-31331	3	Method Blank				Run: BERTHOLD 770-1_111005A				10/11/11 22:26
Radium 226		-0.01	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.4	pCi/L							
Method: E903.0										Batch: RA226-5656
Sample ID: C11090996-002EMS	Sample Matrix Spike					Run: G542M_111007A				10/17/11 12:13
Radium 226	13		pCi/L	102		70	130			
Sample ID: C11090996-002EMSD	Sample Matrix Spike Duplicate					Run: G542M_111007A				10/17/11 12:13
Radium 226	14		pCi/L	109		70	130	7.0	24.5	
Sample ID: MB-RA226-5656	3	Method Blank				Run: G542M_111007A				10/17/11 12:13
Radium 226		0.02	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5656	Laboratory Control Sample					Run: G542M_111007A				10/17/11 12:13
Radium 226	6.3		pCi/L	100		80	120			

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0										Batch: 31331
Sample ID: C11090996-003HMS		Sample Matrix Spike								Run: ALPHANALYST_111019A 10/22/11 15:09
Thorium 230		10.0	pCi/L	112		70	130			
Sample ID: C11090996-003HMSD		Sample Matrix Spike Duplicate								Run: ALPHANALYST_111019A 10/22/11 15:09
Thorium 230		10	pCi/L	112		70	130	0.8	48.3	
Sample ID: LCS-31331		Laboratory Control Sample								Run: ALPHANALYST_111019A 10/22/11 15:10
Thorium 230		9.8	pCi/L	97		70	130			
Sample ID: MB-31331	3	Method Blank								Run: ALPHANALYST_111019A 10/22/11 15:10
Thorium 230		0.4	pCi/L							U
Thorium 230 precision (±)		0.3	pCi/L							
Thorium 230 MDC		0.4	pCi/L							
Method: E908.0										Batch: RA-TH-ISO-1504
Sample ID: LCS-RA-TH-ISO-1504		Laboratory Control Sample								Run: ALPHANALYST_111031A 11/04/11 08:39
Thorium 230		6.5	pCi/L	114		70	130			
Sample ID: C11091177-001DMS		Sample Matrix Spike								Run: ALPHANALYST_111031A 11/04/11 08:40
Thorium 230		12	pCi/L	103		70	130			
Sample ID: C11091177-001DMSD		Sample Matrix Spike Duplicate								Run: ALPHANALYST_111031A 11/04/11 08:40
Thorium 230		10	pCi/L	89		70	130	13	38.7	
Sample ID: MB-RA-TH-ISO-1504	3	Method Blank								Run: ALPHANALYST_111031A 11/04/11 08:40
Thorium 230		0.03	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	pCi/L							

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0										
Batch: T_14957										
Sample ID: T11090088-001HMSD		Sample Matrix Spike Duplicate				Run: SUB-T42549				10/09/11 11:26
Lead 210		160	pCi/L	92		70	130	0.1	14.5	
Sample ID: MB-14957	3	Method Blank				Run: SUB-T42549				10/08/11 21:57
Lead 210		-4	pCi/L							U
Lead 210 precision (±)		4	pCi/L							
Lead 210 MDC		6	pCi/L							
Sample ID: LCS-14957		Laboratory Control Sample				Run: SUB-T42549				10/09/11 00:12
Lead 210		310	pCi/L	89		70	130			
Sample ID: T11090088-001HMS		Sample Matrix Spike				Run: SUB-T42549				10/09/11 09:11
Lead 210		160	pCi/L	92		70	130			
Method: E909.0										
Batch: T_PB-210-0162										
Sample ID: T11090087-002BDUP	3	Sample Duplicate				Run: SUB-T42612				10/18/11 18:40
Lead 210		-0.29	pCi/L					18	291	U
Lead 210 precision (±)		0.47	pCi/L							
Lead 210 MDC		0.79	pCi/L							
Sample ID: MB-PB-210-0162	3	Method Blank				Run: SUB-T42612				10/17/11 19:20
Lead 210		0.2	pCi/L							U
Lead 210 precision (±)		0.4	pCi/L							
Lead 210 MDC		0.7	pCi/L							
Sample ID: LCS-PB-210-0162		Laboratory Control Sample				Run: SUB-T42612				10/17/11 22:40
Lead 210		46	pCi/L	87		70	130			
Sample ID: T11100011-008AMS		Sample Matrix Spike				Run: SUB-T42612				10/18/11 05:20
Lead 210		9.37	pCi/g-dry	93		70	130			
Sample ID: T11100011-008AMSD		Sample Matrix Spike Duplicate				Run: SUB-T42612				10/18/11 08:40
Lead 210		9.25	pCi/g-dry	93		70	130	1.2	13.2	

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/10/11

Project: Marsland Baseline Private Well Samples

Work Order: C11090996

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: R152616										
Sample ID: C11090839-001FMS		Sample Matrix Spike								
Polonium 210		13	pCi/L	102		70	130			10/27/11 09:27
Sample ID: C11090839-001FMSD		Sample Matrix Spike Duplicate								
Polonium 210		11	pCi/L	85		70	130	18	64.7	10/27/11 09:27
Sample ID: MB-PO210-0399	3	Method Blank								
Polonium 210		0.7	pCi/L							10/28/11 09:11
Polonium 210 precision (±)		0.7	pCi/L							U
Polonium 210 MDC		0.7	pCi/L							
Sample ID: LCS-PO210-0399		Laboratory Control Sample								
Polonium 210		5.5	pCi/L	77		70	130			10/28/11 09:11
Method: E912.0										
Batch: R152619										
Sample ID: C11091005-002DMS		Sample Matrix Spike								
Polonium 210		5.5	pCi/L	99		70	130			10/28/11 16:56
Sample ID: C11091005-002DMSD		Sample Matrix Spike Duplicate								
Polonium 210		4.5	pCi/L	78		70	130	22	63.3	10/28/11 16:56
Sample ID: LCS-31331		Laboratory Control Sample								
Polonium 210		27	pCi/L	90		70	130			10/28/11 16:56
Sample ID: MB-31331	3	Method Blank								
Polonium 210		ND	pCi/L							10/28/11 16:56
Polonium 210 precision (±)		0.7	pCi/L							U
Polonium 210 MDC		2	pCi/L							

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Workorder Receipt Checklist



C11090996

Login completed by: Debra Williams

Date Received: 9/27/2011

Reviewed by: BL2000\cwagner

Received by: kg

Reviewed Date: 9/28/2011

Carrier NDA
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 10.2°C Melted ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Sample split and preserved as necessary for dissolved and suspended Radiochemistry



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.		Project Name: Marsland Baseline Private Well Samples		Sample Origin State:		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Report Mail Address: P.O. Box 169 Crawford, NE 69339		Contact Name: Larry Teahon		Phone/Fax: 308-665-2341		Sampler: (Please Print) Brooke Bass Rhonda Pelton	
Invoice Address: P.O. Box 169 Crawford, NE 69339		Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114		Purchase Order: 1125		Quote/Bottle Order:	
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POTW/MWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:		<input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC		ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		MATRIX				Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L.	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		LABORATORY USE ONLY	
1 Well #741		9/22/11				Please Report 10/30/11	
2 Well #759		9/22/11				Please Report 10/30/11	
3 Well #703		9/22/11				Please Report 10/30/11	
4 Well #723		9/22/11				Please Report 10/30/11	
5 Well #745		9/22/11				Please Report 10/30/11	
6 Well #727		9/22/11				Please Report 10/30/11	
7							
8							
9							
10							
Relinquished by (print): Brooke Bass		Date / Time: 9-22-11		Received by (print): Brooke Bass		Date / Time: 9-27-11 9:25	
Relinquished by (print):		Date / Time:		Received by (print):		Date / Time:	
Signature:		Signature:		Received by Laboratory:		Signature:	
Sample Disposal:		Return to Client: No		Lab Disposal: YES		Signature: K.C. 6:58	

Custody Record MUST be Signed

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.enrmlab.com for additional information. downloadable fee schedule, forms and links

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 9.23.11

ANALYST: MO

STANDARD CURVE DATA

	BL	0.01	.05	.10			
Abs	.000	.035	.143	.327			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ mg/L
1 703	10ml	1	.004	<.01
2 723	10ml	1	-.001	<.01
3 727	10ml	1	.005	<.01
4 727 Dup	10ml	1	.006	<.01
5 741	10ml	1	.003	<.01
745	10ml	1	.001	<.01
6 759	10ml	1	.000	<.01
7 759 Dup	10ml	1	.002	<.01
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				



ANALYTICAL SUMMARY REPORT

November 11, 2011

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11091177 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Private Well Samples

Energy Laboratories, Inc. Casper WY received the following 1 sample for Crow Butte Resources on 9/30/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11091177-001	Well #725	09/29/11 00:00	09/30/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. All samples are reported on an as received basis unless otherwise indicated.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Sample Delivery Group: C11091177

Report Date: 11/11/11

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11091177-001
Client Sample ID: Well #725

Report Date: 11/11/11
Collection Date: 09/29/11
Date Received: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	156	mg/L		1		A2320 B	10/01/11 04:39 / jba
Carbonate as CO ₃	4	mg/L		1		A2320 B	10/01/11 04:39 / jba
Bicarbonate as HCO ₃	182	mg/L		1		A2320 B	10/01/11 04:39 / jba
Calcium	30	mg/L		1		E200.8	11/04/11 03:03 / sml
Chloride	3	mg/L		1		E300.0	10/09/11 06:26 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	10/03/11 10:53 / jba
Magnesium	7	mg/L		1		E200.8	11/04/11 03:03 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	10/14/11 17:07 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	10/21/11 23:25 / ljl
Potassium	4	mg/L		1		E200.8	11/04/11 03:03 / sml
Silica	72.0	mg/L		0.2		E200.7	10/26/11 17:59 / cp
Sodium	25	mg/L		1		E200.8	11/04/11 03:03 / sml
Sulfate	13	mg/L		1		E300.0	10/09/11 06:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	309	umhos/cm		1		A2510 B	10/03/11 09:21 / lmc
pH	8.00	s.u.		0.01		A4500-H B	10/03/11 09:21 / lmc
Solids, Total Dissolved TDS @ 180 C	248	mg/L		10		A2540 C	10/03/11 16:35 / lmc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Arsenic	0.005	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Barium	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Boron	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Cadmium	ND	mg/L		0.005		E200.7	10/26/11 17:59 / cp
Chromium	ND	mg/L		0.05		E200.7	10/26/11 17:59 / cp
Copper	ND	mg/L		0.01		E200.8	11/04/11 03:03 / sml
Iron	0.04	mg/L		0.03		E200.7	10/26/11 17:59 / cp
Lead	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Manganese	ND	mg/L		0.01		E200.8	11/04/11 03:03 / sml
Mercury	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Molybdenum	ND	mg/L		0.1		E200.7	10/26/11 17:59 / cp
Nickel	ND	mg/L		0.05		E200.8	11/04/11 03:03 / sml
Selenium	ND	mg/L		0.001		E200.8	11/04/11 03:03 / sml
Uranium	0.0061	mg/L		0.0003		E200.8	11/04/11 03:03 / sml
Uranium, Activity	4.1E-09	uCi/mL		2.0E-10		E200.8	11/04/11 03:03 / sml
Vanadium	ND	mg/L		0.1		E200.8	11/04/11 03:03 / sml
Zinc	0.18	mg/L		0.01		E200.7	10/26/11 17:59 / cp
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	10/08/11 01:41 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	10/08/11 01:41 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11091177-001
Client Sample ID: Well #725

Report Date: 11/11/11
Collection Date: 09/29/11
Date Received: 09/30/11
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	10/20/11 00:40 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/20/11 00:40 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	10/20/11 00:40 / eli-cs
Polonium 210	1	pCi/L		0.5		E912.0	10/14/11 11:17 / ep
Polonium 210 precision (±)	0.6	pCi/L				E912.0	10/14/11 11:17 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	10/14/11 11:17 / ep
Radium 226	0.3	pCi/L		0.1		E903.0	10/17/11 17:31 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	10/17/11 17:31 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/17/11 17:31 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	11/04/11 08:40 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E908.0	11/04/11 08:40 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	11/04/11 08:40 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.6	pCi/L	U	0.6		E909.0	10/29/11 01:07 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	10/29/11 01:07 / eli-cs
Lead 210 MDC	0.6	pCi/L				E909.0	10/29/11 01:07 / eli-cs
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	10/28/11 16:56 / ep
Polonium 210 precision (±)	0.09	pCi/L				E912.0	10/28/11 16:56 / ep
Polonium 210 MDC	0.2	pCi/L				E912.0	10/28/11 16:56 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	10/18/11 00:00 / js
Radium 226 precision (±)	0.03	pCi/L				E903.0	10/18/11 00:00 / js
Radium 226 MDC	0.1	pCi/L				E903.0	10/18/11 00:00 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	11/04/11 13:16 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	11/04/11 13:16 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	11/04/11 13:16 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.17	%				Calculation	11/09/11 09:00 / kbh
Anions	3.56	meq/L				Calculation	11/09/11 09:00 / kbh
Cations	3.21	meq/L				Calculation	11/09/11 09:00 / kbh
Solids, Total Dissolved Calculated	270	mg/L				Calculation	11/09/11 09:00 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	11/09/11 09:00 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R151375
Sample ID: MBLK	3	Method Blank								Run: MANTECH_110930B 09/30/11 14:09
Alkalinity, Total as CaCO3		3	mg/L		2					
Carbonate as CO3		ND	mg/L		1					
Bicarbonate as HCO3		3	mg/L		1					
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_110930B 09/30/11 14:25
Alkalinity, Total as CaCO3		196	mg/L	5.0	97	90	110			
Sample ID: C11091168-019AMS		Sample Matrix Spike								Run: MANTECH_110930B 10/01/11 01:48
Alkalinity, Total as CaCO3		729	mg/L	5.0	110	80	120			
Sample ID: C11091168-026ADUP		Sample Duplicate								Run: MANTECH_110930B 10/01/11 02:58
Alkalinity, Total as CaCO3		249	mg/L	5.0				2.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Analytical Run: ORION555A_111003A			
Sample ID: ICV2_111003_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1400	umhos/cm	1.0	99	90	110			10/03/11 07:51
Method: A2510 B							Batch: 111003_1_PH-W_555A-1			
Sample ID: MBLK1_111003_1	Method Blank									
Conductivity @ 25 C		0.7	umhos/cm	0.2						Run: ORION555A_111003A 10/03/11 07:48
Sample ID: C11091181-004ADUP	Sample Duplicate									
Conductivity @ 25 C		4490	umhos/cm	1.0				0.0	10	Run: ORION555A_111003A 10/03/11 09:35

