APPENDIX oφpπ/

Surface Water Quality Analytical Results

SampleID	Sample Date	LabID	Page
BK01	11/07	R07110302-004	293
BLK01	12/07	R07120148-005	336
	03/08	R08030091-006	467
	04/08	R08040220-002	572
	05/08	R08050356-005	613
BVC01	07/07	R07070382-001	26
	08/07	R07080273-001	56
	09/07	R07090368-002	93
	10/07	R07100295-003	180
	11/07	R07110229-002	248
	12/07	R07120148-002	324
	12/07	R07120148-003	328
	01/08	R08010124-002	362
	03/08	R08030091-005	463
	04/08	R08040178-004	543
	05/08	R08050356-002	601
	06/08	R08060315-002	644
BVC04	07/07	R07070382-002	28
	08/07	R07080273-002	58
	10/07	R07100001-001	152
	10/07	R07100295-001	174
	11/07	R07110229-003	252
	12/07	R07120148-001	320
	01/08	R08010124-003	366
	03/08	R08030091-002	451
	03/08	R08030091-003	455
	04/08	R08040178-003	539
	05/08	R08050356-004	609
	06/08	R08060315-004	652
CHR01	08/07	R07080019-001	40
	09/07	R07090098-001	72
	09/07	R07090098-002	74
	09/07	R07090368-001	90
	10/07	R07100295-002	177
	11/07	R07110229-001	244
	03/08	R08030091-004	459
	04/08	R08040220-001	568
	05/08	R08050356-003	605
	06/08	R08060315-003	648

SampleID	Sample Date	LabID	Page
CHR05	08/07	R07080019-002	42
	09/07	R07090098-003	76
	09/07	R07090368-004	99
	10/07	R07100295-004	183
	11/07	R07110229-004	256
	12/07	R07120148-004	332
	01/08	R08010124-001	358
	02/08	R08020131-001	418
	03/08	R08030091-001	447
	04/08	R08040178-001	531
	04/08	R08040178-002	535
	05/08	R08050356-001	597
	06/08	R08060315-001	640
PSC01	07/07	R07070315-001	7
	07/08	R08070340-001	784
	07/08	R08070343-001	830
PSC02	07/07	R07070315-002	9
	07/08	R08070340-002	788
	07/08	R08070343-002	833
	07/08	R08070343-003	836
SUB01	03/08	R08030252-003	499
	06/08	R08060347-001	700
SUB02	09/07	R07090389-002	119
	11/07	R07110147-001	205
	02/08	R08020083-003	395
	06/08	R08060347-002	704
	06/08	R08060347-003	708
SUB03	11/07	R07110147-003	213
	06/08	R08060347-004	712
SUB04	11/07	R07110147-002	209
	06/08	R08060316-001	676
SUB06	09/07	R07090389-003	122
	11/07	R07110302-001	281
	11/07	R07110302-002	285
	02/08	R08020083-002	391
	06/08	R08060403-003	747
SUB07	09/07	R07090389-001	116
	11/07	R07110147-004	217
	03/08	R08030252-002	495
	06/08	R08060403-004	751

SampleID	Sample Date	LabID	Page
SUB08	09/07	R07090368-003	96
	02/08	R08020083-001	388
	06/08	R08060403-001	739
SUB09	03/08	R08030252-004	503
	06/08	R08060403-002	743
SUB10	03/08	R08030252-005	507
	06/08	R08060403-006	759
SUB11	09/07	R07090389-004	125
	11/07	R07110302-003	289
	03/08	R08030252-001	491
	06/08	R08060403-005	755
SUB24	02/08	R08020131-002	422
UNT01	07/08	R08070342-001	810

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

November 09, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Revised Fecal #'s

Workorder No.: R07070315

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/20/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070315-001	DewBurd PSC01	07/19/07 10:45	07/20/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070315-002	DewBurd PSC02	07/19/07 11:30	07/20/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *09-Nov-07*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07070315

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- reissue of fecal data requested by client

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Revised Date: 11/09/07
Report Date: 09/03/07
Collection Date: 07/19/07 10:45
Date Received: 07/20/07
Matrix: AQUEOUS

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-001
Client Sample ID: DewBurd PSC01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4000	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
Value is approximate. A small enough aliquot was not used to determine an accurate result.								
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Calcium	510	mg/L	D	1		10	E200.7	08/03/07 13:28/eli-c
Chloride	2.8	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Magnesium	30.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Nitrogen, Nitrate as N	0.77	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Potassium	12.4	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Silica	16.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sodium	6.3	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sulfate	1400	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1840	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.16	s.u.		0.01		1	A4500-H B	07/24/07 17:21/ch
Solids, Suspended Sediment SSC @ 105 C	134	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	07/25/07 08:49/jn
Solids, Total Suspended TSS @ 105 C	150	mg/L		5		1	A2540 D	07/23/07 15:29/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:27/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	08/02/07 01:27/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Barium	0.2	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 21:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Iron	2.00	mg/L		0.03		1	E200.7	08/02/07 21:57/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Revised Date: 11/09/07
Report Date: 09/03/07
Collection Date: 07/19/07 10:45
Date Received: 07/20/07
Matrix: AQUEOUS

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-001
Client Sample ID: DewBurd PSC01

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/28/07 08:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Uranium	0.0100	mg/L		0.0003		10	E200.8	07/28/07 08:20/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.8	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	15.1	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.54	%				1	A1030 E	08/28/07 11:21/lkl
Anions	30.5	meq/L				1	A1030 E	08/28/07 11:21/lkl
Cations	29.0	meq/L				1	A1030 E	08/28/07 11:21/lkl
Solids, Total Dissolved Calculated	2020	mg/L				1	A1030 E	08/28/07 11:21/lkl
TDS Balance (0.80 - 1.20)	0.860	dec. %				1	A1030 E	08/28/07 11:21/lkl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Revised Date: 11/09/07
Report Date: 09/03/07
Collection Date: 07/19/07 11:30
Date Received: 07/20/07
Matrix: AQUEOUS

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-002
Client Sample ID: DewBurd PSC02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4400	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
Value is approximate. A small enough aliquot was not used to determine an accurate result.								
MAJOR IONS								
Alkalinity, Total as CaCO3	50	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Bicarbonate as HCO3	61	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Calcium	270	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Chloride	1.6	mg/L		1.0		1	E300.0	07/20/07 21:47/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 21:47/jmh
Magnesium	18	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Nitrogen, Nitrate as N	0.56	mg/L		0.10		1	E300.0	07/20/07 21:47/jmh
Potassium	8	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Silica	7	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Sodium	2	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Sulfate	645	mg/L	D	14		20	E300.0	07/26/07 01:01/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1240	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.26	s.u.		0.01		1	A4500-H B	07/24/07 17:22/ch
Solids, Suspended Sediment SSC @ 105 C	108	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	07/23/07 11:53/jn
Solids, Total Suspended TSS @ 105 C	140	mg/L		5		1	A2540 D	07/23/07 15:30/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:33/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	08/02/07 01:33/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c
Barium	0.3	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 22:04/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:27/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:27/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
Iron	0.28	mg/L		0.03		1	E200.7	08/02/07 22:54/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c
Manganese	0.12	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Revised Date: 11/09/07
Report Date: 09/03/07
Collection Date: 07/19/07 11:30
Date Received: 07/20/07
Matrix: AQUEOUS

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-002
Client Sample ID: DewBurd PSC02

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:27/eli-c
Selenium	0.003	mg/L	D	0.002		10	E200.8	07/28/07 08:27/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:27/eli-c
Uranium	0.0012	mg/L		0.0003		10	E200.8	07/28/07 08:27/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.9	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	11.9	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.42	%				1	A1030 E	08/28/07 11:21/lkl
Anions	14.5	meq/L				1	A1030 E	08/28/07 11:21/lkl
Cations	15.6	meq/L				1	A1030 E	08/28/07 11:21/lkl
Solids, Total Dissolved Calculated	998	mg/L				1	A1030 E	08/28/07 11:21/lkl
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	08/28/07 11:21/lkl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 03, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07070315

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/20/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070315-001	DewBurd PSC01	07/19/07 10:45	07/20/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070315-002	DewBurd PSC02	07/19/07 11:30	07/20/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-001
Client Sample ID: DewBurd PSC01

Report Date: 09/03/07
Collection Date: 07/19/07 10:45
Date Received: 07/20/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	>2000	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	07/23/07 17:44/jn
Calcium	510	mg/L	D	1		10	E200.7	08/03/07 13:28/eli-c
Chloride	2.8	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Magnesium	30.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Nitrogen, Nitrate as N	0.77	mg/L		0.10		1	E300.0	07/20/07 20:58/jmh
Potassium	12.4	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Silica	16.5	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sodium	6.3	mg/L		0.5		1	E200.7	08/02/07 21:57/eli-c
Sulfate	1400	mg/L		1.0		1	E300.0	07/20/07 20:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1840	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.16	s.u.		0.01		1	A4500-H B	07/24/07 17:21/ch
Solids, Suspended Sediment SSC @ 105 C	134	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	07/25/07 08:49/jn
Solids, Total Suspended TSS @ 105 C	150	mg/L		5		1	A2540 D	07/23/07 15:29/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:27/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	08/02/07 01:27/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Barium	0.2	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 21:57/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Iron	2.00	mg/L		0.03		1	E200.7	08/02/07 21:57/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:20/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-001
Client Sample ID: DewBurd PSC01

Report Date: 09/03/07
Collection Date: 07/19/07 10:45
Date Received: 07/20/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:20/eli-c
Selenium	0.002	mg/L	D	0.002		10	E200.8	07/28/07 08:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:20/eli-c
Uranium	0.0100	mg/L		0.0003		10	E200.8	07/28/07 08:20/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:20/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	07/28/07 08:20/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.8	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	15.1	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	3.6	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.54	%				1	A1030 E	08/28/07 11:21/lkl
Anions	30.5	meq/L				1	A1030 E	08/28/07 11:21/lkl
Cations	29.0	meq/L				1	A1030 E	08/28/07 11:21/lkl
Solids, Total Dissolved Calculated	2020	mg/L				1	A1030 E	08/28/07 11:21/lkl
TDS Balance (0.80 - 1.20)	0.860	dec. %				1	A1030 E	08/28/07 11:21/lkl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-002
Client Sample ID: DewBurd PSC02

Report Date: 09/03/07
Collection Date: 07/19/07 11:30
Date Received: 07/20/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	>2000	CFU/100ml	D	10		10	A9222 D	07/20/07 10:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	50	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Bicarbonate as HCO3	61	mg/L		5		1	A2320 B	07/23/07 17:43/jn
Calcium	270	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Chloride	1.6	mg/L		1.0		1	E300.0	07/20/07 21:47/jmh
Fluoride	0.14	mg/L		0.10		1	E300.0	07/20/07 21:47/jmh
Magnesium	18	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Nitrogen, Nitrate as N	0.56	mg/L		0.10		1	E300.0	07/20/07 21:47/jmh
Potassium	8	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Silica	7	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Sodium	2	mg/L		1		1	E200.7	08/02/07 22:54/eli-c
Sulfate	645	mg/L	D	14		20	E300.0	07/26/07 01:01/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1240	umhos/cm		5		1	A2510 B	07/24/07 18:04/ch
pH	7.26	s.u.		0.01		1	A4500-H B	07/24/07 17:22/ch
Solids, Suspended Sediment SSC @ 105 C	108	mg/L		5		1	D3977	07/20/07 15:02/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	07/23/07 11:53/jn
Solids, Total Suspended TSS @ 105 C	140	mg/L		5		1	A2540 D	07/23/07 15:30/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:33/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	08/02/07 01:33/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c
Barium	0.3	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/02/07 22:04/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/28/07 08:27/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	07/28/07 08:27/eli-c
Copper	ND	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
Iron	0.28	mg/L		0.03		1	E200.7	08/02/07 22:54/eli-c
Lead	0.002	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c
Manganese	0.12	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	07/28/07 08:27/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070315-002
Client Sample ID: DewBurd PSC02