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 111003_2_SLDS-TDS-W		
Sample ID: MBLK1_111003		Method Blank					Run: BAL-1_111003C			10/03/11 16:20
Solids, Total Dissolved TDS @ 180 C		8	mg/L	4						
Sample ID: LCS1_111003		Laboratory Control Sample					Run: BAL-1_111003C			10/03/11 16:20
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	101	90	110			
Sample ID: C11091168-032AMS		Sample Matrix Spike					Run: BAL-1_111003C			10/03/11 16:33
Solids, Total Dissolved TDS @ 180 C		2520	mg/L	10	95	90	110			
Sample ID: C11091177-001ADUP		Sample Duplicate					Run: BAL-1_111003C			10/03/11 16:35
Solids, Total Dissolved TDS @ 180 C		244	mg/L	10				1.6	5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R151458
Sample ID: MBLK		Method Blank								Run: MANTECH_111003A 10/03/11 10:29
Fluoride		0.01	mg/L	0.008						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_111003A 10/03/11 10:36
Fluoride		1.82	mg/L	0.10	91	90	110			
Sample ID: C11091177-001BMS		Sample Matrix Spike								Run: MANTECH_111003A 10/03/11 10:55
Fluoride		2.38	mg/L	0.10	85	80	120			
Sample ID: C11091177-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_111003A 10/03/11 10:59
Fluoride		2.43	mg/L	0.10	88	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B							Analytical Run: ORION555A_111003A			
Sample ID: ICV1_111003_1	Initial Calibration Verification Standard									
pH		6.89	s.u.	0.010	100	98	102			10/03/11 07:50
Method: A4500-H B							Batch: 111003_1_PH-W_555A-1			
Sample ID: C11091181-004ADUP	Sample Duplicate									
pH		8.69	s.u.	0.010				0.0	3	Run: ORION555A_111003A 10/03/11 09:35

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R151991
Sample ID: MBLK-1 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_111014B 10/14/11 15:51
Sample ID: LCS-2 Nitrogen, Ammonia as N		Laboratory Control Sample 2.00	mg/L	0.050	100	90	110			Run: TECHNICON_111014B 10/14/11 15:53
Sample ID: LFB-3 Nitrogen, Ammonia as N		Laboratory Fortified Blank 1.96	mg/L	0.050	100	80	120			Run: TECHNICON_111014B 10/14/11 15:55
Sample ID: C11091139-001EMS Nitrogen, Ammonia as N		Sample Matrix Spike 2.01	mg/L	0.050	98	90	110			Run: TECHNICON_111014B 10/14/11 16:57
Sample ID: C11091139-001EMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 1.99	mg/L	0.050	97	90	110	1.0	10	Run: TECHNICON_111014B 10/14/11 16:59

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7										Analytical Run: ICP2-C_111026A	
Sample ID: ICV	9	Initial Calibration Verification Standard							10/26/11 14:37		
Aluminum		2.42	mg/L	0.10	97	95	105				
Barium		2.50	mg/L	0.10	100	95	105				
Boron		2.40	mg/L	0.10	96	95	105				
Cadmium		2.49	mg/L	0.010	100	95	105				
Chromium		2.49	mg/L	0.050	100	95	105				
Iron		2.54	mg/L	0.030	101	95	105				
Molybdenum		2.48	mg/L	0.10	99	95	105				
Silicon		5.09	mg/L	0.10	102	95	105				
Zinc		2.49	mg/L	0.010	99	95	105				
Sample ID: ICSA	9	Interference Check Sample A							10/26/11 15:03		
Aluminum		506	mg/L	0.10	101	80	120				
Barium		0.00200	mg/L	0.10		0	0				
Boron		0.00500	mg/L	0.10		0	0				
Cadmium		0.0164	mg/L	0.010		0	0				
Chromium		0.00570	mg/L	0.050		0	0				
Iron		194	mg/L	0.030	97	80	120				
Molybdenum		-0.0152	mg/L	0.10		0	0				
Silicon		-0.0863	mg/L	0.10		0	0				
Zinc		0.0138	mg/L	0.010		0	0				
Sample ID: ICSAB	9	Interference Check Sample AB							10/26/11 15:07		
Aluminum		520	mg/L	0.10	104	80	120				
Barium		0.538	mg/L	0.10	108	80	120				
Boron		0.358	mg/L	0.10		0	0				
Cadmium		1.03	mg/L	0.010	103	80	120				
Chromium		0.508	mg/L	0.050	102	80	120				
Iron		196	mg/L	0.030	98	80	120				
Molybdenum		-0.0174	mg/L	0.10		0	0				
Silicon		-0.0835	mg/L	0.10		0	0				
Zinc		1.07	mg/L	0.010	107	80	120				
Method: E200.7										Batch: R152562	
Sample ID: MB-111026A	9	Method Blank				Run: ICP2-C_111026A			10/26/11 15:40		
Aluminum		0.01	mg/L	0.01							
Barium		ND	mg/L	0.0006							
Boron		ND	mg/L	0.01							
Cadmium		ND	mg/L	0.0005							
Chromium		ND	mg/L	0.002							
Iron		0.002	mg/L	0.001							
Molybdenum		ND	mg/L	0.001							
Silicon		ND	mg/L	0.007							
Zinc		ND	mg/L	0.001							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										
Batch: R152562										
Sample ID: LFB-111026A	9	Laboratory Fortified Blank					Run: ICP2-C_111026A			10/26/11 15:44
Aluminum		0.912	mg/L	0.10	90	85	115			
Barium		0.943	mg/L	0.10	94	85	115			
Boron		0.899	mg/L	0.10	90	85	115			
Cadmium		0.946	mg/L	0.010	95	85	115			
Chromium		0.928	mg/L	0.050	93	85	115			
Iron		0.949	mg/L	0.030	95	85	115			
Molybdenum		0.938	mg/L	0.10	94	85	115			
Silicon		0.431	mg/L	0.10	96	85	115			
Zinc		0.946	mg/L	0.010	95	85	115			
Sample ID: C11100595-001BMS2	9	Sample Matrix Spike					Run: ICP2-C_111026A			10/26/11 18:15
Aluminum		1.80	mg/L	0.10	78	70	130			
Barium		1.80	mg/L	0.10	88	70	130			
Boron		1.76	mg/L	0.10	86	70	130			
Cadmium		1.81	mg/L	0.010	89	70	130			
Chromium		1.80	mg/L	0.050	88	70	130			
Iron		1.86	mg/L	0.030	91	70	130			
Molybdenum		1.79	mg/L	0.10	88	70	130			
Silicon		0.679	mg/L	0.10	83	70	130			
Zinc		1.84	mg/L	0.010	88	70	130			
Sample ID: C11100595-001BMSD	9	Sample Matrix Spike Duplicate					Run: ICP2-C_111026A			10/26/11 18:19
Aluminum		1.87	mg/L	0.10	82	70	130	3.8	20	
Barium		1.88	mg/L	0.10	92	70	130	4.6	20	
Boron		1.84	mg/L	0.10	90	70	130	4.7	20	
Cadmium		1.87	mg/L	0.010	92	70	130	3.4	20	
Chromium		1.87	mg/L	0.050	92	70	130	4.1	20	
Iron		1.94	mg/L	0.030	95	70	130	4.0	20	
Molybdenum		1.88	mg/L	0.10	92	70	130	4.8	20	
Silicon		0.694	mg/L	0.10	85	70	130	2.1	20	
Zinc		1.90	mg/L	0.010	92	70	130	3.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS4-C_111007A		
Sample ID: ICV		Initial Calibration Verification Standard						10/07/11 13:50		
Uranium		0.0496	mg/L	0.00030	99	90	110			
Method: E200.8								Batch: 31450A		
Sample ID: MB-31450		Method Blank				Run: ICPMS4-C_111007A		10/08/11 01:07		
Uranium		0.0005	pCi/Filter							
Sample ID: LCS2-31450		Laboratory Control Sample				Run: ICPMS4-C_111007A		10/08/11 01:10		
Uranium		0.123	pCi/Filter	0.00030	123	85	115			S
- Response is above standard QA limit. This could indicate a high bias for the sample results. Since there were no detectable analyte responses, and the remainder of the run QA is within acceptance range, this batch is approved. Due to the samples being filters, a re-preparation/reanalysis is not possible.										
Sample ID: C11100147-003AMS		Sample Matrix Spike				Run: ICPMS4-C_111007A		10/08/11 02:28		
Uranium		0.0628	pCi/Filter	0.00030	116	70	130			
Sample ID: C11100147-003AMSD		Sample Matrix Spike Duplicate				Run: ICPMS4-C_111007A		10/08/11 02:31		
Uranium		0.0618	pCi/Filter	0.00030	114	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8								Analytical Run: ICPMS4-C_111103A			
Sample ID: ICV	13	Initial Calibration Verification Standard									11/03/11 21:26
Arsenic		0.0490	mg/L	0.0010	98	90	110				
Calcium		9.94	mg/L	0.0066	99	90	110				
Copper		0.0503	mg/L	0.0010	101	90	110				
Lead		0.0488	mg/L	0.0010	98	90	110				
Magnesium		9.85	mg/L	0.0027	98	90	110				
Manganese		0.0500	mg/L	0.0010	100	90	110				
Mercury		0.00506	mg/L	0.0010	101	90	110				
Nickel		0.0499	mg/L	0.0010	100	90	110				
Potassium		9.90	mg/L	0.0041	99	90	110				
Selenium		0.0499	mg/L	0.0010	100	90	110				
Sodium		9.64	mg/L	0.0043	96	90	110				
Uranium		0.0504	mg/L	0.00030	101	90	110				
Vanadium		0.0467	mg/L	0.0010	93	90	110				
Method: E200.8								Batch: R152827A			
Sample ID: LRB	13	Method Blank									11/03/11 12:54
Arsenic		ND	mg/L	5E-05							
Calcium		ND	mg/L	0.007							
Copper		ND	mg/L	3E-05							
Lead		ND	mg/L	2E-05							
Magnesium		ND	mg/L	0.003							
Manganese		ND	mg/L	3E-05							
Mercury		ND	mg/L	5E-05							
Nickel		ND	mg/L	9E-05							
Potassium		ND	mg/L	0.004							
Selenium		ND	mg/L	7E-05							
Sodium		ND	mg/L	0.004							
Uranium		ND	mg/L	9E-06							
Vanadium		ND	mg/L	4E-05							
Sample ID: LFB	13	Laboratory Fortified Blank									11/03/11 13:00
Arsenic		0.0523	mg/L	0.0010	105	85	115				
Calcium		12.9	mg/L	0.0066	103	85	115				
Copper		0.0530	mg/L	0.0010	106	85	115				
Lead		0.0514	mg/L	0.0010	103	85	115				
Magnesium		12.6	mg/L	0.0027	101	85	115				
Manganese		0.0531	mg/L	0.0010	106	85	115				
Mercury		0.00541	mg/L	0.0010	108	85	115				
Nickel		0.0530	mg/L	0.0010	106	85	115				
Potassium		12.8	mg/L	0.0041	102	85	115				
Selenium		0.0511	mg/L	0.0010	102	85	115				
Sodium		12.6	mg/L	0.0043	101	85	115				
Uranium		0.0523	mg/L	0.00030	105	85	115				
Vanadium		0.0522	mg/L	0.0010	104	85	115				

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R152827A		
Sample ID: C11100040-023BMS4 13 Sample Matrix Spike				Run: ICPMS4-C_111103A				11/04/11 05:28		
Arsenic		0.0545	mg/L	0.0010	106	70	130			
Calcium		523	mg/L	1.0		70	130			A
Copper		0.0511	mg/L	0.010	91	70	130			
Lead		0.0508	mg/L	0.050	95	70	130			
Magnesium		83.4	mg/L	1.0		70	130			A
Manganese		9.28	mg/L	0.010		70	130			A
Mercury		0.00504	mg/L	0.0010	101	70	130			
Nickel		0.101	mg/L	0.050	91	70	130			
Potassium		21.1	mg/L	1.0	99	70	130			
Selenium		0.0673	mg/L	0.0010	101	70	130			
Sodium		51.2	mg/L	1.0	93	70	130			
Uranium		2.49	mg/L	0.00030		70	130			A
Vanadium		0.0455	mg/L	0.0010	90	70	130			
Sample ID: C11100040-023BMSD 13 Sample Matrix Spike Duplicate				Run: ICPMS4-C_111103A				11/04/11 05:33		
Arsenic		0.0605	mg/L	0.0010	118	70	130	11	20	
Calcium		540	mg/L	1.0		70	130	3.1	20	A
Copper		0.0567	mg/L	0.010	102	70	130	10	20	
Lead		0.0503	mg/L	0.050	94	70	130	0.8	20	
Magnesium		84.3	mg/L	1.0		70	130	1.0	20	A
Manganese		7.88	mg/L	0.010		70	130	16	20	A
Mercury		0.00562	mg/L	0.0010	112	70	130	11	20	
Nickel		0.108	mg/L	0.050	105	70	130	6.8	20	
Potassium		22.9	mg/L	1.0	113	70	130	8.2	20	
Selenium		0.0677	mg/L	0.0010	102	70	130	0.6	20	
Sodium		52.4	mg/L	1.0	102	70	130	2.1	20	
Uranium		2.11	mg/L	0.00030		70	130	17	20	A
Vanadium		0.0511	mg/L	0.0010	102	70	130	12	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_111007A		
Sample ID: ICV100711-10	2	Initial Calibration Verification Standard								10/07/11 18:38
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.8	mg/L	1.0	102	90	110			
Sample ID: ICB2100711-12	2	Initial Calibration Blank, Instrument Blank								10/07/11 19:05
Chloride		-0.0170	mg/L	1.0		0	0			
Sulfate		0.268	mg/L	1.0		0	0			
Method: E300.0								Batch: R151722		
Sample ID: ICB100711-11	2	Method Blank								10/07/11 18:52
Chloride		ND	mg/L	0.10						
Sulfate		0.3	mg/L	0.08						
Sample ID: LFB100711-13	2	Laboratory Fortified Blank								10/07/11 19:18
Chloride		9.99	mg/L	1.0	100	90	110			
Sulfate		40.7	mg/L	1.0	101	90	110			
Sample ID: LFB100711-14	2	Laboratory Fortified Blank Duplicate								10/07/11 19:32
Chloride		10.0	mg/L	1.0	100	90	110	0.3	10	
Sulfate		40.8	mg/L	1.0	101	90	110	0.3	10	
Sample ID: C11091170-001AMS	2	Sample Matrix Spike								10/09/11 05:05
Chloride		56.2	mg/L	1.0	99	90	110			
Sulfate		626	mg/L	4.0	89	90	110			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Sample ID: C11091170-001AMSD	2	Sample Matrix Spike Duplicate								10/09/11 05:18
Chloride		56.2	mg/L	1.0	99	90	110	0.1	10	
Sulfate		624	mg/L	4.0	88	90	110	0.4	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R152322
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_111021C 10/21/11 21:03
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.47	mg/L	0.10	99	90	110			Run: TECHNICON_111021C 10/21/11 21:05
Sample ID: LFB-3 Nitrogen, Nitrate+Nitrite as N		Laboratory Fortified Blank 2.01	mg/L	0.10	103	90	110			Run: TECHNICON_111021C 10/21/11 21:08
Sample ID: C11091093-011DMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.01	mg/L	0.10	103	90	110			Run: TECHNICON_111021C 10/21/11 23:00
Sample ID: C11091093-011DMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.07	mg/L	0.10	106	90	110	2.9	10	Run: TECHNICON_111021C 10/21/11 23:03

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										Batch: RA226-5655
Sample ID: C11091177-001DMS		Sample Matrix Spike								Run: BERTHOLD 770-2_111007A 10/17/11 17:31
Radium 226		11	pCi/L	85		70	130			
Sample ID: C11091177-001DMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-2_111007A 10/17/11 17:31
Radium 226		12	pCi/L	95		70	130	11	25.7	
Sample ID: MB-RA226-5655	3	Method Blank								Run: BERTHOLD 770-2_111007A 10/17/11 22:00
Radium 226		0.04	pCi/L							U
Radium 226 precision (±)		0.08	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5655		Laboratory Control Sample								Run: BERTHOLD 770-2_111007A 10/17/11 22:00
Radium 226		5.2	pCi/L	82		80	120			
Method: E903.0										Batch: 31450
Sample ID: C11100135-002AMS		Sample Matrix Spike								Run: BERTHOLD 770-2_111010A 10/18/11 00:00
Radium 226		38.0	pCi/Filter	97		70	130			
Sample ID: C11100135-002AMSD		Sample Matrix Spike Duplicate								Run: BERTHOLD 770-2_111010A 10/18/11 00:00
Radium 226		42.0	pCi/Filter	106		70	130	10	26.5	
Sample ID: LCS-31450		Laboratory Control Sample								Run: BERTHOLD 770-2_111010A 10/18/11 01:38
Radium 226		11.7	pCi/Filter	100		70	130			
Sample ID: MB-31450	3	Method Blank								Run: BERTHOLD 770-2_111010A 10/18/11 01:38
Radium 226		-0.1	pCi/Filter							U
Radium 226 precision (±)		0.1	pCi/Filter							
Radium 226 MDC		0.3	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1504		
Sample ID: LCS-RA-TH-ISO-1504	Laboratory Control Sample					Run: ALPHANALYST_111031A		11/04/11 08:39		
Thorium 230		6.5	pCi/L	114		70	130			
Sample ID: C11091177-001DMS	Sample Matrix Spike					Run: ALPHANALYST_111031A		11/04/11 08:40		
Thorium 230		12	pCi/L	103		70	130			
Sample ID: C11091177-001DMSD	Sample Matrix Spike Duplicate					Run: ALPHANALYST_111031A		11/04/11 08:40		
Thorium 230		10	pCi/L	89		70	130	13	38.7	
Sample ID: MB-RA-TH-ISO-1504	3	Method Blank				Run: ALPHANALYST_111031A		11/04/11 08:40		
Thorium 230		0.03	pCi/L							
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E908.0								Batch: R153032		
Sample ID: LCS-31450	Laboratory Control Sample					Run: ALPHANALYST_111101A		11/04/11 13:16		
Thorium 230		10.3	pCi/Filter	104		70	130			
Sample ID: MB-31450	3	Method Blank				Run: ALPHANALYST_111101A		11/04/11 13:16		
Thorium 230		0.2	pCi/Filter							
Thorium 230 precision (±)		0.1	pCi/Filter							
Thorium 230 MDC		0.1	pCi/Filter							
Sample ID: C11100045-001AMS	Sample Matrix Spike					Run: ALPHANALYST_111101A		11/04/11 13:16		
Thorium 230		46.8	pCi/Filter	94		70	130			
Sample ID: C11100045-001AMSD	Sample Matrix Spike Duplicate					Run: ALPHANALYST_111101A		11/04/11 13:16		
Thorium 230		49.9	pCi/Filter	101		70	130	6.5	31.9	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0162		
Sample ID: T11090087-002BDUP	3	Sample Duplicate				Run: SUB-T42612				10/18/11 18:40
Lead 210		-0.29	pCi/L					18	291	U
Lead 210 precision (±)		0.47	pCi/L							
Lead 210 MDC		0.79	pCi/L							
Sample ID: MB-PB-210-0162	3	Method Blank				Run: SUB-T42612				10/17/11 19:20
Lead 210		0.2	pCi/L							U
Lead 210 precision (±)		0.4	pCi/L							
Lead 210 MDC		0.7	pCi/L							
Sample ID: LCS-PB-210-0162		Laboratory Control Sample				Run: SUB-T42612				10/17/11 22:40
Lead 210		46	pCi/L	87		70	130			
Sample ID: T11100011-008AMS		Sample Matrix Spike				Run: SUB-T42612				10/18/11 05:20
Lead 210		9.37	pCi/g-dry	93		70	130			
Sample ID: T11100011-008AMSD		Sample Matrix Spike Duplicate				Run: SUB-T42612				10/18/11 08:40
Lead 210		9.25	pCi/g-dry	93		70	130	1.2	13.2	
Method: E909.0								Batch: T_15019		
Sample ID: T11100041-003AMSD		Sample Matrix Spike Duplicate				Run: SUB-T42695				10/29/11 12:21
Lead 210		1190	pCi/Filter	89		70	130	7.1	13.4	
Sample ID: T11100041-003AMS		Sample Matrix Spike				Run: SUB-T42695				10/29/11 10:06
Lead 210		1270	pCi/Filter	96		70	130			
Sample ID: LCS-15019		Laboratory Control Sample				Run: SUB-T42695				10/28/11 22:53
Lead 210		516	pCi/Filter	92		70	130			
Sample ID: MB-15019	3	Method Blank				Run: SUB-T42695				10/28/11 20:38
Lead 210		0.09	pCi/Filter							U
Lead 210 precision (±)		4	pCi/Filter							
Lead 210 MDC		7	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 11/11/11

Project: Marsland Baseline Private Well Samples

Work Order: C11091177

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0								Batch: PO210-0401		
Sample ID: C11090862-008DMS		Sample Matrix Spike								
Polonium 210		9.9	pCi/L	79		70	130			10/14/11 13:27
Sample ID: C11090862-008DMSD		Sample Matrix Spike Duplicate								
Polonium 210		13	pCi/L	103		70	130	27	72.7	10/14/11 13:27
Sample ID: MB-PO210-0401	3	Method Blank								
Polonium 210		0.03	pCi/L							10/17/11 10:59
Polonium 210 precision (±)		0.2	pCi/L							U
Polonium 210 MDC		0.4	pCi/L							
Sample ID: LCS-PO210-0401		Laboratory Control Sample								
Polonium 210		6.4	pCi/L	101		70	130			10/17/11 10:59
Method: E912.0								Batch: R152619		
Sample ID: C11091005-002DMS		Sample Matrix Spike								
Polonium 210		5.5	pCi/L	99		70	130			10/28/11 16:56
Sample ID: C11091005-002DMSD		Sample Matrix Spike Duplicate								
Polonium 210		4.5	pCi/L	78		70	130	22	63.3	10/28/11 16:56
Sample ID: LCS-31331		Laboratory Control Sample								
Polonium 210		27	pCi/L	90		70	130			10/28/11 16:56
Sample ID: MB-31331	3	Method Blank								
Polonium 210		ND	pCi/L							U
Polonium 210 precision (±)		0.7	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11091177

Login completed by: Edith McPike
Reviewed by: BL2000\cwagner
Reviewed Date: 10/5/2011

Date Received: 9/30/2011
Received by: kg
Carrier NDA name:

- | | | | |
|--|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 10.8°C Melted Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples filtered and preserved as necessary per requested analysis.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

No 2

DATE: 9-29-11

ANALYST: LT

STANDARD CURVE DATA

	BL		0.01	.05	.10		
Abs	0		.033	.164	.320		
Abs							

SAMPLE #	VOLUME	Df	Abs	No2 mg/L
1	725	1	.002	20.01
2	725 Dup	1	.001	20.01
3				
4				
5				
Dup				
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

February 28, 2012

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11120623 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Private Well Samples

Energy Laboratories, Inc. Casper WY received the following 6 samples for Crow Butte Resources on 12/20/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11120623-001	Well #727	12/15/11 0:00	12/20/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C11120623-002	Well #759	12/15/11 0:00	12/20/11	Aqueous	Same As Above
C11120623-003	Well #703	12/15/11 0:00	12/20/11	Aqueous	Same As Above
C11120623-004	Well #741	12/15/11 0:00	12/20/11	Aqueous	Same As Above
C11120623-005	Well #745	12/15/11 0:00	12/20/11	Aqueous	Same As Above
C11120623-006	Well #725	12/16/11 0:00	12/20/11	Aqueous	Same As Above

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Sample Delivery Group: C11120623

Report Date: 02/28/12

CASE NARRATIVE

pH COMMENTS

Per NELAC rule, pH is considered a field parameter with a holding time of 15 minutes. Due to this rule, all pH analyses will be flagged with an H.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-001
Client Sample ID: Well #727

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	146	mg/L		1		A2320 B	12/20/11 18:46 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 18:46 / jba
Bicarbonate as HCO3	178	mg/L		1		A2320 B	12/20/11 18:46 / jba
Calcium	34	mg/L		1		E200.8	12/30/11 18:34 / sml
Chloride	5	mg/L		1		E300.0	12/28/11 04:02 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	12/22/11 11:45 / jba
Magnesium	13	mg/L		1		E200.8	12/30/11 18:34 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:14 / dc
Nitrogen, Nitrate+Nitrite as N	1.6	mg/L		0.1		E353.2	12/21/11 13:10 / dc
Potassium	4	mg/L		1		E200.8	12/30/11 18:34 / sml
Silica	83	mg/L	D	1		E200.7	01/12/12 18:06 / cp
Sodium	19	mg/L		1		E200.8	12/30/11 18:34 / sml
Sulfate	8	mg/L		1		E300.0	12/28/11 04:02 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	344	umhos/cm		1		A2510 B	12/20/11 16:57 / wc
pH	7.73	s.u.	H	0.01		A4500-H B	12/21/11 10:27 / wc
Solids, Total Dissolved TDS @ 180 C	229	mg/L		10		A2540 C	12/20/11 16:54 / wc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Arsenic	0.002	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Barium	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:34 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:34 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:34 / sml
Iron	0.03	mg/L		0.03		E200.8	12/30/11 18:34 / sml
Lead	ND	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:34 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/13/12 00:22 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:34 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/30/11 18:34 / sml
Uranium	0.0080	mg/L		0.0003		E200.8	12/30/11 18:34 / sml
Uranium, Activity	5.4E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:34 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:34 / sml
Zinc	0.49	mg/L		0.01		E200.8	12/30/11 18:34 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:10 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:10 / sml

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-001
Client Sample ID: Well #727

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 01:11 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 01:11 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 01:11 / eli-cs
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	1.8	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 10:00 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 10:00 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 10:00 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.3	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	5.25	%				Calculation	01/04/12 14:55 / kbh
Anions	3.37	meq/L				Calculation	01/04/12 14:55 / kbh
Cations	3.74	meq/L				Calculation	01/04/12 14:55 / kbh
Solids, Total Dissolved Calculated	179	mg/L				Calculation	01/04/12 14:55 / kbh
TDS Balance (0.80 - 1.20)	1.28					Calculation	01/04/12 14:55 / kbh

- The ion balance is not appropriate for samples having a conductivity less than 300 umhos/cm.

Report	RL - Analyte reporting limit.	MCL - Maximum contaminant level.
Definitions:	QCL - Quality control limit.	ND - Not detected at the reporting limit.
	MDC - Minimum detectable concentration	U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-002
Client Sample ID: Well #759

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	12/20/11 18:54 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 18:54 / jba
Bicarbonate as HCO3	170	mg/L		1		A2320 B	12/20/11 18:54 / jba
Calcium	32	mg/L		1		E200.8	12/21/11 22:53 / sml
Chloride	2	mg/L		1		E300.0	12/28/11 04:15 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/11 11:56 / jba
Magnesium	6	mg/L		1		E200.8	12/30/11 18:41 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:16 / dc
Nitrogen, Nitrate+Nitrite as N	0.8	mg/L		0.1		E353.2	12/21/11 13:13 / dc
Potassium	5	mg/L		1		E200.8	12/21/11 22:53 / sml
Silica	71.9	mg/L		0.2		E200.7	01/12/12 18:18 / cp
Sodium	25	mg/L		1		E200.8	12/30/11 18:41 / sml
Sulfate	7	mg/L		1		E300.0	12/28/11 04:15 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	307	umhos/cm		1		A2510 B	12/20/11 17:00 / wc
pH	7.76	s.u.	H	0.01		A4500-H B	12/21/11 10:30 / wc
Solids, Total Dissolved TDS @ 180 C	203	mg/L		10		A2540 C	12/20/11 16:54 / wc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Arsenic	0.003	mg/L		0.001		E200.8	12/21/11 22:53 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:41 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:41 / sml
Chromium	ND	mg/L		0.05		E200.8	12/21/11 22:53 / sml
Copper	ND	mg/L		0.01		E200.8	12/21/11 22:53 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:41 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 22:53 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:41 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:41 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:18 / cp
Nickel	ND	mg/L		0.05		E200.8	12/21/11 22:53 / sml
Selenium	ND	mg/L		0.001		E200.8	12/30/11 18:41 / sml
Uranium	0.0049	mg/L		0.0003		E200.8	12/30/11 18:41 / sml
Uranium, Activity	3.3E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:41 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/21/11 22:53 / sml
Zinc	0.10	mg/L		0.01		E200.8	12/21/11 22:53 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:12 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:12 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-002
Client Sample ID: Well #759

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 06:42 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 06:42 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 06:42 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	1.0	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.2	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.2	pCi/L	U	0.2		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.2	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 12:05 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 12:05 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 12:05 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.27	%				Calculation	01/04/12 08:42 / kbh
Anions	3.08	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.35	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	166	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.22					Calculation	01/04/12 08:42 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-003
Client Sample ID: Well #703