Report Date: 09/03/07
Collection Date: 07/19/07 11:30
Date Received: 07/20/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Nickel	ND	mg/L		0.05		10	E200.8	07/28/07 08:27/eli-c
Selenium	0.003	mg/L	D	0.002		10	E200.8	07/28/07 08:27/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/28/07 08:27/eli-c
Uranium	0.0012	mg/L		0.0003		10	E200.8	07/28/07 08:27/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	07/28/07 08:27/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	07/28/07 08:27/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.9	pCi/L		1.0		1	E900.0	08/06/07 00:52/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Gross Beta	11.9	pCi/L		2.0		1	E900.0	08/06/07 00:52/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	08/06/07 00:52/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/01/07 15:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	3.42	%				1	A1030 E	08/28/07 11:21/lkl
Anions	14.5	meq/L				1	A1030 E	08/28/07 11:21/lkl
Cations	15.6	meq/L				1	A1030 E	08/28/07 11:21/lkl
Solids, Total Dissolved Calculated	998	mg/L				1	A1030 E	08/28/07 11:21/lkl
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	08/28/07 11:21/lkl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 070723A-ALK-SEL-W	
Sample ID: MBLK1_070723A	Method Blank				Run: PH_COND1-R_070723A			07/23/07 17:32	
Alkalinity, Total as CaCO3	4	mg/L	3						
Sample ID: LCS1_070723A	Laboratory Control Sample				Run: PH_COND1-R_070723A			07/23/07 17:34	
Alkalinity, Total as CaCO3	988	mg/L	5.0	98	90	110			
Method: A2510 B								Batch: 070724_1_COND-PROBE-W	
Sample ID: LCS1-1_070724	Laboratory Control Sample				Run: PH_COND2-R_070724B			07/24/07 17:54	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_070724	Laboratory Control Sample				Run: PH_COND2-R_070724B			07/24/07 17:56	
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_070724	Laboratory Control Sample				Run: PH_COND2-R_070724B			07/24/07 17:57	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_070724	Method Blank				Run: PH_COND2-R_070724B			07/24/07 17:58	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 070723A-SLDS-TDS-W	
Sample ID: MBLK1_070723A	Method Blank				Run: BAL-4-R_070723B			07/23/07 11:48	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_070723A	Laboratory Control Sample				Run: BAL-4-R_070723B			07/23/07 11:49	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	106	90	110			
Sample ID: R07070329-001BMS	Sample Matrix Spike				Run: BAL-4-R_070723B			07/23/07 11:55	
Solids, Total Dissolved TDS @ 180 C	2800	mg/L	5.0	111	80	120			
Method: A2540 D								Batch: 070723A-SLDS-TSS-W	
Sample ID: MBLK1_070723A	Method Blank				Run: BAL-4-R_070723A			07/23/07 13:15	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070723A	Laboratory Control Sample				Run: BAL-4-R_070723A			07/23/07 13:16	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Method: A4500-H B								Batch: 070724_1_PH-W	
Sample ID: LCS_pH-1_070724	Laboratory Control Sample				Run: PH_COND2-R_070724A			07/24/07 17:17	
pH	6.86	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D								Batch: 070720-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070720A			07/20/07 10:45	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Method: D3977								Batch: 070720A-SLDS-SSC-W	
Sample ID: MBLK1_070720A	Method Blank				Run: BAL-4-R_070720A			07/20/07 14:51	
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R87501	
Sample ID: LRB	Method Blank				Run: SUB-C87501			08/02/07 15:09	
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Silicon as SiO2	ND	mg/L	0.06						
Sample ID: R07070315-002D	Sample Matrix Spike				Run: SUB-C87501			08/02/07 22:07	
Boron	0.534	mg/L	0.10	94	70	130			
Calcium	322	mg/L	0.50		70	130			A
Magnesium	68.7	mg/L	0.50	96	70	130			
Potassium	56.9	mg/L	0.50	96	70	130			
Sodium	50.5	mg/L	0.50	97	70	130			
Sample ID: R07070315-002D	Sample Matrix Spike Duplicate				Run: SUB-C87501			08/02/07 22:10	
Boron	0.523	mg/L	0.10	92	70	130	2.1	20	
Calcium	308	mg/L	0.50		70	130	4.3	20	A
Magnesium	66.8	mg/L	0.50	93	70	130	2.8	20	
Potassium	55.9	mg/L	0.50	94	70	130	1.8	20	
Sodium	49.2	mg/L	0.50	94	70	130	2.6	20	
Sample ID: C07071132-001AMS	Sample Matrix Spike				Run: SUB-C87501			08/02/07 23:13	
Boron	4.6	mg/L	0.10	93	70	130			
Iron	4.5	mg/L	0.051	90	70	130			
Calcium	1200	mg/L	1.1	84	70	130			
Magnesium	520	mg/L	1.1	95	70	130			
Potassium	1300	mg/L	0.84	94	70	130			
Silica	6.7	mg/L	0.42	86	70	130			
Sodium	480	mg/L	1.2	91	70	130			
Sample ID: C07071132-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C87501			08/02/07 23:16	
Boron	4.7	mg/L	0.10	94	70	130	1.5	20	
Iron	4.6	mg/L	0.051	92	70	130	1.6	20	
Calcium	1200	mg/L	1.1	84	70	130	0.0	20	
Magnesium	520	mg/L	1.1	96	70	130	0.4	20	
Potassium	1300	mg/L	0.84	94	70	130	0.1	20	
Silica	6.3	mg/L	0.42	79	70	130	5.7	20	
Sodium	480	mg/L	1.2	92	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8									Batch: C_R87501
Sample ID: LFB-ICP25304	Laboratory Fortified Blank				Run: SUB-C87501				08/02/07 14:55
Boron	1.9	mg/L	0.10	95	85	125			
Calcium	50	mg/L	0.50	94	85	125			
Iron	1.9	mg/L	0.030	94	85	125			
Magnesium	50	mg/L	0.50	98	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Silica	1.9	mg/L	0.10	86	85	125			
Sodium	49	mg/L	0.50	87	85	125			
Sample ID: LFB-ICP25304	Laboratory Fortified Blank				Run: SUB-C87501				08/03/07 00:26
Boron	2.0	mg/L	0.10	98	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Calcium	50	mg/L	0.50	101	85	125			
Magnesium	51	mg/L	0.50	101	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Silica	1.9	mg/L	0.10	94	85	125			
Sodium	48	mg/L	0.50	96	85	125			
Sample ID: LRB	Method Blank				Run: SUB-C87501				08/03/07 00:40
Boron	ND	mg/L	0.004						
Iron	ND	mg/L	0.002						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Silicon as SiO2	ND	mg/L	0.06						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15414
Sample ID: MB-15414	Method Blank				Run: SUB-C87179				07/28/07 06:52
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	0.0004	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	4E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: LCS1-15414	Laboratory Control Sample				Run: SUB-C87179				07/28/07 06:59
Arsenic	0.0194	mg/L	0.0010	97	80	120			
Barium	0.0199	mg/L	0.10	99	80	120			
Cadmium	0.0199	mg/L	0.010	99	80	120			
Chromium	0.0189	mg/L	0.050	95	80	120			
Copper	0.0192	mg/L	0.010	96	80	120			
Lead	0.0197	mg/L	0.050	99	80	120			
Manganese	0.0191	mg/L	0.010	96	80	120			
Molybdenum	0.0206	mg/L	0.10	101	80	120			
Nickel	0.0189	mg/L	0.050	94	80	120			
Selenium	0.0977	mg/L	0.0010	98	80	120			
Silver	0.0169	mg/L	0.010	84	80	120			
Thorium 232	0.0179	mg/L	0.0010	89	80	120			
Uranium	0.0193	mg/L	0.00030	97	80	120			
Vanadium	0.0190	mg/L	0.10	95	80	120			
Zinc	0.0205	mg/L	0.010	98	80	120			
Sample ID: R07070315-002D	Post Digestion Spike				Run: SUB-C87179				07/28/07 09:00
Arsenic	0.543	mg/L	0.0010	108	70	130			
Barium	0.822	mg/L	0.10	108	70	130			
Cadmium	0.536	mg/L	0.010	107	70	130			
Chromium	0.542	mg/L	0.050	108	70	130			
Copper	0.533	mg/L	0.010	105	70	130			
Lead	0.549	mg/L	0.050	109	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15414
Sample ID: R07070315-002D	Post Digestion Spike				Run: SUB-C87179				07/28/07 09:00
Manganese	0.668	mg/L	0.010	109	70	130			
Mercury	0.0504	mg/L	0.0010	101	70	130			
Molybdenum	0.536	mg/L	0.10	105	70	130			
Nickel	0.544	mg/L	0.050	108	70	130			
Selenium	0.629	mg/L	0.0020	125	70	130			
Silver	0.227	mg/L	0.010	113	70	130			
Thorium 232	0.540	mg/L	0.0010	108	70	130			
Uranium	0.546	mg/L	0.00032	109	70	130			
Vanadium	0.552	mg/L	0.10	108	70	130			
Zinc	0.598	mg/L	0.010	116	70	130			
Sample ID: R07070315-002D	Post Digestion Spike Duplicate				Run: SUB-C87179				07/28/07 09:07
Arsenic	0.536	mg/L	0.0010	106	70	130	1.3	20	
Barium	0.823	mg/L	0.10	109	70	130	0.2	20	
Cadmium	0.536	mg/L	0.010	107	70	130	0.1	20	
Chromium	0.528	mg/L	0.050	105	70	130	2.7	20	
Copper	0.528	mg/L	0.010	104	70	130	0.8	20	
Lead	0.540	mg/L	0.050	108	70	130	1.7	20	
Manganese	0.649	mg/L	0.010	105	70	130	3.0	20	
Mercury	0.0498	mg/L	0.0010	100	70	130	1.2	20	
Molybdenum	0.537	mg/L	0.10	106	70	130	0.3	20	
Nickel	0.534	mg/L	0.050	106	70	130	1.8	20	
Selenium	0.624	mg/L	0.0020	124	70	130	0.8	20	
Silver	0.229	mg/L	0.010	115	70	130	1.1	20	
Thorium 232	0.532	mg/L	0.0010	106	70	130	1.5	20	
Uranium	0.535	mg/L	0.00032	107	70	130	2.0	20	
Vanadium	0.539	mg/L	0.10	106	70	130	2.4	20	
Zinc	0.559	mg/L	0.010	108	70	130	6.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_15499	
Sample ID: MB-15499	Method Blank				Run: SUB-C87452			08/02/07 00:46	
Thorium 232	0.0004	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS-15499	Laboratory Control Sample				Run: SUB-C87452			08/02/07 00:53	
Uranium	0.0487	mg/L	0.00030	92	85	115			
Sample ID: R07070382-002F	Post Digestion Spike				Run: SUB-C87452			08/02/07 01:53	
Thorium 232	0.0483	mg/L	0.0010	94	70	130			
Uranium	0.0486	mg/L	0.00030	95	70	130			
Sample ID: R07070382-002F	Post Digestion Spike Duplicate				Run: SUB-C87452			08/02/07 02:00	
Thorium 232	0.0487	mg/L	0.0010	95	70	130	0.9	20	
Uranium	0.0488	mg/L	0.00030	95	70	130	0.4	20	
Method: E300.0								Batch: R30560	
Sample ID: LFB0707200709-3	Laboratory Fortified Blank				Run: DIONEX_070720A			07/20/07 17:57	
Chloride	4.8	mg/L	0.50	97	90	110			
Fluoride	2.0	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	97	90	110			
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707200709-4	Laboratory Fortified Blank				Run: DIONEX_070720A			07/20/07 18:14	
Chloride	4.7	mg/L	0.50	93	90	110			
Fluoride	1.9	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070315-002BMS	Sample Matrix Spike				Run: DIONEX_070720A			07/20/07 22:04	
Chloride	6.4	mg/L	0.50	96	80	120			
Fluoride	2.2	mg/L	0.10	104	80	120			
Nitrogen, Nitrate as N	3.0	mg/L	0.10	96	80	120			
Sulfate	760	mg/L	1.0		80	120			A
Sample ID: R07070315-002BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070720A			07/20/07 22:20	
Chloride	6.1	mg/L	0.50	88	80	120	6.1	10	
Fluoride	2.1	mg/L	0.10	100	80	120	4.1	10	
Nitrogen, Nitrate as N	2.9	mg/L	0.10	92	80	120	3.8	10	
Sulfate	760	mg/L	1.0		80	120	0.7	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R30670
Sample ID: LFB0707252001-3	Laboratory Fortified Blank				Run: DIONEX_070725A				07/25/07 19:52
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707252001-4	Laboratory Fortified Blank				Run: DIONEX_070725A				07/25/07 20:08
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070315-001BMS	Sample Matrix Spike				Run: DIONEX_070725A				07/26/07 00:30
Sulfate	1300	mg/L	14	77	80	120			S
Sample ID: R07070315-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070725A				07/26/07 00:45
Sulfate	1300	mg/L	14	67	80	120	2.3	10	S
Method: E900.0									Batch: C_GrAB-0301
Sample ID: RB-GrAB-0301	Method Blank				Run: SUB-C87669				08/03/07 23:46
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0301	Laboratory Control Sample				Run: SUB-C87669				08/03/07 23:47
Gross Alpha	242	pCi/L	1.0	99	70	130			
Sample ID: C07070938-001BMS	Sample Matrix Spike				Run: SUB-C87669				08/03/07 23:47
Gross Beta	92.9	pCi/L	2.0	88	70	130			
Sample ID: C07070938-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C87669				08/03/07 23:47
Gross Beta	93.9	pCi/L	2.0	89	70	130	1.1	15.4	
Sample ID: C07070971-005CDUP	Sample Duplicate				Run: SUB-C87669				08/05/07 00:09
Gross Alpha	2.39	pCi/L	1.0				21	54.2	
Gross Beta	2.68	pCi/L	2.0				7.3	116.1	
Method: E903.0									Batch: C_RA226-2218
Sample ID: C07071190-004DMS	Sample Matrix Spike				Run: SUB-C87474				08/01/07 16:13
Radium 226	19	pCi/L	0.20	81	70	130			
Sample ID: C07071190-004DMSD	Sample Matrix Spike Duplicate				Run: SUB-C87474				08/01/07 16:13
Radium 226	17	pCi/L	0.20	73	70	130	8.9	31.1	
Sample ID: MB-RA226-2218	Method Blank				Run: SUB-C87474				08/02/07 00:14
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2218	Laboratory Control Sample				Run: SUB-C87474				08/02/07 00:14
Radium 226	13	pCi/L	0.20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey Burdock

Report Mail Address: 3824 Jet Drive Rapid City, SD 57703

Contact Name, Phone, Fax, E-mail: Cory Foreman (605) 381-0024 Cory.Foreman@respec.com

Sampler Name if other than Contact: Erik Krantz

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #: R278 R286

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Comments:

Receipt Temp 15 °C Hand Delivered

Cooler ID(s) _____

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

ANALYSIS REQUESTED

	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)	Uranium + Thorium 238	Full SW Quote 286							SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments	Lab ID
1	DewBurd PSC01	7-19-07	10:45		X	X										Sample Bottle set 2	07070315-001
2	DewBurd PSC02	7-19-07	11:30		X	X										Sample Bottle set 1	-002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by: Cory Foreman Date/Time: 7/20/07 8:55 Shipped by: Received by: Date/Time:

Relinquished by: Date/Time: Shipped by: Received by: Date/Time: 7/20/07 8:55

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 03, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07070382

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/25/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07070382-001	DewBurd BVC01	07/24/07 14:20	07/25/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07070382-002	DewBurd BVC04	07/24/07 15:30	07/25/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070382-001
Client Sample ID: DewBurd BVC01