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	144	mg/L		1		A2320 B	12/20/11 19:02 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	12/20/11 19:02 / jba
Bicarbonate as HCO ₃	176	mg/L		1		A2320 B	12/20/11 19:02 / jba
Calcium	42	mg/L		1		E200.8	12/30/11 18:48 / sml
Chloride	3	mg/L		1		E300.0	12/28/11 09:35 / ljl
Fluoride	0.5	mg/L		0.1		A4500-F C	12/22/11 11:59 / jba
Magnesium	8	mg/L		1		E200.8	12/30/11 18:48 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/22/11 12:18 / dc
Nitrogen, Nitrate+Nitrite as N	1.7	mg/L		0.1		E353.2	12/21/11 13:15 / dc
Potassium	3	mg/L		1		E200.8	12/30/11 18:48 / sml
Silica	65.7	mg/L		0.2		E200.7	01/12/12 18:26 / cp
Sodium	16	mg/L		1		E200.8	12/30/11 18:48 / sml
Sulfate	7	mg/L		1		E300.0	12/28/11 09:35 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	325	umhos/cm		1		A2510 B	12/20/11 17:02 / wc
pH	7.79	s.u.	H	0.01		A4500-H B	12/21/11 10:34 / wc
Solids, Total Dissolved TDS @ 180 C	208	mg/L		10		A2540 C	12/20/11 16:54 / wc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Arsenic	0.004	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:48 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:48 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:48 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:48 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 23:20 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:48 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:26 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:48 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/30/11 18:48 / sml
Uranium	0.0040	mg/L		0.0003		E200.8	12/30/11 18:48 / sml
Uranium, Activity	2.7E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:48 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:48 / sml
Zinc	0.11	mg/L		0.01		E200.8	12/30/11 18:48 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:21 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:21 / sml

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-003
Client Sample ID: Well #703

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 12:13 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 12:13 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 12:13 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	0.5	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 14:10 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 14:10 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 14:10 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.88	%				Calculation	01/04/12 08:42 / kbh
Anions	3.25	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.51	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	173	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.20					Calculation	01/04/12 08:42 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-004
Client Sample ID: Well #741

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	173	mg/L		1		A2320 B	12/20/11 19:09 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	12/20/11 19:09 / jba
Bicarbonate as HCO ₃	211	mg/L		1		A2320 B	12/20/11 19:09 / jba
Calcium	49	mg/L		1		E200.8	12/30/11 18:55 / sml
Chloride	5	mg/L		1		E300.0	12/28/11 10:15 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/11 12:06 / jba
Magnesium	9	mg/L		1		E200.8	12/30/11 18:55 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/22/11 12:20 / dc
Nitrogen, Nitrate+Nitrite as N	3.1	mg/L		0.1		E353.2	12/21/11 13:18 / dc
Potassium	5	mg/L		1		E200.8	12/30/11 18:55 / sml
Silica	64.4	mg/L		0.2		E200.7	01/12/12 18:30 / cp
Sodium	26	mg/L		1		E200.8	12/30/11 18:55 / sml
Sulfate	12	mg/L		1		E300.0	12/28/11 10:15 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	327	umhos/cm		1		A2510 B	12/21/11 10:40 / wc
pH	7.86	s.u.	H	0.01		A4500-H B	12/21/11 10:40 / wc
Solids, Total Dissolved TDS @ 180 C	259	mg/L		10		A2540 C	12/20/11 16:54 / wc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Arsenic	0.006	mg/L		0.001		E200.8	12/30/11 18:55 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 18:55 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 18:55 / sml
Copper	ND	mg/L		0.01		E200.8	12/30/11 18:55 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 18:55 / sml
Lead	ND	mg/L		0.001		E200.8	12/21/11 23:27 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 18:55 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 18:55 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:30 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 18:55 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/21/11 23:27 / sml
Uranium	0.0057	mg/L		0.0003		E200.8	12/30/11 18:55 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	12/30/11 18:55 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 18:55 / sml
Zinc	0.02	mg/L		0.01		E200.8	12/30/11 18:55 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:23 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:23 / sml

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-004
Client Sample ID: Well #741

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 17:44 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 17:44 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 17:44 / eli-cs
Polonium 210	1.7	pCi/L		1.3		E912.0	02/02/12 08:46 / plj
Polonium 210 precision (±)	1.5	pCi/L				E912.0	02/02/12 08:46 / plj
Polonium 210 MDC	1.3	pCi/L				E912.0	02/02/12 08:46 / plj
Radium 226	0.5	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 16:15 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 16:15 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 16:15 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.69	%				Calculation	01/04/12 08:42 / kbh
Anions	4.10	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	4.42	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	224	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.16					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-005
Client Sample ID: Well #745

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	164	mg/L		1		A2320 B	12/20/11 19:17 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:17 / jba
Bicarbonate as HCO3	200	mg/L		1		A2320 B	12/20/11 19:17 / jba
Calcium	61	mg/L		1		E200.8	12/22/11 00:02 / sml
Chloride	4	mg/L		1		E300.0	12/28/11 10:28 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/22/11 12:13 / jba
Magnesium	11	mg/L		1		E200.8	12/22/11 00:02 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:22 / dc
Nitrogen, Nitrate+Nitrite as N	5.0	mg/L		0.1		E353.2	12/21/11 13:20 / dc
Potassium	2	mg/L		1		E200.8	12/22/11 00:02 / sml
Silica	67.2	mg/L		0.2		E200.7	01/12/12 18:34 / cp
Sodium	8	mg/L		1		E200.8	12/22/11 00:02 / sml
Sulfate	16	mg/L		1		E300.0	12/28/11 10:28 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	327	umhos/cm		1		A2510 B	12/21/11 10:45 / wc
pH	7.79	s.u.	H	0.01		A4500-H B	12/21/11 10:45 / wc
Solids, Total Dissolved TDS @ 180 C	292	mg/L		10		A2540 C	12/20/11 16:54 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Arsenic	0.003	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Barium	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 19:30 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 19:30 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/11 00:02 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/11 00:02 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 19:30 / sml
Lead	0.002	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/11 00:02 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 19:30 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:34 / cp
Nickel	ND	mg/L		0.05		E200.8	12/22/11 00:02 / sml
Selenium	0.002	mg/L		0.001		E200.8	12/22/11 00:02 / sml
Uranium	0.0165	mg/L		0.0003		E200.8	12/30/11 19:30 / sml
Uranium, Activity	1.1E-08	uCi/mL		2.0E-10		E200.8	12/30/11 19:30 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/11 00:02 / sml
Zinc	0.72	mg/L		0.01		E200.8	12/22/11 00:02 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:24 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:24 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-005
Client Sample ID: Well #745

Report Date: 02/28/12
Collection Date: 12/15/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/01/12 23:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/01/12 23:15 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/01/12 23:15 / eli-cs
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	0.4	pCi/L		0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/03/12 13:19 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E908.0	01/03/12 13:19 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/03/12 13:19 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/07/12 18:20 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 18:20 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/07/12 18:20 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.5	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	3.13	%				Calculation	01/04/12 08:42 / kbh
Anions	4.10	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	4.36	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	223	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.31					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-006
Client Sample ID: Well #725

Report Date: 02/28/12
Collection Date: 12/16/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	141	mg/L		1		A2320 B	12/20/11 19:25 / jba
Carbonate as CO3	ND	mg/L		1		A2320 B	12/20/11 19:25 / jba
Bicarbonate as HCO3	172	mg/L		1		A2320 B	12/20/11 19:25 / jba
Calcium	33	mg/L		1		E200.8	12/22/11 00:09 / sml
Chloride	2	mg/L		1		E300.0	12/28/11 10:42 / ljl
Fluoride	0.7	mg/L		0.1		A4500-F C	12/22/11 12:16 / jba
Magnesium	6	mg/L		1		E200.8	12/22/11 00:09 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/22/11 12:24 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	12/21/11 13:23 / dc
Potassium	4	mg/L		1		E200.8	12/22/11 00:09 / sml
Silica	68.4	mg/L		0.2		E200.7	01/12/12 18:38 / cp
Sodium	31	mg/L		1		E200.8	12/22/11 00:09 / sml
Sulfate	16	mg/L		1		E300.0	12/28/11 10:42 / ljl

PHYSICAL PROPERTIES

Conductivity @ 25 C	241	umhos/cm		1		A2510 B	12/21/11 10:48 / wc
pH	7.95	s.u.	H	0.01		A4500-H B	12/21/11 10:48 / wc
Solids, Total Dissolved TDS @ 180 C	234	mg/L		10		A2540 C	12/20/11 16:55 / wc

METALS - DISSOLVED

Aluminum	ND	mg/L		0.1		E200.8	12/30/11 19:37 / sml
Arsenic	0.004	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Barium	ND	mg/L		0.1		E200.8	12/22/11 00:09 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 19:37 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/11 00:09 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/11 00:09 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/11 00:09 / sml
Iron	0.06	mg/L		0.03		E200.8	12/30/11 19:37 / sml
Lead	ND	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Manganese	0.01	mg/L		0.01		E200.8	12/22/11 00:09 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 19:37 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/12/12 18:38 / cp
Nickel	ND	mg/L		0.05		E200.8	12/22/11 00:09 / sml
Selenium	ND	mg/L		0.001		E200.8	12/22/11 00:09 / sml
Uranium	0.0057	mg/L		0.0003		E200.8	12/30/11 19:37 / sml
Uranium, Activity	3.8E-09	uCi/mL		2.0E-10		E200.8	12/30/11 19:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/11 00:09 / sml
Zinc	0.24	mg/L		0.01		E200.8	12/22/11 00:09 / sml

METALS - SUSPENDED

Uranium	ND	mg/L		0.0003		E200.8	12/27/11 19:26 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/27/11 19:26 / sml

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120623-006
Client Sample ID: Well #725

Report Date: 02/28/12
Collection Date: 12/16/11
Date Received: 12/20/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0	01/02/12 04:46 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/02/12 04:46 / eli-cs
Lead 210 MDC	0.7	pCi/L				E909.0	01/02/12 04:46 / eli-cs
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	01/27/12 08:27 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	01/27/12 08:27 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	01/27/12 08:27 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/03/12 11:35 / js
Radium 226 precision (±)	0.09	pCi/L				E903.0	01/03/12 11:35 / js
Radium 226 MDC	0.1	pCi/L				E903.0	01/03/12 11:35 / js
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/04/12 12:18 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E908.0	01/04/12 12:18 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/04/12 12:18 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.9	pCi/L	U	0.9		E909.0	01/07/12 20:25 / eli-cs
Lead 210 precision (±)	0.5	pCi/L				E909.0	01/07/12 20:25 / eli-cs
Lead 210 MDC	0.9	pCi/L				E909.0	01/07/12 20:25 / eli-cs
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.2	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.6	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 12:58 / trs
Radium 226 precision (±)	0.05	pCi/L				E903.0	01/09/12 12:58 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 12:58 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/06/12 08:42 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/06/12 08:42 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/06/12 08:42 / dmf
DATA QUALITY							
A/C Balance (± 5)	4.47	%				Calculation	01/04/12 08:42 / kbh
Anions	3.30	meq/L				Calculation	01/04/12 08:42 / kbh
Cations	3.61	meq/L				Calculation	01/04/12 08:42 / kbh
Solids, Total Dissolved Calculated	181	mg/L				Calculation	01/04/12 08:42 / kbh
TDS Balance (0.80 - 1.20)	1.29					Calculation	01/04/12 08:42 / kbh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R154609
Sample ID: MBLK										
	3	Method Blank								Run: MANTECH_111220A 12/20/11 16:01
Alkalinity, Total as CaCO3		3	mg/L	2						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		4	mg/L	1						
Sample ID: LCS-6465										
		Laboratory Control Sample								Run: MANTECH_111220A 12/20/11 16:17
Alkalinity, Total as CaCO3		193	mg/L	5.0	95	90	110			
Sample ID: C11120626-001ADUP										
	3	Sample Duplicate								Run: MANTECH_111220A 12/20/11 20:27
Alkalinity, Total as CaCO3		3640	mg/L	5.0				0.2	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		4440	mg/L	5.0				0.2	10	
Sample ID: C11120636-001AMS										
		Sample Matrix Spike								Run: MANTECH_111220A 12/20/11 20:44
Alkalinity, Total as CaCO3		584	mg/L	5.0	91	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B								Analytical Run: ORION555A_111221A		
Sample ID: ICV2_111221_1		Initial Calibration Verification Standard								12/21/11 10:12
Conductivity @ 25 C		1480	umhos/cm	1.0	105	90	110			
Method: A2510 B								Batch: 111221_1_PH-W_555A-1		
Sample ID: MBLK1_111221_1		Method Blank								12/21/11 10:04
Conductivity @ 25 C		0.6	umhos/cm	0.2						
Sample ID: C11120626-001ADUP		Sample Duplicate								12/21/11 10:52
Conductivity @ 25 C		10300	umhos/cm	1.0				0.3	10	
Method: A2510 B								Analytical Run: PHSC_101-C_111220B		
Sample ID: ICV2_111220_1		Initial Calibration Verification Standard								12/20/11 16:47
Conductivity @ 25 C		1420	umhos/cm	1.0	100	90	110			
Method: A2510 B								Batch: R154653		
Sample ID: MBLK1_111220_1		Method Blank								12/20/11 16:42
Conductivity @ 25 C		2	umhos/cm	0.2						
Sample ID: C11120670-001ADUP		Sample Duplicate								12/21/11 14:10
Conductivity @ 25 C		1580	umhos/cm	1.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 111220_1_SLDS-TDS-W		
Sample ID: MBLK1_111220		Method Blank					Run: BAL-1_111222A			12/20/11 16:50
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_111220		Laboratory Control Sample					Run: BAL-1_111222A			12/20/11 16:50
Solids, Total Dissolved TDS @ 180 C		1650	mg/L	10	99	90	110			
Sample ID: C11120476-001ADUP		Sample Duplicate					Run: BAL-1_111222A			12/20/11 16:51
Solids, Total Dissolved TDS @ 180 C		1080	mg/L	10				0.2	5	
Sample ID: C11120623-001AMS		Sample Matrix Spike					Run: BAL-1_111222A			12/20/11 16:54
Solids, Total Dissolved TDS @ 180 C		780	mg/L	10	28	90	110			S

- Matrix spike recoveries outside the acceptance range are considered matrix-related.