Report Date: 09/03/07
Collection Date: 07/24/07 14:20
Date Received: 07/25/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	68	CFU/100ml	D	2		2	A9222 D	07/25/07 14:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	134	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Bicarbonate as HCO3	163	mg/L		5		1	A2320 B	08/01/07 09:51/jn
Calcium	68.4	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Chloride	101	mg/L		1.0		20	E300.0	07/25/07 21:40/jmh
Fluoride	0.70	mg/L		0.10		1	E300.0	07/25/07 21:56/jmh
Magnesium	29.5	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	07/25/07 21:56/jmh
Potassium	9.5	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Silica	2.7	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Sodium	213	mg/L		0.5		1	E200.7	07/31/07 18:15/eli-c
Sulfate	463	mg/L	D	14		20	E300.0	07/25/07 21:40/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1480	umhos/cm		5		1	A2510 B	07/31/07 18:05/jmh
pH	8.31	s.u.		0.01		1	A4500-H B	07/31/07 17:54/jmh
Solids, Suspended Sediment SSC @ 105 C	19	mg/L		5		1	D3977	07/26/07 15:31/jn
Solids, Total Dissolved TDS @ 180 C	950	mg/L		5		1	A2540 C	07/31/07 09:21/jn
Solids, Total Suspended TSS @ 105 C	27	mg/L		5		1	A2540 D	07/30/07 13:54/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:40/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/02/07 01:40/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/31/07 18:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/01/07 19:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/01/07 19:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
Iron	0.48	mg/L		0.03		1	E200.7	07/31/07 18:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Manganese	0.15	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070382-001
Client Sample ID: DewBurd BVC01

Report Date: 09/03/07
Collection Date: 07/24/07 14:20
Date Received: 07/25/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/01/07 19:36/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	08/01/07 19:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/01/07 19:36/eli-c
Uranium	0.0040	mg/L		0.0003		1	E200.8	08/01/07 19:36/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/01/07 19:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/01/07 19:36/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.9	pCi/L		1.0		1	E900.0	08/10/07 21:23/eli-c
Gross Alpha precision (±)	0.9	pCi/L				1	E900.0	08/10/07 21:23/eli-c
Gross Beta	10.3	pCi/L		2.0		1	E900.0	08/10/07 21:23/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	08/10/07 21:23/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/06/07 14:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.715	%				1	A1030 E	08/15/07 14:44/ADM
Anions	15.2	meq/L				1	A1030 E	08/15/07 14:44/ADM
Cations	15.4	meq/L				1	A1030 E	08/15/07 14:44/ADM
Solids, Total Dissolved Calculated	967	mg/L				1	A1030 E	08/15/07 14:44/ADM
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	08/15/07 14:44/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070382-002
Client Sample ID: DewBurd BVC04

Report Date: 09/03/07
Collection Date: 07/24/07 15:30
Date Received: 07/25/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	110	CFU/100ml	D	2		2	A9222 D	07/25/07 14:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	08/01/07 09:55/jn
Calcium	146	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Chloride	251	mg/L		1.0		20	E300.0	07/25/07 22:11/jmh
Fluoride	0.45	mg/L		0.10		1	E300.0	07/25/07 22:26/jmh
Magnesium	47.7	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.10		1	E300.0	07/25/07 22:26/jmh
Potassium	10	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Silica	7.9	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Sodium	404	mg/L		0.5		1	E200.7	07/31/07 18:22/eli-c
Sulfate	859	mg/L	D	14		20	E300.0	07/25/07 22:11/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2660	umhos/cm		5		1	A2510 B	07/31/07 18:06/jmh
pH	7.72	s.u.		0.01		1	A4500-H B	07/31/07 17:55/jmh
Solids, Suspended Sediment SSC @ 105 C	111	mg/L		5		1	D3977	07/26/07 15:32/jn
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	07/31/07 09:21/jn
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	07/30/07 13:55/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	08/02/07 01:47/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	08/02/07 01:47/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/01/07 19:43/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	07/31/07 18:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/01/07 19:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/01/07 19:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/01/07 19:43/eli-c
Iron	1.34	mg/L		0.03		1	E200.7	07/31/07 18:22/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c
Manganese	0.51	mg/L		0.01		1	E200.8	08/01/07 19:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07070382-002
Client Sample ID: DewBurd BVC04

Report Date: 09/03/07
Collection Date: 07/24/07 15:30
Date Received: 07/25/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/01/07 19:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/01/07 19:43/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	08/01/07 19:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/01/07 19:43/eli-c
Uranium	0.0073	mg/L		0.0003		1	E200.8	08/01/07 19:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/01/07 19:43/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	08/01/07 19:43/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	11.4	pCi/L		1.0		1	E900.0	08/11/07 09:40/eli-c
Gross Alpha precision (±)	2.1	pCi/L				1	E900.0	08/11/07 09:40/eli-c
Gross Beta	13.9	pCi/L		2.0		1	E900.0	08/11/07 09:40/eli-c
Gross Beta precision (±)	5.1	pCi/L				1	E900.0	08/11/07 09:40/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/06/07 15:52/eli-c
DATA QUALITY								
A/C Balance (± 5)	4.79	%				1	A1030 E	08/15/07 14:45/ADM
Anions	26.6	meq/L				1	A1030 E	08/15/07 14:45/ADM
Cations	29.3	meq/L				1	A1030 E	08/15/07 14:45/ADM
Solids, Total Dissolved Calculated	1770	mg/L				1	A1030 E	08/15/07 14:45/ADM
TDS Balance (0.80 - 1.20)	1.03	dec. %				1	A1030 E	08/15/07 14:45/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 070801A-ALK-SEL-W	
Sample ID: MBLK1_070801A	Method Blank				Run: PH_COND1-R_070801A			08/01/07 09:34	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_070801A	Laboratory Control Sample				Run: PH_COND1-R_070801A			08/01/07 09:40	
Alkalinity, Total as CaCO3	992	mg/L	5.0	99	90	110			
Method: A2510 B								Batch: 070731_1_COND-PROBE-W	
Sample ID: LCS1-1_070731	Laboratory Control Sample				Run: PH_COND2-R_070731A			07/31/07 18:01	
Conductivity @ 25 C	152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_070731	Laboratory Control Sample				Run: PH_COND2-R_070731A			07/31/07 18:01	
Conductivity @ 25 C	4990	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_070731	Laboratory Control Sample				Run: PH_COND2-R_070731A			07/31/07 18:02	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_070731	Method Blank				Run: PH_COND2-R_070731A			07/31/07 18:03	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07070382-002BDUP	Sample Duplicate				Run: PH_COND2-R_070731A			07/31/07 18:07	
Conductivity @ 25 C	2650	umhos/cm	5.0				0.4	10	
Method: A2540 C								Batch: 070731A-SLDS-TDS-W	
Sample ID: MBLK1_070731A	Method Blank				Run: BAL-4-R_070731A			07/31/07 09:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_070731A	Laboratory Control Sample				Run: BAL-4-R_070731A			07/31/07 09:17	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	102	90	110			
Sample ID: R07070426-001BMS	Sample Matrix Spike				Run: BAL-4-R_070731A			07/31/07 09:24	
Solids, Total Dissolved TDS @ 180 C	570	mg/L	5.0	102	80	120			
Method: A2540 D								Batch: 070726A-SLDS-TSS-W	
Sample ID: MBLK1_070726A	Method Blank				Run: BAL-4-R_070730A			07/26/07 16:05	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070726A	Laboratory Control Sample				Run: BAL-4-R_070730A			07/26/07 16:08	
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 070731_1_PH-W	
Sample ID: LCS_pH-1_070731	Laboratory Control Sample				Run: PH_COND2-R_070731A			07/31/07 17:52	
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07070382-002BDUP	Sample Duplicate				Run: PH_COND2-R_070731A			07/31/07 17:56	
pH	7.69	s.u.	0.010				0.4	1.25	
Method: A9222 D								Batch: 070725-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070725A			07/25/07 14:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Method: D3977								Batch: 070725A-SLDS-SSC-W	
Sample ID: MBLK1_070725A	Method Blank				Run: BAL-4-R_070725B			07/26/07 15:29	
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_15470
Sample ID: MB-15470	Method Blank				Run: SUB-C87373				07/31/07 17:58
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	ND	mg/L	0.08						
Silica	0.04	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Silicon as SiO2	0.04	mg/L	0.04						
Sample ID: LCS-15470	Laboratory Control Sample				Run: SUB-C87373				07/31/07 18:01
Boron	0.480	mg/L	0.10	96	85	115			
Iron	0.486	mg/L	0.030	97	85	115			
Calcium	49.7	mg/L	0.50	99	85	115			
Magnesium	49.8	mg/L	0.50	100	85	115			
Potassium	47.6	mg/L	0.50	95	85	115			
Sodium	48.9	mg/L	0.50	97	85	115			
Sample ID: C07071301-001BMS	Sample Matrix Spike				Run: SUB-C87373				07/31/07 19:15
Boron	0.537	mg/L	0.10	99	70	130			
Iron	3.09	mg/L	0.030		70	130			A
Calcium	96.2	mg/L	0.50	95	70	130			
Magnesium	69.0	mg/L	0.50	95	70	130			
Potassium	49.9	mg/L	0.50	96	70	130			
Silica	22.9	mg/L	0.10		70	130			A
Sodium	55.8	mg/L	0.50	96	70	130			
Sample ID: C07071301-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C87373				07/31/07 19:18
Boron	0.550	mg/L	0.10	102	70	130	2.4	20	
Iron	3.16	mg/L	0.030		70	130	2.4	20	A
Calcium	97.9	mg/L	0.50	98	70	130	1.8	20	
Magnesium	70.2	mg/L	0.50	97	70	130	1.7	20	
Potassium	50.8	mg/L	0.50	98	70	130	1.7	20	
Silica	23.5	mg/L	0.10		70	130	2.6	20	A
Sodium	56.7	mg/L	0.50	98	70	130	1.6	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15470
Sample ID: MB-15470	Method Blank				Run: SUB-C87452				08/01/07 18:42
Arsenic	ND	mg/L	5E-05						
Barium	0.0002	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	0.0002	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-15470	Laboratory Control Sample				Run: SUB-C87452				08/01/07 18:49
Arsenic	0.021	mg/L	0.0010	104	80	120			
Barium	0.021	mg/L	0.10	105	80	120			
Cadmium	0.021	mg/L	0.010	103	80	120			
Chromium	0.020	mg/L	0.050	98	80	120			
Copper	0.020	mg/L	0.010	98	80	120			
Lead	0.021	mg/L	0.050	103	80	120			
Manganese	0.020	mg/L	0.010	102	80	120			
Mercury	0.00067	mg/L	0.0010	33	80	120			S
Molybdenum	0.021	mg/L	0.10	104	80	120			
Nickel	0.019	mg/L	0.050	96	80	120			
Selenium	0.10	mg/L	0.0010	103	80	120			
Silver	0.016	mg/L	0.010	81	80	120			
Thorium 232	0.019	mg/L	0.0010	97	80	120			
Uranium	0.020	mg/L	0.00030	102	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.020	mg/L	0.010	97	80	120			
Sample ID: LCS-15470	Laboratory Control Sample				Run: SUB-C87452				08/01/07 18:56
Arsenic	0.49	mg/L	0.0010	98	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.49	mg/L	0.010	99	85	115			
Chromium	0.48	mg/L	0.050	96	85	115			
Copper	0.46	mg/L	0.010	93	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15470
Sample ID: LCS-15470	Laboratory Control Sample				Run: SUB-C87452				08/01/07 18:56
Lead	0.50	mg/L	0.050	99	85	115			
Manganese	0.49	mg/L	0.010	98	85	115			
Molybdenum	0.50	mg/L	0.10	100	85	115			
Nickel	0.47	mg/L	0.050	93	85	115			
Selenium	0.50	mg/L	0.0020	101	85	115			
Silver	0.20	mg/L	0.010	101	85	115			
Uranium	0.49	mg/L	0.00032	98	85	115			
Vanadium	0.48	mg/L	0.10	97	85	115			
Zinc	0.48	mg/L	0.010	96	85	115			
Sample ID: C07071301-001B MS4	Post Digestion Spike				Run: SUB-C87452				08/01/07 20:10
Arsenic	0.070	mg/L	0.0010	100	70	130			
Barium	0.11	mg/L	0.10	99	70	130			
Cadmium	0.069	mg/L	0.010	99	70	130			
Chromium	0.065	mg/L	0.050	90	70	130			
Copper	0.066	mg/L	0.010	92	70	130			
Lead	0.070	mg/L	0.050	100	70	130			
Manganese	0.14	mg/L	0.010	97	70	130			
Mercury	0.0067	mg/L	0.0010	96	70	130			
Molybdenum	0.074	mg/L	0.10	104	70	130			
Nickel	0.065	mg/L	0.050	91	70	130			
Selenium	0.15	mg/L	0.0010	98	70	130			
Silver	0.032	mg/L	0.010	80	70	130			
Thorium 232	0.071	mg/L	0.0010	101	70	130			
Uranium	0.073	mg/L	0.00030	101	70	130			
Vanadium	0.067	mg/L	0.10	95	70	130			
Zinc	3.5	mg/L	0.010		70	130			A
Sample ID: C07071301-001B MSD4	Post Digestion Spike Duplicate				Run: SUB-C87452				08/01/07 20:44
Arsenic	0.072	mg/L	0.0010	101	70	130	1.5	20	
Barium	0.11	mg/L	0.10	100	70	130	0.7	20	
Cadmium	0.070	mg/L	0.010	100	70	130	1.3	20	
Chromium	0.066	mg/L	0.050	90	70	130	0.8	20	
Copper	0.067	mg/L	0.010	94	70	130	2.0	20	
Lead	0.072	mg/L	0.050	103	70	130	2.6	20	
Manganese	0.14	mg/L	0.010	93	70	130	2.0	20	
Mercury	0.0069	mg/L	0.0010	99	70	130	2.9	20	
Molybdenum	0.074	mg/L	0.10	104	70	130	0.0	20	
Nickel	0.066	mg/L	0.050	92	70	130	1.1	20	
Selenium	0.15	mg/L	0.0010	102	70	130	4.3	20	
Silver	0.034	mg/L	0.010	85	70	130	6.6	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_15470	
Sample ID: C07071301-001B MSD4	Post Digestion Spike Duplicate				Run: SUB-C87452			08/01/07 20:44	
Thorium 232	0.072	mg/L	0.0010	103	70	130	2.5	20	
Uranium	0.074	mg/L	0.00030	103	70	130	2.5	20	
Vanadium	0.068	mg/L	0.10	95	70	130	0.0	20	
Zinc	3.4	mg/L	0.010		70	130	3.0	20	A
Method: E200.8								Batch: C_15499	
Sample ID: MB-15499	Method Blank				Run: SUB-C87452			08/02/07 00:46	
Thorium 232	0.0004	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS-15499	Laboratory Control Sample				Run: SUB-C87452			08/02/07 00:53	
Uranium	0.0487	mg/L	0.00030	92	85	115			
Sample ID: R07070382-002F	Post Digestion Spike				Run: SUB-C87452			08/02/07 01:53	
Thorium 232	0.0483	mg/L	0.0010	94	70	130			
Uranium	0.0486	mg/L	0.00030	95	70	130			
Sample ID: R07070382-002F	Post Digestion Spike Duplicate				Run: SUB-C87452			08/02/07 02:00	
Thorium 232	0.0487	mg/L	0.0010	95	70	130	0.9	20	
Uranium	0.0488	mg/L	0.00030	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R30670
Sample ID: LFB0707252001-3	Laboratory Fortified Blank				Run: DIONEX_070725A				07/25/07 19:52
Chloride	4.8	mg/L	0.50	96	90	110			
Fluoride	2.0	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	96	90	110			
Sulfate	15	mg/L	1.0	99	90	110			
Sample ID: LFB0707252001-4	Laboratory Fortified Blank				Run: DIONEX_070725A				07/25/07 20:08
Chloride	4.7	mg/L	0.50	94	90	110			
Fluoride	1.8	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07070342-001AMS	Sample Matrix Spike				Run: DIONEX_070725A				07/25/07 20:39
Chloride	9.8	mg/L	0.50	95	80	120			
Fluoride	2.5	mg/L	0.10	101	80	120			
Nitrogen, Nitrate as N	2.6	mg/L	0.10	93	80	120			
Sulfate	34	mg/L	1.0	82	80	120			
Sample ID: R07070342-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070725A				07/25/07 20:54
Chloride	9.5	mg/L	0.50	88	80	120	3.4	10	
Fluoride	2.4	mg/L	0.10	99	80	120	1.6	10	
Nitrogen, Nitrate as N	2.6	mg/L	0.10	91	80	120	1.9	10	
Sulfate	33	mg/L	1.0	80	80	120	1.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/03/07
Work Order: R07070382