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R154719
Sample ID: MBLK		Method Blank								Run: MANTECH_111222B 12/22/11 11:17
Fluoride		ND	mg/L	0.008						
Sample ID: LCS-6622		Laboratory Control Sample								Run: MANTECH_111222B 12/22/11 11:21
Fluoride		2.00	mg/L	0.10	100	90	110			
Sample ID: C11120623-001BMS		Sample Matrix Spike								Run: MANTECH_111222B 12/22/11 11:47
Fluoride		2.39	mg/L	0.10	96	80	120			
Sample ID: C11120623-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_111222B 12/22/11 11:51
Fluoride		2.43	mg/L	0.10	98	80	120	1.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Analytical Run: ORION555A_111221A		
Sample ID: ICV1_111221_1		Initial Calibration Verification Standard						12/21/11 10:06		
pH		6.94	s.u.	0.010	101	98	102			
Method: A4500-H B								Batch: 111221_1_PH-W_555A-1		
Sample ID: C11120626-001ADUP		Sample Duplicate				Run: ORION555A_111221A		12/21/11 10:52		
pH		7.87	s.u.	0.010				2.4	3	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R154713
Sample ID: MBLK-1 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_111222A 12/22/11 11:56
Sample ID: LCS-2 Nitrogen, Ammonia as N		Laboratory Control Sample 2.06	mg/L	0.050	103	90	110			Run: TECHNICON_111222A 12/22/11 11:58
Sample ID: LFB-3 Nitrogen, Ammonia as N		Laboratory Fortified Blank 2.01	mg/L	0.050	103	80	120			Run: TECHNICON_111222A 12/22/11 12:00
Sample ID: C11120636-001DMS Nitrogen, Ammonia as N		Sample Matrix Spike 2.09	mg/L	0.050	100	90	110			Run: TECHNICON_111222A 12/22/11 12:32
Sample ID: C11120636-001DMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 2.14	mg/L	0.050	103	90	110	2.4	10	Run: TECHNICON_111222A 12/22/11 12:34

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: ICP2-C_120112A		
Sample ID: ICV	2	Initial Calibration Verification Standard								01/12/12 16:08
Molybdenum		0.983	mg/L	0.10	98	95	105			
Silicon		10.4	mg/L	0.10	104	95	105			
Sample ID: ICSA	2	Interference Check Sample A								01/12/12 16:37
Molybdenum		-0.0158	mg/L	0.10						
Silicon		0.0116	mg/L	0.10						
Sample ID: ICSAB	2	Interference Check Sample AB								01/12/12 16:41
Molybdenum		-0.0141	mg/L	0.10						
Silicon		0.00850	mg/L	0.10						
Method: E200.7								Batch: R155341		
Sample ID: MB-120111A	2	Method Blank				Run: ICP2-C_120112A		01/12/12 17:01		
Molybdenum		0.001	mg/L	0.001						
Silicon		0.02	mg/L	0.007						
Sample ID: LFB-120111A	2	Laboratory Fortified Blank				Run: ICP2-C_120112A		01/12/12 17:05		
Molybdenum		0.926	mg/L	0.10	92	85	115			
Silicon		0.428	mg/L	0.10	91	85	115			
Sample ID: C11120623-001CMS2	2	Sample Matrix Spike				Run: ICP2-C_120112A		01/12/12 18:10		
Molybdenum		92.4	mg/L	0.12	90	70	130			
Silicon		77.3	mg/L	0.67	94	70	130			
Sample ID: C11120623-001CMSD	2	Sample Matrix Spike Duplicate				Run: ICP2-C_120112A		01/12/12 18:14		
Molybdenum		93.9	mg/L	0.12	92	70	130	1.6	20	
Silicon		78.4	mg/L	0.67	97	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8								Analytical Run: ICPMS2-C_111227A			
Sample ID: ICV	Initial Calibration Verification Standard									12/27/11 11:15	
Uranium		0.0507	mg/L	0.00030	101	90	110				
Method: E200.8								Batch: 32280			
Sample ID: MB-32280	Method Blank									Run: ICPMS2-C_111227A	12/27/11 19:05
Uranium		9E-05	mg/L	6E-05							
Sample ID: LCS2-32201	Laboratory Control Sample									Run: ICPMS2-C_111227A	12/27/11 19:06
Uranium		0.0950	mg/L	0.00030	95	85	115				
Sample ID: C11120623-006HMS	Sample Matrix Spike									Run: ICPMS2-C_111227A	12/27/11 19:28
Uranium		0.00269	mg/L	0.00030	57	70	130			S	
Sample ID: C11120623-006HMSD	Sample Matrix Spike Duplicate									Run: ICPMS2-C_111227A	12/27/11 19:30
Uranium		0.00715	mg/L	0.00030	158	70	130	91	20	SR	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										Analytical Run: ICPMS4-C_111221A	
Sample ID: ICV	15	Initial Calibration Verification Standard							12/21/11 11:54		
Arsenic		0.0490	mg/L	0.0010	98	90	110				
Barium		0.0476	mg/L	0.0010	95	90	110				
Cadmium		0.0484	mg/L	0.0010	97	90	110				
Calcium		9.63	mg/L	0.0066	96	90	110				
Chromium		0.0493	mg/L	0.0010	99	90	110				
Copper		0.0503	mg/L	0.0010	101	90	110				
Lead		0.0481	mg/L	0.0010	96	90	110				
Magnesium		9.66	mg/L	0.0027	97	90	110				
Manganese		0.0478	mg/L	0.0010	96	90	110				
Nickel		0.0494	mg/L	0.0010	99	90	110				
Potassium		9.64	mg/L	0.0041	96	90	110				
Selenium		0.0494	mg/L	0.0010	99	90	110				
Sodium		9.32	mg/L	0.0043	93	90	110				
Vanadium		0.0501	mg/L	0.0010	100	90	110				
Zinc		0.0502	mg/L	0.0010	100	90	110				

Method: E200.8										Batch: R154680A	
Sample ID: C11120623-002CMS4	15	Sample Matrix Spike							Run: ICPMS4-C_111221A		12/21/11 23:00
Arsenic		0.0559	mg/L	0.0010	105	70	130				
Barium		0.195	mg/L	0.10	108	70	130				
Cadmium		0.0517	mg/L	0.010	103	70	130				
Calcium		44.9	mg/L	1.0	100	70	130				
Chromium		0.0547	mg/L	0.050	109	70	130				
Copper		0.0560	mg/L	0.010	111	70	130				
Lead		0.0545	mg/L	0.050	109	70	130				
Magnesium		18.7	mg/L	1.0	99	70	130				
Manganese		0.0561	mg/L	0.010	111	70	130				
Nickel		0.0537	mg/L	0.050	107	70	130				
Potassium		17.8	mg/L	1.0	103	70	130				
Selenium		0.0559	mg/L	0.0010	97	70	130				
Sodium		37.5	mg/L	1.0	99	70	130				
Vanadium		0.0670	mg/L	0.0010	117	70	130				
Zinc		0.150	mg/L	0.010	92	70	130				

Sample ID: C11120623-002CMSD	15	Sample Matrix Spike Duplicate							Run: ICPMS4-C_111221A		12/21/11 23:07
Arsenic		0.0563	mg/L	0.0010	106	70	130	0.8	20		
Barium		0.197	mg/L	0.10	112	70	130	0.9	20		
Cadmium		0.0527	mg/L	0.010	105	70	130	1.9	20		
Calcium		45.1	mg/L	1.0	102	70	130	0.4	20		
Chromium		0.0544	mg/L	0.050	108	70	130	0.7	20		
Copper		0.0552	mg/L	0.010	109	70	130	1.5	20		
Lead		0.0570	mg/L	0.050	114	70	130	4.5	20		
Magnesium		18.9	mg/L	1.0	101	70	130	1.0	20		
Manganese		0.0565	mg/L	0.010	112	70	130	0.6	20		

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R154680A		
Sample ID: C11120623-002CMSD	15	Sample Matrix Spike Duplicate					Run: ICPMS4-C_111221A			12/21/11 23:07
Nickel		0.0540	mg/L	0.050	107	70	130	0.5	20	
Potassium		17.8	mg/L	1.0	103	70	130	0.1	20	
Selenium		0.0561	mg/L	0.0010	97	70	130	0.4	20	
Sodium		37.6	mg/L	1.0	100	70	130	0.2	20	
Vanadium		0.0681	mg/L	0.0010	119	70	130	1.5	20	
Zinc		0.152	mg/L	0.010	96	70	130	1.3	20	
Sample ID: LRB	15	Method Blank					Run: ICPMS4-C_111221A			12/21/11 13:17
Arsenic		ND	mg/L	5E-05						
Barium		ND	mg/L	7E-05						
Cadmium		ND	mg/L	3E-05						
Calcium		ND	mg/L	0.007						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	3E-05						
Lead		ND	mg/L	2E-05						
Magnesium		ND	mg/L	0.003						
Manganese		ND	mg/L	3E-05						
Nickel		ND	mg/L	9E-05						
Potassium		0.01	mg/L	0.004						
Selenium		ND	mg/L	7E-05						
Sodium		ND	mg/L	0.004						
Vanadium		ND	mg/L	4E-05						
Zinc		ND	mg/L	0.0002						
Sample ID: LFB	15	Laboratory Fortified Blank					Run: ICPMS4-C_111221A			12/21/11 13:37
Arsenic		0.0533	mg/L	0.0010	107	85	115			
Barium		0.0523	mg/L	0.0010	105	85	115			
Cadmium		0.0526	mg/L	0.0010	105	85	115			
Calcium		12.2	mg/L	0.0066	97	85	115			
Chromium		0.0526	mg/L	0.0010	105	85	115			
Copper		0.0514	mg/L	0.0010	103	85	115			
Lead		0.0475	mg/L	0.0010	95	85	115			
Magnesium		12.5	mg/L	0.0027	100	85	115			
Manganese		0.0524	mg/L	0.0010	105	85	115			
Nickel		0.0538	mg/L	0.0010	108	85	115			
Potassium		12.3	mg/L	0.0041	98	85	115			
Selenium		0.0544	mg/L	0.0010	109	85	115			
Sodium		12.4	mg/L	0.0043	99	85	115			
Vanadium		0.0494	mg/L	0.0010	99	85	115			
Zinc		0.0550	mg/L	0.0010	110	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS4-C_111230A								
Sample ID: ICV	20	Initial Calibration Verification Standard							12/30/11 10:59	
Aluminum		0.0482	mg/L	0.0010	96	90	110			
Arsenic		0.0497	mg/L	0.0010	99	90	110			
Barium		0.0494	mg/L	0.0010	99	90	110			
Boron		0.0502	mg/L	0.0010	100	90	110			
Cadmium		0.0503	mg/L	0.0010	101	90	110			
Calcium		9.70	mg/L	0.0066	97	90	110			
Chromium		0.0497	mg/L	0.0010	99	90	110			
Copper		0.0503	mg/L	0.0010	101	90	110			
Iron		1.07	mg/L	0.0010	107	90	110			
Lead		0.0492	mg/L	0.0010	98	90	110			
Magnesium		9.67	mg/L	0.0027	97	90	110			
Manganese		0.0501	mg/L	0.0010	100	90	110			
Mercury		0.00519	mg/L	0.0010	104	90	110			
Nickel		0.0500	mg/L	0.0010	100	90	110			
Potassium		9.72	mg/L	0.0041	97	90	110			
Selenium		0.0522	mg/L	0.0010	104	90	110			
Sodium		9.69	mg/L	0.0043	97	90	110			
Uranium		0.0494	mg/L	0.00030	99	90	110			
Vanadium		0.0491	mg/L	0.0010	98	90	110			
Zinc		0.0513	mg/L	0.0010	103	90	110			

Method: E200.8		Batch: R154953A								
Sample ID: LRB	20	Method Blank							Run: ICPMS4-C_111230A	12/30/11 12:08
Aluminum		ND	mg/L	0.0002						
Arsenic		ND	mg/L	5E-05						
Barium		ND	mg/L	7E-05						
Boron		ND	mg/L	0.0004						
Cadmium		ND	mg/L	3E-05						
Calcium		ND	mg/L	0.007						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	3E-05						
Iron		ND	mg/L	0.0006						
Lead		ND	mg/L	2E-05						
Magnesium		ND	mg/L	0.003						
Manganese		ND	mg/L	3E-05						
Mercury		ND	mg/L	5E-05						
Nickel		ND	mg/L	9E-05						
Potassium		ND	mg/L	0.004						
Selenium		ND	mg/L	7E-05						
Sodium		ND	mg/L	0.004						
Uranium		5E-05	mg/L	9E-06						
Vanadium		ND	mg/L	4E-05						
Zinc		ND	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										
Batch: R154953A										
Sample ID: LFB	20	Laboratory Fortified Blank								
Aluminum		0.0522	mg/L	0.0010	104	85	115			
Arsenic		0.0523	mg/L	0.0010	105	85	115			
Barium		0.0503	mg/L	0.0010	101	85	115			
Boron		0.0491	mg/L	0.0010	98	85	115			
Cadmium		0.0511	mg/L	0.0010	102	85	115			
Calcium		12.7	mg/L	0.0066	102	85	115			
Chromium		0.0516	mg/L	0.0010	103	85	115			
Copper		0.0517	mg/L	0.0010	103	85	115			
Iron		1.29	mg/L	0.0010	103	85	115			
Lead		0.0508	mg/L	0.0010	102	85	115			
Magnesium		12.6	mg/L	0.0027	101	85	115			
Manganese		0.0513	mg/L	0.0010	103	85	115			
Mercury		0.00506	mg/L	0.0010	101	85	115			
Nickel		0.0518	mg/L	0.0010	103	85	115			
Potassium		12.7	mg/L	0.0041	101	85	115			
Selenium		0.0510	mg/L	0.0010	102	85	115			
Sodium		12.7	mg/L	0.0043	102	85	115			
Uranium		0.0503	mg/L	0.00030	100	85	115			
Vanadium		0.0515	mg/L	0.0010	103	85	115			
Zinc		0.0539	mg/L	0.0010	108	85	115			
Sample ID: C11120623-006CMS4 20 Sample Matrix Spike										
Aluminum		0.0483	mg/L	0.0010	63	70	130			S
Arsenic		0.0565	mg/L	0.0010	105	70	130			
Barium		0.147	mg/L	0.10	106	70	130			
Boron		0.0680	mg/L	0.0010	86	70	130			
Cadmium		0.0508	mg/L	0.010	102	70	130			
Calcium		45.2	mg/L	1.0	111	70	130			
Chromium		0.0513	mg/L	0.050	102	70	130			
Copper		0.0518	mg/L	0.010	98	70	130			
Iron		1.32	mg/L	0.030	101	70	130			
Lead		0.0516	mg/L	0.050	103	70	130			
Magnesium		19.9	mg/L	1.0	108	70	130			
Manganese		0.0605	mg/L	0.010	100	70	130			
Mercury		0.00518	mg/L	0.0010	104	70	130			
Nickel		0.0486	mg/L	0.0010	96	70	130			
Potassium		17.5	mg/L	1.0	106	70	130			
Selenium		0.0560	mg/L	0.0010	111	70	130			
Sodium		44.9	mg/L	1.0	109	70	130			
Uranium		0.0579	mg/L	0.00030	104	70	130			
Vanadium		0.0551	mg/L	0.0010	97	70	130			
Zinc		0.302	mg/L	0.010		70	130			A
Sample ID: C11120623-006CMSD 20 Sample Matrix Spike Duplicate										
Aluminum		0.0487	mg/L	0.0010	64	70	130	0.8	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R154953A		
Sample ID: C11120623-006CMSD				20	Sample Matrix Spike Duplicate		Run: ICPMS4-C_111230A		12/30/11 19:50	
Arsenic		0.0566	mg/L	0.0010	105	70	130	0.2	20	
Barium		0.145	mg/L	0.10	104	70	130	0.8	20	
Boron		0.0697	mg/L	0.0010	89	70	130	2.5	20	
Cadmium		0.0509	mg/L	0.010	102	70	130	0.1	20	
Calcium		45.1	mg/L	1.0	111	70	130	0.1	20	
Chromium		0.0517	mg/L	0.050	102	70	130	0.7	20	
Copper		0.0521	mg/L	0.010	99	70	130	0.7	20	
Iron		1.33	mg/L	0.030	102	70	130	1.1	20	
Lead		0.0511	mg/L	0.050	102	70	130	1.0	20	
Magnesium		20.0	mg/L	1.0	108	70	130	0.2	20	
Manganese		0.0607	mg/L	0.010	101	70	130	0.5	20	
Mercury		0.00524	mg/L	0.0010	105	70	130	1.2	20	
Nickel		0.0497	mg/L	0.0010	98	70	130	2.4	20	
Potassium		17.8	mg/L	1.0	108	70	130	1.5	20	
Selenium		0.0554	mg/L	0.0010	110	70	130	1.1	20	
Sodium		44.2	mg/L	1.0	104	70	130	1.5	20	
Uranium		0.0578	mg/L	0.00030	104	70	130	0.1	20	
Vanadium		0.0560	mg/L	0.0010	98	70	130	1.7	20	
Zinc		0.303	mg/L	0.010		70	130	0.3	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_111227A		
Sample ID: ICV-122711-10	2	Initial Calibration Verification Standard								12/27/11 14:36
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			
Sample ID: ICB2-122711-12	2	Initial Calibration Blank, Instrument Blank								12/27/11 15:03
Chloride		0.0510	mg/L	1.0		0	0			
Sulfate		0.202	mg/L	1.0		0	0			
Method: E300.0								Batch: R154870		
Sample ID: ICB-122711-11	2	Method Blank								Run: IC2-C_111227A 12/27/11 14:50
Chloride		ND	mg/L	0.10						
Sulfate		0.2	mg/L	0.08						
Sample ID: LFB-122711-13	2	Laboratory Fortified Blank								Run: IC2-C_111227A 12/27/11 15:17
Chloride		10.3	mg/L	1.0	103	90	110			
Sulfate		39.9	mg/L	1.0	99	90	110			
Sample ID: LFBD-122711-14	2	Laboratory Fortified Blank Duplicate								Run: IC2-C_111227A 12/27/11 15:30
Chloride		10.4	mg/L	1.0	103	90	110	0.5	10	
Sulfate		39.9	mg/L	1.0	99	90	110	0.1	10	
Sample ID: LCS-32231	2	Laboratory Control Sample								Run: IC2-C_111227A 12/27/11 16:37
Chloride		10.4	mg/L	1.0	104	90	110			
Sulfate		43.6	mg/L	1.0	102	90	110			
Sample ID: C11120623-003BMS	2	Sample Matrix Spike								Run: IC2-C_111227A 12/28/11 09:48
Chloride		12.7	mg/L	1.0	102	90	110			
Sulfate		46.2	mg/L	1.0	102	90	110			
Sample ID: C11120623-003BMSD	2	Sample Matrix Spike Duplicate								Run: IC2-C_111227A 12/28/11 10:01
Chloride		12.7	mg/L	1.0	103	90	110	0.1	10	
Sulfate		46.6	mg/L	1.0	103	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R154654
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_111221A 12/21/11 12:50
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.52	mg/L	0.10	101	90	110			Run: TECHNICON_111221A 12/21/11 12:53
Sample ID: LFB-3 Nitrogen, Nitrate+Nitrite as N		Laboratory Fortified Blank 1.97	mg/L	0.10	101	90	110			Run: TECHNICON_111221A 12/21/11 12:55
Sample ID: C11120631-001AMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.09	mg/L	0.10	101	90	110			Run: TECHNICON_111221A 12/21/11 13:35
Sample ID: C11120631-001AMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.08	mg/L	0.10	100	90	110	0.5	10	Run: TECHNICON_111221A 12/21/11 13:38

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0										
Batch: R155169										
Sample ID: C11120623-003HMS		Sample Matrix Spike								
Radium 226		9.8	pCi/L	97		70	130			01/09/12 12:58
Sample ID: C11120623-003HMSD		Sample Matrix Spike Duplicate								
Radium 226		9.2	pCi/L	90		70	130	6.5		25.8
Sample ID: LCS-32280		Laboratory Control Sample								
Radium 226		11	pCi/L	88		85	115			01/09/12 12:58
Sample ID: MB-32280	3	Method Blank								
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							
Method: E903.0										
Batch: RA226-5765										
Sample ID: C11101104-002CMS		Sample Matrix Spike								
Radium 226		13	pCi/L	97		70	130			01/03/12 11:35
Sample ID: C11101104-002CMSD		Sample Matrix Spike Duplicate								
Radium 226		13	pCi/L	98		70	130	0.2		24.2
Sample ID: MB-RA226-5765	3	Method Blank								
Radium 226		0.10	pCi/L							U
Radium 226 precision (±)		0.10	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Sample ID: LCS-RA226-5765		Laboratory Control Sample								
Radium 226		6.0	pCi/L	94		80	120			01/03/12 13:18

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1540		
Sample ID: LCS-RA-TH-ISO-1540	Laboratory Control Sample			Run: EGG-ORTEC_111220B		01/03/12 13:19				
Thorium 230		5.3	pCi/L	94		70	130			
Sample ID: C11120623-006EMS	Sample Matrix Spike			Run: EGG-ORTEC_111220B		01/04/12 12:18				
Thorium 230		11	pCi/L	95		70	130			
Sample ID: C11120623-006EMSD	Sample Matrix Spike Duplicate			Run: EGG-ORTEC_111220B		01/04/12 12:18				
Thorium 230		11	pCi/L	91		70	130	4.4	38	
Sample ID: MB-RA-TH-ISO-1540	3	Method Blank		Run: EGG-ORTEC_111220B		01/04/12 12:18				
Thorium 230		-0.01	pCi/L							U
Thorium 230 precision (±)		0.05	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E908.0								Batch: 32280		
Sample ID: C11120623-006HMS	Sample Matrix Spike			Run: EGG-ORTEC_120103C		01/06/12 08:42				
Thorium 230		8.2	pCi/L	104		70	130			
Sample ID: C11120623-006HMSD	Sample Matrix Spike Duplicate			Run: EGG-ORTEC_120103C		01/06/12 08:42				
Thorium 230		8.6	pCi/L	108		70	130	4.8	38.3	
Sample ID: LCS-32280	Laboratory Control Sample			Run: EGG-ORTEC_120103C		01/06/12 13:00				
Thorium 230		10	pCi/L	103		70	130			
Sample ID: MB-32280	3	Method Blank		Run: EGG-ORTEC_120103C		01/06/12 13:00				
Thorium 230		0.007	pCi/L							U
Thorium 230 precision (±)		0.1	pCi/L							
Thorium 230 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0198		
Sample ID: MB-PB-210-0198	3	Method Blank				Run: SUB-T43504				12/31/11 03:07
Lead 210		0.1	pCi/L							U
Lead 210 precision (±)		0.4	pCi/L							
Lead 210 MDC		0.7	pCi/L							
Sample ID: LCS-PB-210-0198		Laboratory Control Sample				Run: SUB-T43504				12/31/11 08:38
Lead 210		87	pCi/L	103		70	130			
Sample ID: C11120623-006GMS		Sample Matrix Spike				Run: SUB-T43504				01/02/12 10:17
Lead 210		200	pCi/L	104		70	130			
Sample ID: C11120623-006GMSD		Sample Matrix Spike Duplicate				Run: SUB-T43504				01/02/12 15:48
Lead 210		210	pCi/L	108		70	130	3.7	12.2	
Method: E909.0								Batch: T_15485		
Sample ID: MB-15485	3	Method Blank				Run: SUB-T43556				01/07/12 05:50
Lead 210		-2	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		9	pCi/L							
Sample ID: LCS-15485		Laboratory Control Sample				Run: SUB-T43556				01/07/12 07:55
Lead 210		570	pCi/L	101		70	130			
Sample ID: C11120623-006HMS		Sample Matrix Spike				Run: SUB-T43556				01/07/12 22:30
Lead 210		150	pCi/L	101		70	130			
Sample ID: C11120623-006HMSD		Sample Matrix Spike Duplicate				Run: SUB-T43556				01/08/12 00:35
Lead 210		150	pCi/L	102		70	130	3.7	14.1	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120623

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: R156705										
Sample ID: C11120623-004HMS		Sample Matrix Spike								
Polonium 210		5.7	pCi/L	88		70	130			02/23/12 13:35
Sample ID: C11120623-004HMSD		Sample Matrix Spike Duplicate								
Polonium 210		5.1	pCi/L	79		70	130	11	82.3	02/23/12 13:35
Sample ID: LCS-32280		Laboratory Control Sample								
Polonium 210		35	pCi/L	101		70	130			02/23/12 13:35
Sample ID: MB-32280	3	Method Blank								
Polonium 210		-0.1	pCi/L							U
Polonium 210 precision (±)		2	pCi/L							
Polonium 210 MDC		7	pCi/L							
Method: E912.0										
Batch: PO210-0414										
Sample ID: C11120623-002FMS		Sample Matrix Spike								
Polonium 210		13	pCi/L	102		70	130			01/27/12 08:27
Sample ID: C11120623-002FMSD		Sample Matrix Spike Duplicate								
Polonium 210		12	pCi/L	95		70	130	8.4	108.8	01/27/12 08:27
Sample ID: MB-PO210-0414	3	Method Blank								
Polonium 210		0.4	pCi/L							U
Polonium 210 precision (±)		0.6	pCi/L							
Polonium 210 MDC		0.9	pCi/L							
Sample ID: LCS-PO210-0414		Laboratory Control Sample								
Polonium 210		5.0	pCi/L	75		70	130			02/02/12 08:46

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11120623

Login completed by: Debra Williams
Reviewed by: BL2000\cwagner
Reviewed Date: 12/22/2011

Date Received: 12/20/2011

Received by: kg

Carrier NDA
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 2.6°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂⁻

DATE: 12.16.11

ANALYST: MO

STANDARD CURVE DATA

	BL	.01	.05	.10			9.9998
Abs	000	.027	.153	.314			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ mg/L
1 703	10ml	1	-.001	<.01
2 723	10ml	1	.001	<.01
3 727	10ml	1	.004	<.01
4 727 Dup	10ml	1	.006	<.01
5 741	10ml	1	-.004	<.01
745	10ml	1	-.002	<.01
6 759	10ml	1	-.002	<.01
7 759 Dup	10ml	1	-.000	<.01
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

ANALYTICAL SUMMARY REPORT

February 28, 2012

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C11120731 Quote ID: C1125 - Crow Butte Uranium

Project Name: Marsland Baseline Private Well Samples

Energy Laboratories, Inc. Casper WY received the following 1 sample for Crow Butte Resources on 12/23/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11120731-001	Well #723	12/20/11 00:00	12/23/11	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity QA Calculations Conductivity Fluoride E300.0 Anions Uranium, Suspended Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

If you have any questions regarding these test results, please call.

Report Approved By:

CLIENT: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Sample Delivery Group: C11120731

Report Date: 02/28/12

CASE NARRATIVE

pH COMMENTS

Per NELAC rule, pH is considered a field parameter with a holding time of 15 minutes. Due to this rule, all pH analyses will be flagged with an H.