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0305
Sample ID: RB-GrAB-0305	Method Blank				Run: SUB-C88002				08/10/07 02:27
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0305	Laboratory Control Sample				Run: SUB-C88002				08/10/07 02:27
Gross Alpha	240	pCi/L	1.0	98	70	130			
Sample ID: Cs137-GrAB-0305	Laboratory Control Sample				Run: SUB-C88002				08/10/07 02:27
Gross Beta	97.1	pCi/L	2.0	101	70	130			
Sample ID: C07071137-001AMS	Sample Matrix Spike				Run: SUB-C88002				08/10/07 02:27
Gross Alpha	474	pCi/L	1.0	76	70	130			
Sample ID: C07071137-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C88002				08/10/07 02:26
Gross Alpha	489	pCi/L	1.0	78	70	130	3.0	13	
Sample ID: C07071137-001AMS	Sample Matrix Spike				Run: SUB-C88002				08/10/07 02:26
Gross Beta	224	pCi/L	2.0	90	70	130			
Sample ID: C07071137-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C88002				08/10/07 02:26
Gross Beta	222	pCi/L	2.0	90	70	130	0.5	15.9	
Sample ID: R07070382-001E	Sample Duplicate				Run: SUB-C88002				08/10/07 21:23
Gross Alpha	6.92	pCi/L	1.0				16	38	
Gross Alpha precision (±)	0.910	pCi/L							
Gross Beta	9.92	pCi/L	2.0				4.2	54.2	
Gross Beta precision (±)	2.24	pCi/L							
Method: E903.0									Batch: C_RA226-2225
Sample ID: C07071301-002AMS	Sample Matrix Spike				Run: SUB-C87778				08/06/07 18:54
Radium 226	15.7	pCi/L	0.20	71	70	130			
Sample ID: C07071301-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C87778				08/06/07 19:54
Radium 226	18.8	pCi/L	0.20	86	70	130	18	31.4	
Sample ID: MB-RA226-2225	Method Blank				Run: SUB-C87778				08/06/07 22:56
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2225	Laboratory Control Sample				Run: SUB-C87778				08/07/07 00:57
Radium 226	11	pCi/L	0.20	84	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey Burdock

Report Mail Address: 3824 Jet Dr. Rapid City, SD 57703

Contact Name, Phone, Fax, E-mail: Cory Foreman 605.381.9024 cory.foreman@respec.com

Sampler Name if other than Contact:

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #: R278 R286

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 12.8 °C on ice

Cooler ID(s) _____

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

ANALYSIS REQUESTED

	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)	Uranium+Thorium 238	Full SW Quote 286							SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	DewBurd BVC01	7/24/07	14:20		X	X										Sample Bottle Set 2	0707 0382-001
2	DewBurd BVC~~02~~04 Sat	7/24/07	15:30		X	X										Sample Bottle Set 2	002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by: Cory Foreman	Date/Time: 7/25/07 7:15	Shipped by:	Received by: [signature] Date/Time: 7/25/07 7:15
Relinquished by: [signature]	Date/Time: 7/25/07 12:25	Shipped by:	Received by: [signature] Date/Time: 7-25-07 1225

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 11, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07080019

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 8/1/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07080019-001	DewBurd CHR01	07/31/07 14:35	08/01/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07080019-002	DewBurd CHR05	07/31/07 15:10	08/01/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080019-001
Client Sample ID: DewBurd CHR01

Report Date: 09/11/07
Collection Date: 07/31/07 14:35
Date Received: 08/01/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	8	CFU/100ml	D	2		2	A9222 D	08/01/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	310	mg/L		5		1	A2320 B	08/03/07 16:53/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/03/07 16:53/jn
Bicarbonate as HCO3	378	mg/L		5		1	A2320 B	08/03/07 16:53/jn
Calcium	366	mg/L		0.5		10	E200.7	08/19/07 21:30/eli-c
Chloride	125	mg/L		1		20	E300.0	08/02/07 20:34/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	08/02/07 21:26/jmh
Magnesium	188	mg/L		0.5		10	E200.7	08/19/07 21:30/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/02/07 21:26/jmh
Potassium	19.0	mg/L		0.5		1	E200.7	08/14/07 19:10/eli-c
Silica	7.2	mg/L		0.5		1	E200.7	08/14/07 19:10/eli-c
Sodium	1140	mg/L		0.5		10	E200.7	08/19/07 21:30/eli-c
Sulfate	3550	mg/L	D	36		50	E300.0	08/06/07 10:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6580	umhos/cm		5		1	A2510 B	08/06/07 14:16/jmh
pH	7.83	s.u.		0.01		1	A4500-H B	08/06/07 14:02/jmh
Solids, Suspended Sediment SSC @ 105 C	53	mg/L		5		1	D3977	08/07/07 11:03/jn
Solids, Total Dissolved TDS @ 180 C	5900	mg/L		5		1	A2540 C	08/07/07 09:17/jn
Solids, Total Suspended TSS @ 105 C	54	mg/L		5		1	A2540 D	08/06/07 13:45/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	08/16/07 17:18/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	08/16/07 17:18/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	08/10/07 22:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/10/07 22:02/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	08/14/07 19:10/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/10/07 22:02/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/10/07 22:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/10/07 22:02/eli-c
Iron	0.15	mg/L		0.03		1	E200.7	08/14/07 19:10/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/10/07 22:02/eli-c
Manganese	1.13	mg/L		0.01		1	E200.8	08/10/07 22:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/10/07 22:02/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080019-001
Client Sample ID: DewBurd CHR01

Report Date: 09/11/07
Collection Date: 07/31/07 14:35
Date Received: 08/01/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/10/07 22:02/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/10/07 22:02/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	08/10/07 22:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/10/07 22:02/eli-c
Uranium	0.0223	mg/L		0.0003		1	E200.8	08/10/07 22:02/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/10/07 22:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/10/07 22:02/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.9	pCi/L		1.0		1	E900.0	08/17/07 00:38/eli-c
Gross Alpha precision (±)	4.6	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Gross Beta	21.9	pCi/L		2.0		1	E900.0	08/17/07 00:38/eli-c
Gross Beta precision (±)	13.3	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/14/07 10:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.0317	%				1	A1030 E	09/10/07 14:02/ADM
Anions	83.7	meq/L				1	A1030 E	09/10/07 14:02/ADM
Cations	83.8	meq/L				1	A1030 E	09/10/07 14:02/ADM
Solids, Total Dissolved Calculated	5590	mg/L				1	A1030 E	09/10/07 14:02/ADM
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	09/10/07 14:02/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080019-002
Client Sample ID: DewBurd CHR05

Report Date: 09/11/07
Collection Date: 07/31/07 15:10
Date Received: 08/01/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	180	CFU/100ml	D	2		2	A9222 D	08/01/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	200	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Bicarbonate as HCO3	244	mg/L		5		1	A2320 B	08/03/07 16:55/jn
Calcium	311	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Chloride	386	mg/L	D	2.0		50	E300.0	08/06/07 10:33/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	08/02/07 22:01/jmh
Magnesium	168	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	08/02/07 22:01/jmh
Potassium	13.3	mg/L		0.5		1	E200.7	08/14/07 19:14/eli-c
Silica	7.4	mg/L		0.5		1	E200.7	08/14/07 19:14/eli-c
Sodium	678	mg/L		0.5		10	E200.7	08/19/07 21:37/eli-c
Sulfate	2030	mg/L	D	36		50	E300.0	08/06/07 10:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4980	umhos/cm		5		1	A2510 B	08/06/07 14:18/jmh
pH	7.98	s.u.		0.01		1	A4500-H B	08/06/07 14:05/jmh
Solids, Suspended Sediment SSC @ 105 C	7	mg/L		5		1	D3977	08/07/07 11:04/jn
Solids, Total Dissolved TDS @ 180 C	4100	mg/L		5		1	A2540 C	08/07/07 09:17/jn
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	08/06/07 13:46/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	08/16/07 18:06/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	08/16/07 18:06/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/10/07 22:36/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	08/14/07 19:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/10/07 22:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	08/10/07 22:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/10/07 22:36/eli-c
Iron	0.09	mg/L		0.03		1	E200.7	08/14/07 19:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	08/10/07 22:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080019-002
Client Sample ID: DewBurd CHR05