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-CS were subcontracted to Energy Laboratories, 415 Graham Rd., College Station, TX, EPA Number TX01520.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120731-001
Client Sample ID: Well #723

Report Date: 02/28/12
Collection Date: 12/20/11
Date Received: 12/23/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	149	mg/L		1		A2320 B	12/28/11 14:33 / jba
Carbonate as CO ₃	ND	mg/L		1		A2320 B	12/28/11 14:33 / jba
Bicarbonate as HCO ₃	182	mg/L		1		A2320 B	12/28/11 14:33 / jba
Calcium	34	mg/L		1		E200.8	12/30/11 20:04 / sml
Chloride	2	mg/L		1		E300.0	12/30/11 02:22 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/29/11 12:17 / jba
Magnesium	9	mg/L		1		E200.8	12/30/11 20:04 / sml
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/29/11 16:24 / dc
Nitrogen, Nitrate+Nitrite as N	0.7	mg/L		0.1		E353.2	12/23/11 14:15 / dc
Potassium	3	mg/L		1		E200.8	12/30/11 20:04 / sml
Silica	75.6	mg/L		0.2		E200.7	01/14/12 13:02 / cp
Sodium	22	mg/L		1		E200.8	12/30/11 20:04 / sml
Sulfate	9	mg/L		1		E300.0	12/30/11 02:22 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	306	umhos/cm		1		A2510 B	12/28/11 09:13 / wc
pH	7.72	s.u.	H	0.01		A4500-H B	12/28/11 09:13 / wc
Solids, Total Dissolved TDS @ 180 C	215	mg/L		10		A2540 C	12/23/11 12:32 / wc
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Arsenic	0.006	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Barium	0.1	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Boron	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/30/11 20:04 / sml
Chromium	ND	mg/L		0.05		E200.8	12/30/11 20:04 / sml
Copper	0.06	mg/L		0.01		E200.8	12/30/11 20:04 / sml
Iron	ND	mg/L		0.03		E200.8	12/30/11 20:04 / sml
Lead	ND	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Manganese	ND	mg/L		0.01		E200.8	12/30/11 20:04 / sml
Mercury	ND	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Molybdenum	ND	mg/L		0.1		E200.7	01/11/12 16:34 / cp
Nickel	ND	mg/L		0.05		E200.8	12/30/11 20:04 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/30/11 20:04 / sml
Uranium	0.0058	mg/L		0.0003		E200.8	12/30/11 20:04 / sml
Uranium, Activity	3.9E-09	uCi/mL		2.0E-10		E200.8	12/30/11 20:04 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/30/11 20:04 / sml
Zinc	0.19	mg/L		0.01		E200.8	12/30/11 20:04 / sml
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/30/11 21:07 / sml
Uranium, Activity	ND	uCi/mL		2.0E-10		E200.8	12/30/11 21:07 / sml

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Marsland Baseline Private Well Samples
Lab ID: C11120731-001
Client Sample ID: Well #723

Report Date: 02/28/12
Collection Date: 12/20/11
Date Received: 12/23/11
Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.0	pCi/L	U	1.0		E909.0	01/07/12 04:43 / eli-cs
Lead 210 precision (±)	0.6	pCi/L				E909.0	01/07/12 04:43 / eli-cs
Lead 210 MDC	1.0	pCi/L				E909.0	01/07/12 04:43 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	01/27/12 10:10 / plj
Polonium 210 precision (±)	0.7	pCi/L				E912.0	01/27/12 10:10 / plj
Polonium 210 MDC	0.9	pCi/L				E912.0	01/27/12 10:10 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	01/09/12 12:56 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/09/12 12:56 / trs
Radium 226 MDC	0.2	pCi/L				E903.0	01/09/12 12:56 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E908.0	01/12/12 09:23 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E908.0	01/12/12 09:23 / dmf
Thorium 230 MDC	0.1	pCi/L				E908.0	01/12/12 09:23 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.8	pCi/L	U	0.8		E909.0	01/08/12 17:15 / eli-cs
Lead 210 precision (±)	0.4	pCi/L				E909.0	01/08/12 17:15 / eli-cs
Lead 210 MDC	0.8	pCi/L				E909.0	01/08/12 17:15 / eli-cs
Polonium 210	<0.9	pCi/L	U	0.9		E912.0	02/23/12 13:35 / ep
Polonium 210 precision (±)	0.4	pCi/L				E912.0	02/23/12 13:35 / ep
Polonium 210 MDC	0.9	pCi/L				E912.0	02/23/12 13:35 / ep
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/09/12 14:30 / trs
Radium 226 precision (±)	0.06	pCi/L				E903.0	01/09/12 14:30 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	01/09/12 14:30 / trs
Thorium 230	0.1	pCi/L		0.04		E908.0	01/06/12 19:17 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E908.0	01/06/12 19:17 / dmf
Thorium 230 MDC	0.04	pCi/L				E908.0	01/06/12 19:17 / dmf
DATA QUALITY							
A/C Balance (± 5)	1.91	%				Calculation	01/04/12 08:43 / kbh
Anions	3.31	meq/L				Calculation	01/04/12 08:43 / kbh
Cations	3.44	meq/L				Calculation	01/04/12 08:43 / kbh
Solids, Total Dissolved Calculated	172	mg/L				Calculation	01/04/12 08:43 / kbh
TDS Balance (0.80 - 1.20)	1.24					Calculation	01/04/12 08:43 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R154864
Sample ID: MBLK										
	3	Method Blank								Run: MANTECH_111228A 12/28/11 11:13
Alkalinity, Total as CaCO3		3	mg/L	2						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS-6465										
		Laboratory Control Sample								Run: MANTECH_111228A 12/28/11 11:35
Alkalinity, Total as CaCO3		193	mg/L	5.0	95	90	110			
Sample ID: C11120665-003ADUP										
	3	Sample Duplicate								Run: MANTECH_111228A 12/28/11 12:34
Alkalinity, Total as CaCO3		343	mg/L	5.0				1.2	10	
Carbonate as CO3		ND	mg/L	5.0					10	
Bicarbonate as HCO3		419	mg/L	5.0				2.8	10	
Sample ID: C11120665-004AMS										
		Sample Matrix Spike								Run: MANTECH_111228A 12/28/11 12:50
Alkalinity, Total as CaCO3		553	mg/L	5.0	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Analytical Run: ORION555A_111228A			
Sample ID: ICV2_111228_1	Initial Calibration Verification Standard									
Conductivity @ 25 C		1410	umhos/cm	1.0	100	90	110			12/28/11 08:52
Method: A2510 B							Batch: 111228_1_PH-W_555A-1			
Sample ID: MBLK1_111228_1	Method Blank									
Conductivity @ 25 C		0.8	umhos/cm	0.2						Run: ORION555A_111228A 12/28/11 08:49
Sample ID: C11120714-001ADUP	Sample Duplicate									
Conductivity @ 25 C		1180	umhos/cm	1.0				0.1	10	Run: ORION555A_111228A 12/28/11 09:22

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 111223_1_SLDS-TDS-W		
Sample ID: MBLK1_111223		Method Blank				Run: BAL-1_111223A			12/23/11 09:20	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	4						
Sample ID: LCS1_111223		Laboratory Control Sample				Run: BAL-1_111223A			12/23/11 09:20	
Solids, Total Dissolved TDS @ 180 C		1670	mg/L	10	100	90	110			
Sample ID: C11120723-003AMS		Sample Matrix Spike				Run: BAL-1_111223A			12/23/11 12:30	
Solids, Total Dissolved TDS @ 180 C		64400	mg/L	120	101	90	110			
Sample ID: C11120739-003ADUP		Sample Duplicate				Run: BAL-1_111223A			12/23/11 12:33	
Solids, Total Dissolved TDS @ 180 C		410	mg/L	10				0.8	5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R154884
Sample ID: MBLK		Method Blank								Run: MANTECH_111229A 12/29/11 12:02
Fluoride		0.01	mg/L	0.008						
Sample ID: LCS-6622		Laboratory Control Sample								Run: MANTECH_111229A 12/29/11 12:05
Fluoride		2.00	mg/L	0.10	100	90	110			
Sample ID: C11120731-001BMS		Sample Matrix Spike								Run: MANTECH_111229A 12/29/11 12:23
Fluoride		2.62	mg/L	0.10	99	80	120			
Sample ID: C11120731-001BMSD		Sample Matrix Spike Duplicate								Run: MANTECH_111229A 12/29/11 12:25
Fluoride		2.62	mg/L	0.10	99	80	120	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-H B							Analytical Run: ORION555A_111228A				
Sample ID: ICV1_111228_1	Initial Calibration Verification Standard										
pH		6.80	s.u.	0.010	99	98	102			12/28/11 08:51	
Method: A4500-H B							Batch: 111228_1_PH-W_555A-1				
Sample ID: C11120714-001ADUP	Sample Duplicate										
pH		11.0	s.u.	0.010				0.0	3	Run: ORION555A_111228A 12/28/11 09:22	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R154889
Sample ID: MBLK-1 Nitrogen, Ammonia as N		Method Blank ND	mg/L	0.02						Run: TECHNICON_111229B 12/29/11 15:16
Sample ID: LCS-2 Nitrogen, Ammonia as N		Laboratory Control Sample 2.03	mg/L	0.050	100	90	110			Run: TECHNICON_111229B 12/29/11 15:18
Sample ID: LFB-3 Nitrogen, Ammonia as N		Laboratory Fortified Blank 2.07	mg/L	0.050	105	80	120			Run: TECHNICON_111229B 12/29/11 15:20
Sample ID: C11120723-001DMS Nitrogen, Ammonia as N		Sample Matrix Spike 9.68	mg/L	0.25	99	90	110			Run: TECHNICON_111229B 12/29/11 16:14
Sample ID: C11120723-001DMSD Nitrogen, Ammonia as N		Sample Matrix Spike Duplicate 9.68	mg/L	0.25	99	90	110	0.0	10	Run: TECHNICON_111229B 12/29/11 16:16

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: ICP2-C_120111A		
Sample ID: ICV	Initial Calibration Verification Standard									
Molybdenum		0.989	mg/L	0.10	99	95	105			01/11/12 13:05
Sample ID: ICSA	Interference Check Sample A									
Molybdenum		-0.0139	mg/L	0.10						01/11/12 13:39
Sample ID: ICSAB	Interference Check Sample AB									
Molybdenum		-0.0151	mg/L	0.10						01/11/12 13:43
Method: E200.7								Batch: R155281		
Sample ID: MB-120110A	Method Blank									
Molybdenum		0.003	mg/L	0.001						01/11/12 14:04
Sample ID: LFB-120110A	Laboratory Fortified Blank									
Molybdenum		0.922	mg/L	0.10	92	85	115			01/11/12 14:08
Sample ID: C11120719-003BMS2	Sample Matrix Spike									
Molybdenum		1.88	mg/L	0.0023	91	70	130			01/11/12 16:17
Sample ID: C11120719-003BMSD	Sample Matrix Spike Duplicate									
Molybdenum		1.91	mg/L	0.0023	93	70	130	1.6	20	01/11/12 16:21
Method: E200.7								Analytical Run: ICP2-C_120114A		
Sample ID: ICV	Initial Calibration Verification Standard									
Silicon		10.5	mg/L	0.10	105	95	105			01/14/12 10:02
Sample ID: ICSA	Interference Check Sample A									
Silicon		0.0145	mg/L	0.10						01/14/12 10:31
Sample ID: ICSAB	Interference Check Sample AB									
Silicon		0.00940	mg/L	0.10						01/14/12 10:35
Method: E200.7								Batch: R155357		
Sample ID: MB-120114A	Method Blank									
Silicon		0.01	mg/L	0.007						01/14/12 10:55
Sample ID: LFB-120114A	Laboratory Fortified Blank									
Silicon		0.464	mg/L	0.10	101	85	115			01/14/12 10:59
Sample ID: C11120881-001BMS2	Sample Matrix Spike									
Silicon		0.888	mg/L	0.10	106	70	130			01/14/12 13:14
Sample ID: C11120881-001BMSD	Sample Matrix Spike Duplicate									
Silicon		0.896	mg/L	0.10	107	70	130	0.9	20	01/14/12 13:18

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Analytical Run: ICPMS2-C_111230A		
Sample ID: ICV	Initial Calibration Verification Standard									12/30/11 10:23
Uranium		0.0496	mg/L	0.00030	99	90	110			
Method: E200.8								Batch: 32300		
Sample ID: MB-32300	Method Blank									Run: ICPMS2-C_111230A 12/30/11 20:54
Uranium		0.0001	mg/L	6E-05						
Sample ID: LCS2-32300	Laboratory Control Sample									Run: ICPMS2-C_111230A 12/30/11 21:03
Uranium		0.0982	mg/L	0.00030	98	85	115			
Sample ID: C11120731-001HMS	Sample Matrix Spike									Run: ICPMS2-C_111230A 12/30/11 21:09
Uranium		0.00436	mg/L	0.00030	97	70	130			
Sample ID: C11120731-001HMSD	Sample Matrix Spike Duplicate									Run: ICPMS2-C_111230A 12/30/11 21:10
Uranium		0.00433	mg/L	0.00030	96	70	130	0.6	20	

Qualifiers:

RL - Analyte reporting limit.

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MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8		Analytical Run: ICPMS4-C_111230A								
Sample ID: ICV	20	Initial Calibration Verification Standard							12/30/11 10:59	
Aluminum		0.0482	mg/L	0.0010	96	90	110			
Arsenic		0.0497	mg/L	0.0010	99	90	110			
Barium		0.0494	mg/L	0.0010	99	90	110			
Boron		0.0502	mg/L	0.0010	100	90	110			
Cadmium		0.0503	mg/L	0.0010	101	90	110			
Calcium		9.70	mg/L	0.0066	97	90	110			
Chromium		0.0497	mg/L	0.0010	99	90	110			
Copper		0.0503	mg/L	0.0010	101	90	110			
Iron		1.07	mg/L	0.0010	107	90	110			
Lead		0.0492	mg/L	0.0010	98	90	110			
Magnesium		9.67	mg/L	0.0027	97	90	110			
Manganese		0.0501	mg/L	0.0010	100	90	110			
Mercury		0.00519	mg/L	0.0010	104	90	110			
Nickel		0.0500	mg/L	0.0010	100	90	110			
Potassium		9.72	mg/L	0.0041	97	90	110			
Selenium		0.0522	mg/L	0.0010	104	90	110			
Sodium		9.69	mg/L	0.0043	97	90	110			
Uranium		0.0494	mg/L	0.00030	99	90	110			
Vanadium		0.0491	mg/L	0.0010	98	90	110			
Zinc		0.0513	mg/L	0.0010	103	90	110			