Report Date: 09/11/07
Collection Date: 07/31/07 15:10
Date Received: 08/01/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	08/10/07 22:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	08/10/07 22:36/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	08/10/07 22:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/10/07 22:36/eli-c
Uranium	0.0110	mg/L		0.0003		1	E200.8	08/10/07 22:36/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	08/10/07 22:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/10/07 22:36/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.7	pCi/L		1.0		1	E900.0	08/17/07 00:38/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Gross Beta	18.7	pCi/L		2.0		1	E900.0	08/17/07 00:38/eli-c
Gross Beta precision (±)	13.2	pCi/L				1	E900.0	08/17/07 00:38/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	08/14/07 10:25/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.77	%				1	A1030 E	09/10/07 14:02/ADM
Anions	57.1	meq/L				1	A1030 E	09/10/07 14:02/ADM
Cations	59.2	meq/L				1	A1030 E	09/10/07 14:02/ADM
Solids, Total Dissolved Calculated	3710	mg/L				1	A1030 E	09/10/07 14:02/ADM
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	09/10/07 14:02/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 070803A-ALK-SEL-W	
Sample ID: MBLK1_070803A	Method Blank				Run: PH_COND1-R_070803A				08/03/07 16:40
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_070803A	Laboratory Control Sample				Run: PH_COND1-R_070803A				08/03/07 16:42
Alkalinity, Total as CaCO3	988	mg/L	5.0	99	90	110			
Method: A2510 B								Batch: 070806_1_COND-PROBE-W	
Sample ID: LCS1-1_070806	Laboratory Control Sample				Run: PH_COND2-R_070806A				08/06/07 14:12
Conductivity @ 25 C	152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_070806	Laboratory Control Sample				Run: PH_COND2-R_070806A				08/06/07 14:13
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_070806	Laboratory Control Sample				Run: PH_COND2-R_070806A				08/06/07 14:13
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_070806	Method Blank				Run: PH_COND2-R_070806A				08/06/07 14:14
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07080019-001BDUP	Sample Duplicate				Run: PH_COND2-R_070806A				08/06/07 14:17
Conductivity @ 25 C	6600	umhos/cm	5.0				0.3	10	
Method: A2540 C								Batch: 070806A-SLDS-TDS-W	
Sample ID: MBLK1_070806A	Method Blank				Run: BAL-4-R_070806B				08/07/07 09:10
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_070806A	Laboratory Control Sample				Run: BAL-4-R_070806B				08/07/07 09:11
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	107	90	110			
Sample ID: R07080021-003AMS	Sample Matrix Spike				Run: BAL-4-R_070806B				08/07/07 09:19
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	99	80	120			
Method: A2540 D								Batch: 070806A-SLDS-TSS-W	
Sample ID: MBLK1_070806A	Method Blank				Run: BAL-4-R_070806A				08/06/07 11:35
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070806A	Laboratory Control Sample				Run: BAL-4-R_070806A				08/06/07 11:36
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	92	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 070806_1_PH-W	
Sample ID: LCS_pH-1_070806	Laboratory Control Sample				Run: PH_COND2-R_070806A			08/06/07 14:00	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07080019-001BDUP	Sample Duplicate				Run: PH_COND2-R_070806A			08/06/07 14:02	
pH	7.82	s.u.	0.010				0.1	1.25	
Method: A9222 D								Batch: 070801-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070801A			08/01/07 17:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07080002-004B	Sample Duplicate				Run: MEMFILT_070801A			08/01/07 17:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	
Method: D3977								Batch: 070802A-SLDS-SSC-W	
Sample ID: MBLK1_070802A	Method Blank				Run: BAL-4-R_070802A			08/02/07 14:53	
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_15569
Sample ID: MB-15569	Method Blank				Run: SUB-C88181				08/14/07 18:54
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	0.2	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Silicon as SiO2	ND	mg/L	0.04						
Sample ID: R07080019-002D	Sample Matrix Spike				Run: SUB-C88181				08/14/07 19:17
Boron	0.786	mg/L	0.10	83	70	130			
Iron	0.521	mg/L	0.030	86	70	130			
Calcium	327	mg/L	0.50		70	130			A
Potassium	140	mg/L	0.50	91	70	130			
Silica	7.31	mg/L	0.10		70	130			A
Sodium	699	mg/L	0.50		70	130			A
Sample ID: R07080019-002D	Sample Matrix Spike Duplicate				Run: SUB-C88181				08/14/07 19:21
Boron	0.788	mg/L	0.10	83	70	130	0.3	20	
Iron	0.512	mg/L	0.030	84	70	130	1.7	20	
Calcium	329	mg/L	0.50		70	130	0.5	20	A
Potassium	139	mg/L	0.50	90	70	130	0.7	20	
Silica	7.35	mg/L	0.10		70	130	0.5	20	A
Sodium	697	mg/L	0.50		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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15569
Sample ID: MB-15569	Method Blank				Run: SUB-C87963				08/10/07 20:08
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	0.0001	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.0009	mg/L	0.0003						
Sample ID: LCS1-15569	Laboratory Control Sample				Run: SUB-C87963				08/10/07 20:15
Arsenic	0.0201	mg/L	0.0010	101	80	120			
Barium	0.0212	mg/L	0.10	106	80	120			
Cadmium	0.0208	mg/L	0.010	104	80	120			
Chromium	0.0201	mg/L	0.050	100	80	120			
Copper	0.0204	mg/L	0.010	102	80	120			
Lead	0.0205	mg/L	0.050	103	80	120			
Manganese	0.0202	mg/L	0.010	101	80	120			
Molybdenum	0.0211	mg/L	0.10	106	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Selenium	0.103	mg/L	0.0010	103	80	120			
Silver	0.0189	mg/L	0.010	94	80	120			
Thorium 232	0.0192	mg/L	0.0010	96	80	120			
Uranium	0.0201	mg/L	0.00030	101	80	120			
Vanadium	0.0199	mg/L	0.10	100	80	120			
Zinc	0.0219	mg/L	0.010	105	80	120			
Sample ID: LCS-15569	Laboratory Control Sample				Run: SUB-C87963				08/10/07 20:21
Arsenic	0.480	mg/L	0.0010	96	85	115			
Barium	0.469	mg/L	0.10	94	85	115			
Cadmium	0.470	mg/L	0.010	94	85	115			
Chromium	0.464	mg/L	0.050	93	85	115			
Copper	0.460	mg/L	0.010	92	85	115			
Lead	0.471	mg/L	0.050	94	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15569
Sample ID: LCS-15569	Laboratory Control Sample				Run: SUB-C87963				08/10/07 20:21
Manganese	0.467	mg/L	0.010	93	85	115			
Molybdenum	0.478	mg/L	0.10	96	85	115			
Nickel	0.469	mg/L	0.050	94	85	115			
Selenium	0.488	mg/L	0.0020	98	85	115			
Silver	0.201	mg/L	0.010	101	85	115			
Uranium	0.464	mg/L	0.00032	93	85	115			
Vanadium	0.466	mg/L	0.10	93	85	115			
Zinc	0.487	mg/L	0.010	97	85	115			
Sample ID: C07080271-001AMS5	Pre-Digestion Spike				Run: SUB-C87963				08/10/07 22:50
Arsenic	0.0203	mg/L	0.0010	97	70	130			
Barium	0.119	mg/L	0.10		70	130			A
Cadmium	0.0194	mg/L	0.010	96	70	130			
Chromium	0.0202	mg/L	0.050	95	70	130			
Copper	0.130	mg/L	0.010		70	130			A
Lead	0.0204	mg/L	0.050	98	70	130			
Manganese	0.0518	mg/L	0.010	90	70	130			
Mercury	0.00507	mg/L	0.0010		70	130			A
Molybdenum	0.0376	mg/L	0.10	99	70	130			
Nickel	0.0217	mg/L	0.050	94	70	130			
Selenium	0.0953	mg/L	0.0010	95	70	130			
Uranium	0.0204	mg/L	0.00030	97	70	130			
Vanadium	0.0203	mg/L	0.10	94	70	130			
Zinc	0.0456	mg/L	0.010	96	70	130			
Sample ID: C07080271-001AMSD5	Pre-Digestion Spike Duplicate				Run: SUB-C87963				08/10/07 22:56
Arsenic	0.0214	mg/L	0.0010	103	70	130	5.2	20	
Barium	0.124	mg/L	0.10		70	130	4.6	20	A
Cadmium	0.0204	mg/L	0.010	101	70	130	5.2	20	
Chromium	0.0210	mg/L	0.050	99	70	130	0.0	20	
Copper	0.137	mg/L	0.010		70	130	5.7	20	A
Lead	0.0215	mg/L	0.050	103	70	130	0.0	20	
Manganese	0.0542	mg/L	0.010	102	70	130	4.4	20	
Mercury	0.00546	mg/L	0.0010		70	130	7.5	20	A
Molybdenum	0.0398	mg/L	0.10	110	70	130	0.0	20	
Nickel	0.0226	mg/L	0.050	98	70	130	0.0	20	
Selenium	0.0994	mg/L	0.0010	99	70	130	4.2	20	
Uranium	0.0216	mg/L	0.00030	103	70	130	5.8	20	
Vanadium	0.0211	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0479	mg/L	0.010	108	70	130	5.0	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15600
Sample ID: MB-15600	Method Blank				Run: SUB-C88321				08/16/07 16:51
Thorium 232	0.001	mg/L	1E-06						
Uranium	5E-05	mg/L							
Sample ID: LCS1-15600	Laboratory Control Sample				Run: SUB-C88321				08/16/07 16:58
Thorium 232	0.0203	mg/L	0.0010	96	80	120			
Uranium	0.0211	mg/L	0.00030	105	80	120			
Sample ID: LCS-15600	Laboratory Control Sample				Run: SUB-C88321				08/16/07 17:12
Thorium 232	0.535	mg/L	0.0010	107	80	120			
Uranium	0.531	mg/L	0.00030	106	80	120			
Sample ID: R07080019-001F	Post Digestion Spike				Run: SUB-C88321				08/16/07 17:25
Thorium 232	0.0132	mg/L	0.0010	101	70	130			
Uranium	0.0131	mg/L	0.00030	103	70	130			
Sample ID: R07080019-001F	Post Digestion Spike Duplicate				Run: SUB-C88321				08/16/07 17:32
Thorium 232	0.0133	mg/L	0.0010	101	70	130	0.7	20	
Uranium	0.0132	mg/L	0.00030	104	70	130	0.4	20	
Method: E300.0									Batch: R30784
Sample ID: LFB0708023337-3	Laboratory Fortified Blank				Run: DIONEX_070802A				08/02/07 19:59
Chloride	4.7	mg/L	0.50	95	90	110			
Fluoride	1.9	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.4	mg/L	0.10	96	90	110			
Sample ID: LFB0708023337-4	Laboratory Fortified Blank				Run: DIONEX_070802A				08/02/07 20:16
Chloride	4.7	mg/L	0.50	94	90	110			
Fluoride	1.9	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.3	mg/L	0.10	93	90	110			
Sample ID: R07080019-001BMS	Sample Matrix Spike				Run: DIONEX_070802A				08/02/07 20:51
Chloride	210	mg/L	0.80	83	80	120			
Fluoride	39	mg/L	1.3	90	80	120			
Nitrogen, Nitrate as N	48	mg/L	0.34	96	80	120			
Sample ID: R07080019-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070802A				08/02/07 21:09
Chloride	210	mg/L	0.80	83	80	120	0.2	10	
Fluoride	38	mg/L	1.3	89	80	120	1.3	10	
Nitrogen, Nitrate as N	47	mg/L	0.34	94	80	120	2.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R30805	
Sample ID: LFB0708035817-3	Laboratory Fortified Blank				Run: DIONEX_070803A			08/05/07 17:32	
Chloride	4.7	mg/L	0.50	93	90	110			
Sulfate	14	mg/L	1.0	96	90	110			
Sample ID: R07080044-001BMS	Sample Matrix Spike				Run: DIONEX_070803A			08/06/07 08:48	
Chloride	8.7	mg/L	0.50	79	80	120			S
Sulfate	45	mg/L	1.0	72	80	120			S
Sample ID: R07080044-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070803A			08/06/07 09:05	
Chloride	8.7	mg/L	0.50	80	80	120	0.3	10	
Sulfate	45	mg/L	1.0	73	80	120	0.2	10	S
Method: E900.0								Batch: C_GrAB-0309	
Sample ID: RB-GrAB-0309	Method Blank				Run: SUB-C88332			08/16/07 12:20	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0309	Laboratory Control Sample				Run: SUB-C88332			08/16/07 12:20	
Gross Alpha	247	pCi/L	1.0	101	70	130			
Sample ID: C07080186-001BMS	Sample Matrix Spike				Run: SUB-C88332			08/16/07 12:20	
Gross Alpha	196	pCi/L	1.0	79	70	130			
Sample ID: C07080186-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C88332			08/16/07 12:20	
Gross Alpha	191	pCi/L	1.0	77	70	130	2.4	13.2	
Sample ID: C07080503-001ADUP	Sample Duplicate				Run: SUB-C88332			08/17/07 00:38	
Gross Alpha	5.58	pCi/L	1.0				26	37.8	
Gross Beta	3.71	pCi/L	2.0				2.3	84	
Sample ID: Cs137-GrAB-0309	Laboratory Control Sample				Run: SUB-C88332			08/16/07 12:20	
Gross Beta	89.4	pCi/L	2.0	93	70	130			
Sample ID: C07080186-001BMS	Sample Matrix Spike				Run: SUB-C88332			08/16/07 12:20	
Gross Beta	94.7	pCi/L	2.0	95	70	130			
Sample ID: C07080186-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C88332			08/16/07 12:20	
Gross Beta	97.7	pCi/L	2.0	98	70	130	3.1	15.2	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080019

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2248
Sample ID: MB-RA226-2248	Method Blank				Run: SUB-C88123				08/14/07 10:25
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2248	Laboratory Control Sample				Run: SUB-C88123				08/14/07 10:25
Radium 226	14	pCi/L	0.20	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Sample R07080019-001B not reported to LIMS

SAMPLE ID: **R07080019-001B** 8/30/2007

CATIONS	mg/L	meq/L	ANIONS	mg/L	meq/L
Acidity(as CaCO3)			Cl	**125**	3.53
Ca	**366**	18.24	SO4	**3550**	74.00
Mg	**188**	15.48	T. Alkalinity	**310**	6.19
K	**19**	0.49	HCO3	378	
Na	**1140**	49.50	CO3	<1	
Al	**<1**	0.01			
Fe	**<1**	0.01			
Mn	**1**	0.08			
Hardness (as CaCO3)	1690		OH		
Hardness, grains/gal.	98.7		NO3	**<0.1**	0.00
NH4+			PO4		
Si	**3.4**		F	**0.3**	0.02
			CN		
			Br	**<0.1**	0.00
Total Cations		83.80	Total Anions		83.74

BALANCE, (± 5%) 0.03

BALANCE, "sigma" -0.04

	Measured	Calculated
Sample pH	**7.8**	
Conductivity (umho/cm)		6190
TDS	**5910**	5590
TDS Ratio	1.06	
Resistivity (RW - ohm-m)		
Estimated Ionic Strength (from TDS)		0.1478

Salinity	
Cl as NaCl	206
Carbonate Hardness	310
Non-carbonate Hardness	1377
Free CO2	
Total CO2	
SAR	12.05
Langlier Saturation Index	1.1
Ryznar Index	5.69
Aggressive Index	13.28
Temp	20

Very hard water.

SAMPLE ID: R07080019-001B

BALANCE, (± 5%) 0.03

Sample R07080019-002B not reported to LIMS

SAMPLE ID: **R07080019-002B** 8/30/2007

CATIONS	mg/L	meq/L	ANIONS	mg/L	meq/L
Acidity(as CaCO3)			Cl	**386**	10.90
Ca	**311**	15.54	SO4	**2030**	42.20
Mg	**168**	13.80	T. Alkalinity	**200**	4.00
K	**13**	0.34	HCO3	244	
Na	**678**	29.49	CO3	<1	
Al	**<1**	0.00			
Fe	**<1**	0.00			
Mn	**<1**	0.01			
Hardness (as CaCO3)	1470		OH		
Hardness, grains/gal.	85.9		NO3	**<0.1**	0.00
NH4+			PO4		
Si	**3.4**		F	**0.5**	0.03
			CN		
			Br	**<0.1**	0.00
Total Cations		59.18	Total Anions		57.12

BALANCE, (± 5%) 1.77

BALANCE, "sigma" -2.08

	Measured	Calculated
Sample pH	**8.0**	
Conductivity (umho/cm)		4540
TDS	**4070**	3710
TDS Ratio	1.1	
Resistivity (RW - ohm-m)		
Estimated Ionic Strength (from TDS)		0.1018

Salinity	
Cl as NaCl	637
Carbonate Hardness	200
Non-carbonate Hardness	1268
Free CO2	
Total CO2	
SAR	7.70
Langlier Saturation Index	1.0
Ryznar Index	5.95
Aggressive Index	13.17
Temp	20

Very hard water.

SAMPLE ID: R07080019-002B

BALANCE, (± 5%) 1.77

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey-Burdock

Report Mail Address: 3824 Jet Drive, Rapid City, SD 57703

Contact Name, Phone, Fax, E-mail: Cory Foreman (605) 381-0024

Sampler Name if other than Contact:

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #: R278, R284

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Shipped by:

Cooler ID(s)

Receipt Temp 8.4 °C on ice

Custody Seal Y N

Intact Y N

Signature Match Y N

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)	Thallium 4 gallon	Full Suite R286								SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1 Dewbird CHR01	7/31/07	14:35		X	X											Sample Bottle Set 94	7080019-001
2 Dewbird CHR05	7/31/07	15:10		X	X											Sample Bottle Set 93 CSF	002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Cory Foreman	8/01/07 8:04	Cory Foreman	RJ Fischer	8/01/07 8:04	RJ Fischer
RJ Fischer	8/01/07 12:12	RJ Fischer	Linda Larsen	8/1/07	Linda La

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 11, 2007

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07080273

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 8/21/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07080273-001	DewBurd BVC01	08/20/07 17:07	08/21/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07080273-002	DewBurd BVC04	08/20/07 16:08	08/21/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-001
Client Sample ID: DewBurd BVC01

Report Date: 09/11/07
Collection Date: 08/20/07 17:07
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2500	CFU/100ml	D	100		100	A9222 D	08/21/07 16:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	112	mg/L		5		1	A2320 B	09/01/07 14:22/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/01/07 14:22/jn
Bicarbonate as HCO3	137	mg/L		5		1	A2320 B	09/01/07 14:22/jn
Calcium	73.0	mg/L		0.5		1	E200.7	08/30/07 18:16/eli-c
Chloride	158	mg/L		1		20	E300.0	08/24/07 06:58/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	08/21/07 23:39/jmh
Magnesium	27.8	mg/L		0.5		1	E200.7	08/30/07 18:16/eli-c
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	08/21/07 23:39/jmh
Potassium	11.4	mg/L		0.5		1	E200.7	08/30/07 18:16/eli-c
Silica	6.2	mg/L		0.5		1	E200.7	08/30/07 18:16/eli-c
Sodium	263	mg/L		0.5		1	E200.7	08/30/07 18:16/eli-c
Sulfate	511	mg/L	D	10		20	E300.0	08/24/07 06:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1660	umhos/cm		5		1	A2510 B	08/24/07 10:16/jmh
pH	8.80	s.u.		0.01		1	A4500-H B	08/24/07 09:58/jmh
Solids, Suspended Sediment SSC @ 105 C	47	mg/L		5		1	D3977	08/30/07 09:35/jn
Solids, Total Dissolved TDS @ 180 C	1100	mg/L		5		1	A2540 C	08/25/07 16:54/jmh
Solids, Total Suspended TSS @ 105 C	51	mg/L		5		1	A2540 D	08/24/07 12:18/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	09/01/07 23:59/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	09/01/07 23:59/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	09/02/07 01:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/02/07 01:33/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	08/30/07 18:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/02/07 01:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/02/07 01:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/02/07 01:33/eli-c
Iron	0.66	mg/L		0.03		1	E200.7	08/30/07 18:16/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	09/02/07 01:33/eli-c
Manganese	0.11	mg/L		0.01		1	E200.8	09/02/07 01:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/02/07 01:33/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-001
Client Sample ID: DewBurd BVC01

Report Date: 09/11/07
Collection Date: 08/20/07 17:07
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/02/07 01:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/02/07 01:33/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	09/02/07 01:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/02/07 01:33/eli-c
Uranium	0.0046	mg/L		0.0003		1	E200.8	09/02/07 01:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/02/07 01:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/02/07 01:33/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	7.1	pCi/L		1.0		1	E900.0	09/02/07 23:51/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Gross Beta	14.7	pCi/L		2.0		1	E900.0	09/02/07 23:51/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/04/07 14:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	1.06	%				1	A1030 E	09/10/07 14:03/ADM
Anions	17.4	meq/L				1	A1030 E	09/10/07 14:03/ADM
Cations	17.8	meq/L				1	A1030 E	09/10/07 14:03/ADM
Solids, Total Dissolved Calculated	1120	mg/L				1	A1030 E	09/10/07 14:03/ADM
TDS Balance (0.80 - 1.20)	0.960	dec. %				1	A1030 E	09/10/07 14:03/ADM

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-002
Client Sample ID: DewBurd BVC04

Report Date: 09/11/07
Collection Date: 08/20/07 16:08
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	350	CFU/100ml	D	10		10	A9222 D	08/21/07 16:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	106	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Bicarbonate as HCO3	129	mg/L		5		1	A2320 B	09/01/07 14:23/jn
Calcium	77.8	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Chloride	118	mg/L		1		10	E300.0	08/24/07 07:14/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	08/22/07 00:25/jmh
Magnesium	24.8	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	08/22/07 00:25/jmh
Potassium	10.1	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Silica	15.5	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Sodium	194	mg/L		0.5		1	E200.7	08/30/07 18:20/eli-c
Sulfate	436	mg/L	D	7		10	E300.0	08/24/07 07:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1400	umhos/cm		5		1	A2510 B	08/24/07 10:17/jmh
pH	8.48	s.u.		0.01		1	A4500-H B	08/24/07 09:59/jmh
Solids, Suspended Sediment SSC @ 105 C	156	mg/L		5		1	D3977	08/30/07 09:36/jn
Solids, Total Dissolved TDS @ 180 C	910	mg/L		5		1	A2540 C	08/25/07 16:54/jmh
Solids, Total Suspended TSS @ 105 C	160	mg/L		5		1	A2540 D	08/24/07 12:18/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	09/02/07 00:06/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	09/02/07 00:06/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/30/07 18:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/02/07 01:40/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/02/07 01:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
Iron	2.48	mg/L		0.03		1	E200.7	08/30/07 18:20/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Manganese	0.41	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07080273-002
Client Sample ID: DewBurd BVC04

Report Date: 09/11/07
Collection Date: 08/20/07 16:08
Date Received: 08/21/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/02/07 01:40/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/02/07 01:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/02/07 01:40/eli-c
Uranium	0.0030	mg/L		0.0003		1	E200.8	09/02/07 01:40/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/02/07 01:40/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	09/02/07 01:40/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	7.0	pCi/L		1.0		1	E900.0	09/02/07 23:51/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Gross Beta	15.4	pCi/L		2.0		1	E900.0	09/02/07 23:51/eli-c
Gross Beta precision (±)	2.8	pCi/L				1	E900.0	09/02/07 23:51/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	09/04/07 14:06/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/04/07 14:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.739	%				1	A1030 E	09/10/07 14:03/ADM
Anions	14.6	meq/L				1	A1030 E	09/10/07 14:03/ADM
Cations	14.8	meq/L				1	A1030 E	09/10/07 14:03/ADM
Solids, Total Dissolved Calculated	945	mg/L				1	A1030 E	09/10/07 14:03/ADM
TDS Balance (0.80 - 1.20)	0.970	dec. %				1	A1030 E	09/10/07 14:03/ADM

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 070830A-ALK-SEL-W	
Sample ID: MBLK1_070830A	Method Blank				Run: PH_COND1-R_070830A			09/01/07 14:20	
Alkalinity, Total as CaCO3	6	mg/L	3						
Sample ID: LCS1_070830A	Laboratory Control Sample				Run: PH_COND1-R_070830A			09/01/07 14:21	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	99	90	110			
Sample ID: R07080329-008ADUP	Sample Duplicate				Run: PH_COND1-R_070830A			09/01/07 14:31	
Alkalinity, Total as CaCO3	166	mg/L	5.0				1.2	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	202	mg/L	5.0				1.2	10	
Sample ID: R07080329-009AMS	Sample Matrix Spike				Run: PH_COND1-R_070830A			09/01/07 14:33	
Alkalinity, Total as CaCO3	262	mg/L	5.0	104	80	120			
Method: A2510 B								Batch: 070824_1_COND-PROBE-W	
Sample ID: LCS1-1_070824	Laboratory Control Sample				Run: PH_COND2-R_070824A			08/24/07 10:08	
Conductivity @ 25 C	150	umhos/cm	5.0	100	90	110			
Sample ID: LCS2-1_070824	Laboratory Control Sample				Run: PH_COND2-R_070824A			08/24/07 10:09	
Conductivity @ 25 C	4950	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_070824	Laboratory Control Sample				Run: PH_COND2-R_070824A			08/24/07 10:10	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_070824	Method Blank				Run: PH_COND2-R_070824A			08/24/07 10:10	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07080256-001ADUP	Sample Duplicate				Run: PH_COND2-R_070824A			08/24/07 10:15	
Conductivity @ 25 C	485	umhos/cm	5.0				1.5	10	
Method: A2540 C								Batch: 070824A-SLDS-TDS-W	
Sample ID: MBLK1_070824A	Method Blank				Run: BAL-4-R_070825A			08/25/07 16:43	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_070824A	Laboratory Control Sample				Run: BAL-4-R_070825A			08/25/07 16:44	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	109	90	110			
Sample ID: R07080241-004BMS	Sample Matrix Spike				Run: BAL-4-R_070825A			08/25/07 16:51	
Solids, Total Dissolved TDS @ 180 C	570	mg/L	5.0	100	80	120			
Sample ID: R07080295-002BMS	Sample Matrix Spike				Run: BAL-4-R_070825A			08/25/07 16:57	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 070824A-SLDS-TSS-W	
Sample ID: MBLK1_070824A	Method Blank				Run: BAL-4-R_070824A			08/24/07 12:14	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070824A	Laboratory Control Sample				Run: BAL-4-R_070824A			08/24/07 12:14	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Method: A4500-H B								Batch: 070824_1_PH-W	
Sample ID: LCS_pH-1_070824	Laboratory Control Sample				Run: PH_COND2-R_070824A			08/24/07 09:53	
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07080256-001ADUP	Sample Duplicate				Run: PH_COND2-R_070824A			08/24/07 09:57	
pH	7.84	s.u.	0.010				0.0	1.25	
Method: A9222 D								Batch: 070821-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070821A			08/21/07 10:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07080271-001A	Sample Duplicate				Run: MEMFILT_070821A			08/21/07 16:15	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	
Method: D3977								Batch: 070830A-SLDS-SSC-W	
Sample ID: MBLK1_070830A	Method Blank				Run: BAL-4-R_070830A			08/30/07 09:17	
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_15865
Sample ID: MB-15865	Method Blank				Run: SUB-C89107				08/30/07 16:05
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Silicon as SiO2	0.02	mg/L	0.01						
Sample ID: LCS-15865	Laboratory Control Sample				Run: SUB-C89107				08/30/07 16:08
Boron	0.51	mg/L	0.10	103	90	110			
Iron	0.51	mg/L	0.030	103	90	110			
Calcium	48	mg/L	0.50	97	90	110			
Magnesium	50	mg/L	0.50	99	90	110			
Potassium	53	mg/L	0.50	105	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: C07081452-001BMS	Sample Matrix Spike				Run: SUB-C89107				08/30/07 17:04
Boron	9.5	mg/L	0.13	95	70	130			
Calcium	770	mg/L	0.79	84	70	130			
Iron	11	mg/L	0.087	97	70	130			
Magnesium	460	mg/L	0.80	89	70	130			
Potassium	1200	mg/L	0.50	104	70	130			
Sodium	460	mg/L	5.3	90	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07081452-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C89107				08/30/07 17:07
Silica	20	mg/L	0.11	92	70	130	0.0	20	
Boron	9.7	mg/L	0.13	97	70	130	1.9	20	
Calcium	780	mg/L	0.79	86	70	130	1.3	20	
Iron	11	mg/L	0.087	98	70	130	1.0	20	
Magnesium	480	mg/L	0.80	92	70	130	3.4	20	
Potassium	1300	mg/L	0.50	105	70	130	1.4	20	
Sodium	450	mg/L	5.3	87	70	130	2.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15865
Sample ID: MB-15865	Method Blank				Run: SUB-C89114				09/02/07 00:32
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	6E-05	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-15865	Laboratory Control Sample				Run: SUB-C89114				09/02/07 00:39
Arsenic	0.020	mg/L	0.0010	102	80	120			
Barium	0.022	mg/L	0.10	109	80	120			
Cadmium	0.021	mg/L	0.010	105	80	120			
Chromium	0.020	mg/L	0.050	100	80	120			
Copper	0.020	mg/L	0.010	101	80	120			
Lead	0.021	mg/L	0.050	106	80	120			
Manganese	0.020	mg/L	0.010	102	80	120			
Molybdenum	0.021	mg/L	0.10	107	80	120			
Nickel	0.021	mg/L	0.050	104	80	120			
Selenium	0.10	mg/L	0.0010	103	80	120			
Silver	0.020	mg/L	0.010	98	80	120			
Thorium 232	0.018	mg/L	0.0010	92	80	120			
Uranium	0.021	mg/L	0.00030	104	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.022	mg/L	0.010	105	80	120			
Sample ID: LCS-15865	Laboratory Control Sample				Run: SUB-C89114				09/02/07 00:46
Arsenic	0.50	mg/L	0.0010	100	85	115			
Barium	0.52	mg/L	0.10	104	85	115			
Cadmium	0.50	mg/L	0.010	100	85	115			
Chromium	0.49	mg/L	0.050	99	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.50	mg/L	0.050	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_15865	
Sample ID: LCS-15865	Laboratory Control Sample				Run: SUB-C89114			09/02/07 00:46	
Manganese	0.50	mg/L	0.010	100	85	115			
Molybdenum	0.52	mg/L	0.10	104	85	115			
Nickel	0.49	mg/L	0.050	98	85	115			
Selenium	0.50	mg/L	0.0020	101	85	115			
Silver	0.27	mg/L	0.010	134	85	115			S
Uranium	0.51	mg/L	0.00032	102	85	115			
Vanadium	0.50	mg/L	0.10	100	85	115			
Zinc	0.51	mg/L	0.010	103	85	115			
Sample ID: R07080273-002D	Post Digestion Spike				Run: SUB-C89114			09/02/07 01:46	
Arsenic	0.073	mg/L	0.0010	100	70	130			
Barium	0.17	mg/L	0.10	106	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.066	mg/L	0.050	93	70	130			
Copper	0.072	mg/L	0.010	96	70	130			
Lead	0.077	mg/L	0.050	105	70	130			
Manganese	0.46	mg/L	0.010		70	130			A
Mercury	0.0074	mg/L	0.0010	106	70	130			
Molybdenum	0.075	mg/L	0.10	101	70	130			
Nickel	0.076	mg/L	0.050	95	70	130			
Selenium	0.14	mg/L	0.0010	95	70	130			
Silver	0.037	mg/L	0.010	93	70	130			
Thorium 232	0.074	mg/L	0.0010	103	70	130			
Uranium	0.081	mg/L	0.00030	112	70	130			
Vanadium	0.073	mg/L	0.10	97	70	130			
Zinc	0.083	mg/L	0.010	97	70	130			
Sample ID: R07080273-002D	Post Digestion Spike Duplicate				Run: SUB-C89114			09/02/07 01:53	
Arsenic	0.072	mg/L	0.0010	98	70	130	1.5	20	
Barium	0.17	mg/L	0.10	105	70	130	0.3	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.2	20	
Chromium	0.066	mg/L	0.050	92	70	130	0.6	20	
Copper	0.071	mg/L	0.010	93	70	130	2.5	20	
Lead	0.076	mg/L	0.050	104	70	130	0.8	20	
Manganese	0.46	mg/L	0.010		70	130	0.3	20	A
Mercury	0.0073	mg/L	0.0010	104	70	130	1.3	20	
Molybdenum	0.075	mg/L	0.10	102	70	130	0.0	20	
Nickel	0.075	mg/L	0.050	94	70	130	0.9	20	
Selenium	0.14	mg/L	0.0010	94	70	130	1.0	20	
Silver	0.039	mg/L	0.010	98	70	130	4.8	20	
Thorium 232	0.073	mg/L	0.0010	103	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_15865
Sample ID: R07080273-002D	Post Digestion Spike Duplicate				Run: SUB-C89114				09/02/07 01:53
Uranium	0.080	mg/L	0.00030	109	70	130	1.9	20	
Vanadium	0.072	mg/L	0.10	96	70	130	0.0	20	
Zinc	0.081	mg/L	0.010	94	70	130	2.1	20	
Method: E200.8									Batch: C_15874
Sample ID: MB-15874	Method Blank				Run: SUB-C89114				09/01/07 23:05
Uranium	9E-05	mg/L							
Sample ID: LCS1-15874	Laboratory Control Sample				Run: SUB-C89114				09/01/07 23:12
Uranium	0.0208	mg/L	0.00030	104	80	120			
Sample ID: LCS-15874	Laboratory Control Sample				Run: SUB-C89114				09/01/07 23:19
Uranium	0.990	mg/L	0.00030	99	85	115			
Sample ID: R07080273-002F	Post Digestion Spike				Run: SUB-C89114				09/02/07 00:12
Thorium 232	0.0127	mg/L	0.0010	101	70	130			
Uranium	0.0128	mg/L	0.00030	102	70	130			
Sample ID: R07080273-002F	Post Digestion Spike Duplicate				Run: SUB-C89114				09/02/07 00:19
Thorium 232	0.0128	mg/L	0.0010	102	70	130	1.5	20	
Uranium	0.0130	mg/L	0.00030	104	70	130	1.7	20	
Method: E300.0									Batch: R31064
Sample ID: LFB0708214726-3	Laboratory Fortified Blank				Run: DIONEX_070821A				08/21/07 20:03
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.28	mg/L	0.10	91	90	110			
Sample ID: LFB0708214726-4	Laboratory Fortified Blank				Run: DIONEX_070821A				08/21/07 20:18
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sample ID: R07080273-001BMS	Sample Matrix Spike				Run: DIONEX_070821A				08/21/07 23:54
Fluoride	2.35	mg/L	0.10	88	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	84	80	120			
Sample ID: R07080273-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070821A				08/22/07 00:10
Fluoride	2.36	mg/L	0.10	88	80	120	0.4	10	
Nitrogen, Nitrate as N	2.27	mg/L	0.10	86	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Batch: R31094	
Sample ID: LFB0708230306-3	Laboratory Fortified Blank				Run: DIONEX_070823A			08/23/07 22:12	
Chloride	4.86	mg/L	0.50	97	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: LFB0708230306-4	Laboratory Fortified Blank				Run: DIONEX_070823A			08/23/07 22:29	
Chloride	4.77	mg/L	0.50	95	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R07080262-003AMS	Sample Matrix Spike				Run: DIONEX_070823A			08/24/07 05:36	
Chloride	28.2	mg/L	0.50	95	80	120			
Sulfate	210	mg/L	3.6	77	80	120			S
Sample ID: R07080262-003AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070823A			08/24/07 05:52	
Chloride	27.1	mg/L	0.50	91	80	120	3.7	10	
Sulfate	206	mg/L	3.6	71	80	120	2.0	10	S
Method: E900.0								Batch: C_GrAB-0319	
Sample ID: RB-GrAB-0319	Method Blank				Run: SUB-C89152			09/01/07 02:15	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0319	Laboratory Control Sample				Run: SUB-C89152			09/01/07 02:16	
Gross Alpha	234	pCi/L	1.0	96	70	130			
Sample ID: Cs137-GrAB-0319	Laboratory Control Sample				Run: SUB-C89152			09/01/07 02:16	
Gross Beta	93.5	pCi/L	2.0	97	70	130			
Sample ID: C07081351-001AMS	Sample Matrix Spike				Run: SUB-C89152			09/01/07 02:16	
Gross Alpha	360	pCi/L	1.0	73	70	130			
Sample ID: C07081351-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89152			09/01/07 02:15	
Gross Alpha	354	pCi/L	1.0	72	70	130	1.7	13.3	
Sample ID: C07081351-001AMS	Sample Matrix Spike				Run: SUB-C89152			09/01/07 02:15	
Gross Beta	182	pCi/L	2.0	93	70	130			
Sample ID: C07081351-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89152			09/01/07 02:15	
Gross Beta	188	pCi/L	2.0	96	70	130	3.3	15.5	
Sample ID: C07080804-001ADUP	Sample Duplicate				Run: SUB-C89152			09/02/07 04:25	
Gross Alpha	5.41	pCi/L	1.0				3.9	37.5	
Gross Beta	7.51	pCi/L	2.0				30	56.6	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/11/07
Work Order: R07080273