Method: E200.8		Batch: R154953A								
Sample ID: LRB	20	Method Blank							Run: ICPMS4-C_111230A	12/30/11 12:08
Aluminum		ND	mg/L	0.0002						
Arsenic		ND	mg/L	5E-05						
Barium		ND	mg/L	7E-05						
Boron		ND	mg/L	0.0004						
Cadmium		ND	mg/L	3E-05						
Calcium		ND	mg/L	0.007						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	3E-05						
Iron		ND	mg/L	0.0006						
Lead		ND	mg/L	2E-05						
Magnesium		ND	mg/L	0.003						
Manganese		ND	mg/L	3E-05						
Mercury		ND	mg/L	5E-05						
Nickel		ND	mg/L	9E-05						
Potassium		ND	mg/L	0.004						
Selenium		ND	mg/L	7E-05						
Sodium		ND	mg/L	0.004						
Uranium		5E-05	mg/L	9E-06						
Vanadium		ND	mg/L	4E-05						
Zinc		ND	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R154953A		
Sample ID: LFB		20 Laboratory Fortified Blank			Run: ICPMS4-C_111230A			12/30/11 12:15		
Aluminum		0.0522	mg/L	0.0010	104	85	115			
Arsenic		0.0523	mg/L	0.0010	105	85	115			
Barium		0.0503	mg/L	0.0010	101	85	115			
Boron		0.0491	mg/L	0.0010	98	85	115			
Cadmium		0.0511	mg/L	0.0010	102	85	115			
Calcium		12.7	mg/L	0.0066	102	85	115			
Chromium		0.0516	mg/L	0.0010	103	85	115			
Copper		0.0517	mg/L	0.0010	103	85	115			
Iron		1.29	mg/L	0.0010	103	85	115			
Lead		0.0508	mg/L	0.0010	102	85	115			
Magnesium		12.6	mg/L	0.0027	101	85	115			
Manganese		0.0513	mg/L	0.0010	103	85	115			
Mercury		0.00506	mg/L	0.0010	101	85	115			
Nickel		0.0518	mg/L	0.0010	103	85	115			
Potassium		12.7	mg/L	0.0041	101	85	115			
Selenium		0.0510	mg/L	0.0010	102	85	115			
Sodium		12.7	mg/L	0.0043	102	85	115			
Uranium		0.0503	mg/L	0.00030	100	85	115			
Vanadium		0.0515	mg/L	0.0010	103	85	115			
Zinc		0.0539	mg/L	0.0010	108	85	115			
Sample ID: C11120623-006CMS4		20 Sample Matrix Spike			Run: ICPMS4-C_111230A			12/30/11 19:44		
Aluminum		0.0483	mg/L	0.0010	63	70	130			S
Arsenic		0.0565	mg/L	0.0010	105	70	130			
Barium		0.147	mg/L	0.10	106	70	130			
Boron		0.0680	mg/L	0.0010	86	70	130			
Cadmium		0.0508	mg/L	0.010	102	70	130			
Calcium		45.2	mg/L	1.0	111	70	130			
Chromium		0.0513	mg/L	0.050	102	70	130			
Copper		0.0518	mg/L	0.010	98	70	130			
Iron		1.32	mg/L	0.030	101	70	130			
Lead		0.0516	mg/L	0.050	103	70	130			
Magnesium		19.9	mg/L	1.0	108	70	130			
Manganese		0.0605	mg/L	0.010	100	70	130			
Mercury		0.00518	mg/L	0.0010	104	70	130			
Nickel		0.0486	mg/L	0.0010	96	70	130			
Potassium		17.5	mg/L	1.0	106	70	130			
Selenium		0.0560	mg/L	0.0010	111	70	130			
Sodium		44.9	mg/L	1.0	109	70	130			
Uranium		0.0579	mg/L	0.00030	104	70	130			
Vanadium		0.0551	mg/L	0.0010	97	70	130			
Zinc		0.302	mg/L	0.010		70	130			A
Sample ID: C11120623-006CMSD		20 Sample Matrix Spike Duplicate			Run: ICPMS4-C_111230A			12/30/11 19:50		
Aluminum		0.0487	mg/L	0.0010	64	70	130	0.8	20	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R154953A		
Sample ID: C11120623-006CMSD				20	Sample Matrix Spike Duplicate		Run: ICPMS4-C_111230A		12/30/11 19:50	
Arsenic		0.0566	mg/L	0.0010	105	70	130	0.2	20	
Barium		0.145	mg/L	0.10	104	70	130	0.8	20	
Boron		0.0697	mg/L	0.0010	89	70	130	2.5	20	
Cadmium		0.0509	mg/L	0.010	102	70	130	0.1	20	
Calcium		45.1	mg/L	1.0	111	70	130	0.1	20	
Chromium		0.0517	mg/L	0.050	102	70	130	0.7	20	
Copper		0.0521	mg/L	0.010	99	70	130	0.7	20	
Iron		1.33	mg/L	0.030	102	70	130	1.1	20	
Lead		0.0511	mg/L	0.050	102	70	130	1.0	20	
Magnesium		20.0	mg/L	1.0	108	70	130	0.2	20	
Manganese		0.0607	mg/L	0.010	101	70	130	0.5	20	
Mercury		0.00524	mg/L	0.0010	105	70	130	1.2	20	
Nickel		0.0497	mg/L	0.0010	98	70	130	2.4	20	
Potassium		17.8	mg/L	1.0	108	70	130	1.5	20	
Selenium		0.0554	mg/L	0.0010	110	70	130	1.1	20	
Sodium		44.2	mg/L	1.0	104	70	130	1.5	20	
Uranium		0.0578	mg/L	0.00030	104	70	130	0.1	20	
Vanadium		0.0560	mg/L	0.0010	98	70	130	1.7	20	
Zinc		0.303	mg/L	0.010		70	130	0.3	20	A

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_111229A		
Sample ID: ICV-122911-10	2	Initial Calibration Verification Standard								12/29/11 14:44
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		40.4	mg/L	1.0	101	90	110			
Method: E300.0								Batch: R154925		
Sample ID: ICB-122911-11	2	Method Blank					Run: IC2-C_111229A			12/29/11 14:57
Chloride		ND	mg/L	0.10						
Sulfate		0.2	mg/L	0.08						
Sample ID: LFB-122911-12	2	Laboratory Fortified Blank					Run: IC2-C_111229A			12/29/11 15:11
Chloride		10.3	mg/L	1.0	103	90	110			
Sulfate		40.2	mg/L	1.0	100	90	110			
Sample ID: C11120685-001AMS	2	Sample Matrix Spike					Run: IC2-C_111229A			12/29/11 18:45
Chloride		26.8	mg/L	1.0	101	90	110			
Sulfate		226	mg/L	1.6	91	90	110			
Sample ID: C11120685-001AMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_111229A			12/29/11 18:59
Chloride		26.7	mg/L	1.0	101	90	110	0.2	10	
Sulfate		225	mg/L	1.6	90	90	110	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R154758
Sample ID: MBLK-1 Nitrogen, Nitrate+Nitrite as N		Method Blank ND	mg/L	0.06						Run: TECHNICON_111223A 12/23/11 11:50
Sample ID: LCS-2 Nitrogen, Nitrate+Nitrite as N		Laboratory Control Sample 2.55	mg/L	0.10	102	90	110			Run: TECHNICON_111223A 12/23/11 11:53
Sample ID: LFB-3 Nitrogen, Nitrate+Nitrite as N		Laboratory Fortified Blank 1.97	mg/L	0.10	101	90	110			Run: TECHNICON_111223A 12/23/11 11:55
Sample ID: C11120736-001AMS Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike 2.08	mg/L	0.10	99	90	110			Run: TECHNICON_111223A 12/23/11 13:25
Sample ID: C11120736-001AMSD Nitrogen, Nitrate+Nitrite as N		Sample Matrix Spike Duplicate 2.12	mg/L	0.10	101	90	110	1.9	10	Run: TECHNICON_111223A 12/23/11 13:28

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-5771		
Sample ID: MB-RA226-5771	3	Method Blank								
Radium 226		-0.03	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-5771		Laboratory Control Sample								
Radium 226		6.5	pCi/L	103		80	120			
Sample ID: C11120751-001EMS		Sample Matrix Spike								
Radium 226		15	pCi/L	117		70	130			
Sample ID: C11120751-001EMSD		Sample Matrix Spike Duplicate								
Radium 226		16	pCi/L	125		70	130	6.3	26.4	
Method: E903.0								Batch: R155169		
Sample ID: C11120623-003HMS		Sample Matrix Spike								
Radium 226		9.8	pCi/L	97		70	130			
Sample ID: C11120623-003HMSD		Sample Matrix Spike Duplicate								
Radium 226		9.2	pCi/L	90		70	130	6.5	25.8	
Sample ID: LCS-32280		Laboratory Control Sample								
Radium 226		11	pCi/L	88		85	115			
Sample ID: MB-32280	3	Method Blank								
Radium 226		0.03	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E908.0								Batch: RA-TH-ISO-1546		
Sample ID: LCS-RA-TH-ISO-1546	Laboratory Control Sample			Run: ALPHANALYST_120110A		01/12/12 09:23				
Thorium 230		6.12	pCi/L	108		70	130			
Sample ID: C11120731-001DMS	Sample Matrix Spike			Run: ALPHANALYST_120110A		01/12/12 09:23				
Thorium 230		11	pCi/L	100		70	130			
Sample ID: C11120731-001DMSD	Sample Matrix Spike Duplicate			Run: ALPHANALYST_120110A		01/12/12 09:24				
Thorium 230		9.4	pCi/L	85		70	130	17	39.4	
Sample ID: MB-RA-TH-ISO-1546	3	Method Blank		Run: ALPHANALYST_120110A		01/12/12 09:24				
Thorium 230		-0.02	pCi/L	U						
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.2	pCi/L							
Method: E908.0								Batch: 32300		
Sample ID: C11120731-001HMS	Sample Matrix Spike			Run: EGG-ORTEC_120103B		01/06/12 19:17				
Thorium 230		4.5	pCi/L	104		70	130			
Sample ID: C11120731-001HMSD	Sample Matrix Spike Duplicate			Run: EGG-ORTEC_120103B		01/06/12 19:17				
Thorium 230		5.1	pCi/L	117		70	130	12	34.6	
Sample ID: LCS-32300	Laboratory Control Sample			Run: EGG-ORTEC_120103B		01/06/12 19:17				
Thorium 230		5.76	pCi/Filter	116		70	130			
Sample ID: MB-32300	3	Method Blank		Run: EGG-ORTEC_120103B		01/06/12 19:17				
Thorium 230		0.1	pCi/Filter							
Thorium 230 precision (±)		0.07	pCi/Filter							
Thorium 230 MDC		0.08	pCi/Filter							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0								Batch: T_PB-210-0200R		
Sample ID: MB-PB-210-0200	3	Method Blank				Run: SUB-T43555				01/06/12 19:44
Lead 210		-0.4	pCi/L							U
Lead 210 precision (±)		0.6	pCi/L							
Lead 210 MDC		1	pCi/L							
Sample ID: LCS-PB-210-0200		Laboratory Control Sample				Run: SUB-T43555				01/06/12 21:59
Lead 210		86	pCi/L	102		70	130			
Sample ID: C11120731-001EMS		Sample Matrix Spike				Run: SUB-T43555				01/07/12 06:58
Lead 210		160	pCi/L	99		70	130			
Sample ID: C11120731-001EMSD		Sample Matrix Spike Duplicate				Run: SUB-T43555				01/07/12 09:13
Lead 210		170	pCi/L	107		70	130	6.9	13.8	
Method: E909.0								Batch: T_15486		
Sample ID: MB-15486	3	Method Blank				Run: SUB-T43556				01/08/12 02:40
Lead 210		0.9	pCi/Filter							U
Lead 210 precision (±)		5	pCi/Filter							
Lead 210 MDC		9	pCi/Filter							
Sample ID: LCS-15486		Laboratory Control Sample				Run: SUB-T43556				01/08/12 04:45
Lead 210		611	pCi/Filter	109		70	130			
Sample ID: C11120710-003AMS		Sample Matrix Spike				Run: SUB-T43556				01/08/12 13:05
Lead 210		1960	pCi/Filter	115		70	130			
Sample ID: C11120710-003AMSD		Sample Matrix Spike Duplicate				Run: SUB-T43556				01/08/12 15:10
Lead 210		2040	pCi/Filter	119		70	130	3.6	13.7	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Crow Butte Resources

Report Date: 02/28/12

Project: Marsland Baseline Private Well Samples

Work Order: C11120731

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: R156705										
Sample ID: C11120623-004HMS		Sample Matrix Spike								
Polonium 210		5.7	pCi/L	88		70	130			02/23/12 13:35
Sample ID: C11120623-004HMSD		Sample Matrix Spike Duplicate								
Polonium 210		5.1	pCi/L	79		70	130	11	82.3	02/23/12 13:35
Sample ID: LCS-32280		Laboratory Control Sample								
Polonium 210		35	pCi/L	101		70	130			02/23/12 13:35
Sample ID: MB-32280	3	Method Blank								
Polonium 210		-0.1	pCi/L							U
Polonium 210 precision (±)		2	pCi/L							
Polonium 210 MDC		7	pCi/L							
Method: E912.0										
Batch: PO210-0414										
Sample ID: C11120623-002FMS		Sample Matrix Spike								
Polonium 210		13	pCi/L	102		70	130			01/27/12 08:27
Sample ID: C11120623-002FMSD		Sample Matrix Spike Duplicate								
Polonium 210		12	pCi/L	95		70	130	8.4	108.8	01/27/12 08:27
Sample ID: MB-PO210-0414	3	Method Blank								
Polonium 210		0.4	pCi/L							U
Polonium 210 precision (±)		0.6	pCi/L							
Polonium 210 MDC		0.9	pCi/L							
Sample ID: LCS-PO210-0414		Laboratory Control Sample								
Polonium 210		5.0	pCi/L	75		70	130			02/02/12 08:46

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C11120731

Login completed by: Corinne Wagner

Date Received: 12/23/2011

Reviewed by: BL2000\emcpike

Received by: wc

Reviewed Date: 12/27/2011

Carrier Next Day Air Saver
name:

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time?
(Exclude analyses that are considered field parameters
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 3.2°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples for dissolved/suspended metals and radiochem were subsampled, filtered and preserved with 2 mL HNO3 in lab upon receipt to pH <2.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc. Report Mail Address: P.O. Box 169 Crawford, NE 69339 Invoice Address: P.O. Box 169 Crawford, NE 69339	Project Name: Marstrand Baseline Private Well Samples Contact Name: Larry Teahon Phone/Fax: 308-665-2341 Email: daxmynus@msn.com	Sample Origin State: Purchase Order: 1125	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) Brooke Bass Rhonda Pelton Quote/Bottle Order:																																																																		
Special Report/Formats - ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> GSA <input type="checkbox"/> POT/WWTP <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) Format: <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC	Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114 Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	ANALYSIS REQUESTED SEE ATTACHED Normal Turnaround (TAT)	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments: NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L. Please Report 1/30/12																																																																		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) 1 Well #723 2 3 4 5 6 7 8 9 10	MATRIX Water	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>RAW-F, Common Ions</th> <th>RAW-UF, Alkalinity</th> <th>H2SO4-F, NO2, NO3, NH4</th> <th>RAW-UF, Ra226, Po210 dis, sus</th> <th>RAW-UF, Pb210 dis and sus</th> <th>RAW-UF, Th230, U-nat dis and sus</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>5</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	RAW-UF, Ra226, Po210 dis, sus	RAW-UF, Pb210 dis and sus	RAW-UF, Th230, U-nat dis and sus	1	1	5	1	1	1																																																							Shipped by: Cooler ID(s): Receipt Temp: 2.2 °C On Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No Custody Seal Intact: <input checked="" type="radio"/> Y <input type="radio"/> N Signature Match: <input checked="" type="radio"/> Y <input type="radio"/> N
RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	RAW-UF, Ra226, Po210 dis, sus	RAW-UF, Pb210 dis and sus	RAW-UF, Th230, U-nat dis and sus																																																																
1	1	5	1	1	1																																																																
Relinquished by (print): Brooke Bass Relinquished by (print): 	Date/Time: 12/21/11 Date/Time:	Received by (print): Larry Teahon Received by (print): 	Date/Time: 12/23/11 Date/Time:																																																																		
Custody Record MUST be Signed	Signature: Brooke Bass Signature:	Signature: Larry Teahon Signature:	Signature: Wendy Carstensen Signature:																																																																		

LABORATORY USE ONLY

C112073

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information. downloadable fee schedule. forms. and links