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2284
Sample ID: C07081530-001AMS	Sample Matrix Spike				Run: SUB-C89178				09/04/07 14:06
Radium 226	29.5	pCi/L	0.20	78	70	130			
- Spike response is acceptable. Since the LCS and the RPD for the MS MSD pair are acceptable, the low response is considered to be matrix related. The batch is approve									
Sample ID: C07081530-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89178				09/04/07 14:06
Radium 226	27.1	pCi/L	0.20	66	70	130	8.4	25.3	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 low response is considered to be matrix related. The batch is approved.									
Sample ID: RB-RA226-2284	Method Blank				Run: SUB-C89178				09/04/07 15:12
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2284	Laboratory Control Sample				Run: SUB-C89178				09/04/07 15:12
Radium 226	11	pCi/L	0.20	85	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Sample R07080273-001 Reported in Run WATERCALC_070910A

SAMPLE ID: **R07080273-001** 9/10/2007

	CATIONS mg/L	meq/L		ANIONS mg/L	meq/L
Acidity(as CaCO3)			Cl	**158**	4.45
Ca	**73**	3.64	SO4	**511**	10.65
Mg	**28**	2.29	T. Alkalinity	**112**	2.24
K	**11**	0.29	HCO3	137	
Na	**263**	11.44	CO3	<1	
Al	**<1**	0.06			
Fe	**<1**	0.02			
Mn	**<1**	0.01			
Hardness (as CaCO3)	297		OH		
Hardness, grains/gal.	17.4		NO3	**0.1**	0.01
NH4+			PO4		
Si	**2.9**		F	**0.6**	0.03
			CN		
			Br	**<0.1**	0.00
	Total Cations	17.76		Total Anions	17.38

BALANCE, (± 5%) 1.06
BALANCE, "sigma" -0.99

	Measured	Calculated
Sample pH	**8.8**	
Conductivity (umho/cm)		1560
TDS	**1080**	1120
TDS Ratio	0.96	
Resistivity (RW - ohm-m)		
Estimated Ionic Strength (from TDS)		0.0271

Salinity	
Cl as NaCl	260
Carbonate Hardness	112
Non-carbonate Hardness	185
Free CO2	
Total CO2	
SAR	6.64
Langlier Saturation Index	1.1
Ryznar Index	6.51
Aggressive Index	13.11
Temp	20

Very hard water.

SAMPLE ID: R07080273-001

BALANCE, (± 5%) 1.06

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey-Burdock

Report Mail Address: 3824 Jet Dr. Rapid City, SD 57703

Contact Name, Phone, Fax, E-mail: Cory Foreman 605.381.0024

Sampler Name if other than Contact:

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #: R278 R286

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 18.6 °C on ice

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

ANALYSIS REQUESTED

	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)	Thorium, Uranium, Full Strip R286								SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	LABORATORY USE ONLY
1	Dew Burd BVC01	8/20/07	17:07	W	X											Bottle Set 5	0708 0273-001
2	Dew Burd BVC04	8/20/07	16:08	W	X											Bottle Set 4	-002
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Custody Record MUST be Signed

Relinquished by: [signature]	Date/Time: 8/21/07 11:10	Shipped by:	Received by: [signature] Date/Time: 8-21-07 1110
Relinquished by:	Date/Time:	Shipped by:	Received by: Date/Time:

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

October 10, 2007

RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07090098

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 9/6/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090098-001	DewBurd CHR01	09/05/07 17:30	09/06/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Radium 226, Total Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090098-002	DewBurd CHR01	09/05/07 17:25	09/06/07	Aqueous	Same As Above
R07090098-003	DewBurdCHR05	09/05/07 18:20	09/06/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 9/6/2007 1:18:00 PM. These samples were assigned ELI Workorder Number R07090098.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-001
Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
Collection Date: 09/05/07 17:30
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	150	CFU/100ml	D	2		2	A9222 D	09/06/07 17:25/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	198	mg/L		5		1	A2320 B	09/19/07 11:08/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/19/07 11:08/jn
Bicarbonate as HCO3	236	mg/L		5		1	A2320 B	09/19/07 11:08/jn
Calcium	191	mg/L		1.0		10	E200.7	10/04/07 23:40/eli-c
Chloride	74	mg/L		1		20	E300.0	09/07/07 15:41/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/07/07 16:30/jmh
Magnesium	94	mg/L		1.0		10	E200.7	10/04/07 23:40/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/07/07 16:30/jmh
Potassium	15	mg/L		1.0		10	E200.7	10/04/07 23:40/eli-c
Silica	8.1	mg/L		1.0		10	E200.7	10/04/07 23:40/eli-c
Sodium	665	mg/L		1.0		10	E200.7	10/04/07 23:40/eli-c
Sulfate	2060	mg/L	D	40		50	E300.0	09/08/07 22:16/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4030	umhos/cm		5		1	A2510 B	09/11/07 09:25/jmh
pH	8.26	s.u.		0.01		1	A4500-H B	09/11/07 08:40/jmh
Solids, Suspended Sediment SSC @ 105 C	56	mg/L		5		1	D3977	09/11/07 08:11/jn
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5		1	A2540 C	09/08/07 12:13/jn
Solids, Total Suspended TSS @ 105 C	57	mg/L		5		1	A2540 D	09/10/07 08:57/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	09/19/07 19:58/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8	09/19/07 19:58/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	09/18/07 03:57/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/18/07 03:57/eli-c
Boron	0.61	mg/L	D	0.20		10	E200.7	10/04/07 23:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/18/07 03:57/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/18/07 03:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/18/07 03:57/eli-c
Iron	0.71	mg/L	D	0.05		10	E200.7	10/04/07 23:40/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	09/18/07 03:57/eli-c
Manganese	0.21	mg/L		0.01		1	E200.8	09/18/07 03:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/18/07 03:57/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-001
Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
Collection Date: 09/05/07 17:30
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/18/07 03:57/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/18/07 03:57/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/18/07 03:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/18/07 03:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/18/07 03:57/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	09/18/07 03:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/18/07 03:57/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/18/07 03:57/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.7	pCi/L		1.0		1	E900.0	09/19/07 01:41/eli-c
Gross Alpha precision (±)	5.1	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/23/07 09:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.45	%				1	A1030 E	10/05/07 17:01/eli-c
Anions	49.0	meq/L				1	A1030 E	10/05/07 17:01/eli-c
Cations	46.7	meq/L				1	A1030 E	10/05/07 17:01/eli-c
Solids, Total Dissolved Calculated	3230	mg/L				1	A1030 E	10/05/07 17:01/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %				1	A1030 E	10/05/07 17:01/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-002
Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
Collection Date: 09/05/07 17:25
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	160	CFU/100ml	D	2		2	A9222 D	09/06/07 17:25/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Bicarbonate as HCO3	234	mg/L		5		1	A2320 B	09/19/07 11:11/jn
Calcium	186	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Chloride	74	mg/L		1		20	E300.0	09/07/07 16:47/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/07/07 17:03/jmh
Magnesium	92	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/07/07 17:03/jmh
Potassium	15	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Silica	7.8	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Sodium	657	mg/L		1.0		10	E200.7	10/04/07 23:44/eli-c
Sulfate	2010	mg/L	D	40		50	E300.0	09/08/07 22:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3990	umhos/cm		5		1	A2510 B	09/11/07 09:29/jmh
pH	8.30	s.u.		0.01		1	A4500-H B	09/11/07 08:42/jmh
Solids, Suspended Sediment SSC @ 105 C	49	mg/L		5		1	D3977	09/11/07 08:12/jn
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5		1	A2540 C	09/08/07 12:13/jn
Solids, Total Suspended TSS @ 105 C	54	mg/L		5		1	A2540 D	09/10/07 08:59/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	09/19/07 20:06/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8	09/19/07 20:06/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Boron	0.60	mg/L	D	0.20		10	E200.7	10/04/07 23:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/18/07 04:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
Iron	0.66	mg/L	D	0.05		10	E200.7	10/04/07 23:44/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Manganese	0.20	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-002
Client Sample ID: DewBurd CHR01

Report Date: 10/10/07
Collection Date: 09/05/07 17:25
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/18/07 04:35/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/18/07 04:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/18/07 04:35/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	09/18/07 04:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/18/07 04:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/18/07 04:35/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.9	pCi/L		1.0		1	E900.0	09/19/07 01:41/eli-c
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Gross Beta	18.6	pCi/L		2.0		1	E900.0	09/19/07 01:41/eli-c
Gross Beta precision (±)	13.4	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/23/07 10:06/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.10	%				1	A1030 E	10/05/07 17:03/eli-c
Anions	47.9	meq/L				1	A1030 E	10/05/07 17:03/eli-c
Cations	45.9	meq/L				1	A1030 E	10/05/07 17:03/eli-c
Solids, Total Dissolved Calculated	3160	mg/L				1	A1030 E	10/05/07 17:03/eli-c
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	10/05/07 17:03/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-003
Client Sample ID: DewBurdCHR05

Report Date: 10/10/07
Collection Date: 09/05/07 18:20
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	290	CFU/100ml	D	10		10	A9222 D	09/06/07 17:25/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	09/19/07 11:12/jn
Calcium	270	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Chloride	344	mg/L		1		20	E300.0	09/07/07 17:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/07/07 17:36/jmh
Magnesium	151	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/07/07 17:36/jmh
Potassium	14	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Silica	7.8	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Sodium	652	mg/L		1.0		10	E200.7	10/04/07 23:48/eli-c
Sulfate	2160	mg/L	D	40		50	E300.0	09/08/07 22:49/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4630	umhos/cm		5		1	A2510 B	09/11/07 09:30/jmh
pH	8.08	s.u.		0.01		1	A4500-H B	09/11/07 08:43/jmh
Solids, Suspended Sediment SSC @ 105 C	6	mg/L		5		1	D3977	09/11/07 08:12/jn
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		5		1	A2540 C	09/08/07 12:14/jn
Solids, Total Suspended TSS @ 105 C	6	mg/L		5		1	A2540 D	09/10/07 08:59/jn
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	09/19/07 20:14/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	09/19/07 20:14/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c
Barium	ND	mg/L		0.1		1	E200.8	09/18/07 04:42/eli-c
Boron	0.54	mg/L	D	0.20		10	E200.7	10/04/07 23:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	09/18/07 04:42/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	09/18/07 04:42/eli-c
Copper	ND	mg/L		0.01		1	E200.8	09/18/07 04:42/eli-c
Iron	0.25	mg/L	D	0.05		10	E200.7	10/04/07 23:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c
Manganese	0.48	mg/L		0.01		1	E200.8	09/18/07 04:42/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090098-003
Client Sample ID: DewBurdCHR05

Report Date: 10/10/07
Collection Date: 09/05/07 18:20
Date Received: 09/06/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Molybdenum	ND	mg/L		0.1		1	E200.8	09/18/07 04:42/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	09/18/07 04:42/eli-c
Selenium	0.002	mg/L		0.001		1	E200.8	09/18/07 04:42/eli-c
Silver	ND	mg/L		0.005		1	E200.8	09/18/07 04:42/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	09/18/07 04:42/eli-c
Uranium	0.0136	mg/L		0.0003		1	E200.8	09/18/07 04:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	09/18/07 04:42/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	09/18/07 04:42/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	9.7	pCi/L		1.0		1	E900.0	09/19/07 01:41/eli-c
Gross Alpha precision (±)	4.6	pCi/L				1	E900.0	09/19/07 01:41/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	09/19/07 01:41/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	09/23/07 11:07/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.85	%				1	A1030 E	10/05/07 17:05/eli-c
Anions	59.0	meq/L				1	A1030 E	10/05/07 17:05/eli-c
Cations	54.6	meq/L				1	A1030 E	10/05/07 17:05/eli-c
Solids, Total Dissolved Calculated	3730	mg/L				1	A1030 E	10/05/07 17:05/eli-c
TDS Balance (0.80 - 1.20)	1.00	dec. %				1	A1030 E	10/05/07 17:05/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 070919A-ALK-SEL-W	
Sample ID: MBLK1_070919A	Method Blank				Run: PH_COND1-R_070719B			09/19/07 10:51	
Alkalinity, Total as CaCO3	4	mg/L	3						
Sample ID: LCS1_070919A	Laboratory Control Sample				Run: PH_COND1-R_070719B			09/19/07 11:02	
Alkalinity, Total as CaCO3	972	mg/L	5.0	97	90	110			
Sample ID: R07090151-004AMS	Sample Matrix Spike				Run: PH_COND1-R_070719B			09/19/07 11:46	
Alkalinity, Total as CaCO3	276	mg/L	5.0	94	80	120			
Method: A2510 B								Batch: 070911_1_COND-PROBE-W	
Sample ID: LCS1-1_070911	Laboratory Control Sample				Run: PH_COND2-R_070911A			09/11/07 09:25	
Conductivity @ 25 C	152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_070911	Laboratory Control Sample				Run: PH_COND2-R_070911A			09/11/07 09:26	
Conductivity @ 25 C	4990	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_070911	Laboratory Control Sample				Run: PH_COND2-R_070911A			09/11/07 09:27	
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_070911	Method Blank				Run: PH_COND2-R_070911A			09/11/07 09:28	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07090098-001BDUP	Sample Duplicate				Run: PH_COND2-R_070911A			09/11/07 09:28	
Conductivity @ 25 C	3980	umhos/cm	5.0				1.2	10	
Method: A2540 C								Batch: 070908A-SLDS-TDS-W	
Sample ID: MBLK1_070908A	Method Blank				Run: BAL-4-R_070908B			09/08/07 12:06	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_070908A	Laboratory Control Sample				Run: BAL-4-R_070908B			09/08/07 12:06	
Solids, Total Dissolved TDS @ 180 C	190	mg/L	5.0	97	90	110			
Sample ID: R07090063-002AMS	Sample Matrix Spike				Run: BAL-4-R_070908B			09/08/07 12:11	
Solids, Total Dissolved TDS @ 180 C	4800	mg/L	5.0	100	80	120			
Sample ID: R07090106-004CMS	Sample Matrix Spike				Run: BAL-4-R_070908B			09/08/07 12:16	
Solids, Total Dissolved TDS @ 180 C	9300	mg/L	5.0	108	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 070910A-SLDS-TSS-W	
Sample ID: MBLK1_070910A	Method Blank				Run: BAL-4-R_070910A			09/10/07 08:43	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070910A	Laboratory Control Sample				Run: BAL-4-R_070910A			09/10/07 08:43	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Method: A4500-H B								Batch: 070911_1_PH-W	
Sample ID: LCS_pH-1_070911	Laboratory Control Sample				Run: PH_COND2-R_070911A			09/11/07 08:38	
pH	6.84	s.u.	0.010	100	98.55	101.45			
Sample ID: R07090098-001BDUP	Sample Duplicate				Run: PH_COND2-R_070911A			09/11/07 08:41	
pH	8.27	s.u.	0.010				0.1	1.25	
Method: A9222 D								Batch: 070906-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070906A			09/06/07 17:25	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07090100-001A	Sample Duplicate				Run: MEMFILT_070906A			09/06/07 17:25	
Bacteria, Fecal Coliform	4.0	CFU/100ml	2.0				110	10	R
Method: D3977								Batch: 070910A-SLDS-SSC-W	
Sample ID: MBLK1_070910A	Method Blank				Run: BAL-4-R_070910B			09/11/07 08:08	
Solids, Suspended Sediment SSC @ 1	ND	mg/L							

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16073
Sample ID: MB-16073	Method Blank				Run: SUB-C90814				10/04/07 23:52
Boron	ND	mg/L	0.02						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.06						
Potassium	ND	mg/L	0.05						
Silica	ND	mg/L	0.1						
Sodium	0.4	mg/L	0.07						
Sample ID: LCS-16073	Laboratory Control Sample				Run: SUB-C90814				10/04/07 23:56
Boron	0.47	mg/L	0.10	94	90	110			
Iron	0.48	mg/L	0.030	96	90	110			
Calcium	45	mg/L	0.50	90	90	110			
Magnesium	49	mg/L	0.50	99	90	110			
Potassium	49	mg/L	0.50	97	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	47	mg/L	0.50	93	90	110			
Sample ID: C07090508-001BMS	Sample Matrix Spike				Run: SUB-C90814				10/05/07 00:04
Boron	0.94	mg/L	0.10	90	70	130			
Iron	0.92	mg/L	0.030	90	70	130			
Calcium	120	mg/L	0.50	60	70	130			S
Magnesium	54	mg/L	0.50	79	70	130			
Potassium	120	mg/L	0.50	96	70	130			
Silica	11	mg/L	0.10		70	130			A
Sodium	60	mg/L	0.50	86	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07090508-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C90814				10/05/07 00:07
Boron	0.98	mg/L	0.10	95	70	130	4.5	20	
Iron	0.95	mg/L	0.030	94	70	130	4.0	20	
Calcium	120	mg/L	0.50	62	70	130	0.8	20	S
Magnesium	56	mg/L	0.50	84	70	130	4.7	20	
Potassium	120	mg/L	0.50	98	70	130	1.5	20	
Silica	11	mg/L	0.10		70	130	2.1	20	A
Sodium	60	mg/L	0.50	87	70	130	0.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16073
Sample ID: MB-16073	Method Blank				Run: SUB-C89896				09/18/07 02:58
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	0.002	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	ND	mg/L	0.002						
Sample ID: LCS-16073	Laboratory Control Sample				Run: SUB-C89896				09/18/07 03:13
Arsenic	0.0486	mg/L	0.0010	97	85	115			
Barium	0.0488	mg/L	0.10	98	85	115			
Cadmium	0.0482	mg/L	0.010	96	85	115			
Chromium	0.0479	mg/L	0.050	96	85	115			
Copper	0.0478	mg/L	0.010	96	85	115			
Lead	0.0469	mg/L	0.050	94	85	115			
Manganese	0.0486	mg/L	0.010	97	85	115			
Molybdenum	0.0491	mg/L	0.10	98	85	115			
Nickel	0.0482	mg/L	0.050	93	85	115			
Selenium	0.0487	mg/L	0.0010	97	85	115			
Silver	0.0197	mg/L	0.010	98	85	115			
Uranium	0.0486	mg/L	0.00030	97	85	115			
Vanadium	0.0481	mg/L	0.10	96	85	115			
Zinc	0.0491	mg/L	0.010	98	85	115			
Sample ID: C07090470-001DMS4	Post Digestion Spike				Run: SUB-C89896				09/18/07 04:57
Arsenic	0.0568	mg/L	0.0010	79	70	130			
Barium	0.0776	mg/L	0.10	106	70	130			
Cadmium	0.0676	mg/L	0.010	97	70	130			
Chromium	0.0727	mg/L	0.050	100	70	130			
Copper	0.0759	mg/L	0.010	98	70	130			
Lead	0.0735	mg/L	0.050	103	70	130			
Manganese	0.174	mg/L	0.010	75	70	130			
Mercury	0.00516	mg/L	0.0010	74	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16073
Sample ID: C07090470-001DMS4	Post Digestion Spike				Run: SUB-C89896				09/18/07 04:57
Molybdenum	0.0657	mg/L	0.10	85	70	130			
Nickel	0.0743	mg/L	0.050	83	70	130			
Selenium	0.0603	mg/L	0.0010	85	70	130			
Silver	0.0183	mg/L	0.010	91	70	130			
Uranium	0.0769	mg/L	0.00030	110	70	130			
Vanadium	0.0675	mg/L	0.10	94	70	130			
Zinc	0.111	mg/L	0.010	89	70	130			
Sample ID: C07090470-001DMSD4	Post Digestion Spike Duplicate				Run: SUB-C89896				09/18/07 05:05
Arsenic	0.0568	mg/L	0.0010	79	70	130	0.0	20	
Barium	0.0789	mg/L	0.10	108	70	130	0.0	20	
Cadmium	0.0680	mg/L	0.010	97	70	130	0.5	20	
Chromium	0.0730	mg/L	0.050	100	70	130	0.3	20	
Copper	0.0766	mg/L	0.010	99	70	130	1.0	20	
Lead	0.0740	mg/L	0.050	103	70	130	0.8	20	
Manganese	0.172	mg/L	0.010	72	70	130	1.3	20	
Mercury	0.00511	mg/L	0.0010	73	70	130	1.0	20	
Molybdenum	0.0672	mg/L	0.10	87	70	130	0.0	20	
Nickel	0.0748	mg/L	0.050	84	70	130	0.7	20	
Selenium	0.0600	mg/L	0.0010	84	70	130	0.5	20	
Silver	0.0157	mg/L	0.010	79	70	130	15	20	
Uranium	0.0775	mg/L	0.00030	111	70	130	0.7	20	
Vanadium	0.0675	mg/L	0.10	94	70	130	0.0	20	
Zinc	0.109	mg/L	0.010	85	70	130	2.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16142
Sample ID: MB-16142	Method Blank				Run: SUB-C90046				09/19/07 18:44
Uranium	0.0004	mg/L	4E-05						
Sample ID: LCS-16142	Laboratory Control Sample				Run: SUB-C90046				09/19/07 18:51
Uranium	0.0498	mg/L	0.00035	99	85	115			
Sample ID: R07090098-003F	Post Digestion Spike				Run: SUB-C90046				09/19/07 20:21
Uranium	0.0244	mg/L	0.00030	96	70	130			
Sample ID: R07090098-003F	Post Digestion Spike Duplicate				Run: SUB-C90046				09/19/07 20:29
Uranium	0.0248	mg/L	0.00030	98	70	130	1.7	20	
Sample ID: R07090098-003F	Post Digestion Spike				Run: SUB-C90046				09/19/07 20:21
Thorium 232	0.0239	mg/L	0.0010	96	70	130			
Sample ID: R07090098-003F	Post Digestion Spike Duplicate				Run: SUB-C90046				09/19/07 20:29
Thorium 232	0.0245	mg/L	0.0010	98	70	130	2.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31290
Sample ID: LFB0709074817-3	Laboratory Fortified Blank				Run: DIONEX_070907A				09/07/07 15:08
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.91	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.30	mg/L	0.10	92	90	110			
Sample ID: LFB0709074817-4	Laboratory Fortified Blank				Run: DIONEX_070907A				09/07/07 15:24
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.25	mg/L	0.10	90	90	110			
Sample ID: R07090098-001BMS	Sample Matrix Spike				Run: DIONEX_070907A				09/07/07 15:57
Chloride	160	mg/L	0.80	86	80	120			
Fluoride	40.3	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	47.8	mg/L	0.34	96	80	120			
Sample ID: R07090098-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070907A				09/07/07 16:14
Chloride	161	mg/L	0.80	87	80	120	0.4	10	
Fluoride	39.5	mg/L	1.3	99	80	120	2.1	10	
Nitrogen, Nitrate as N	46.8	mg/L	0.34	94	80	120	2.1	10	
Sample ID: R07090106-002CMS	Sample Matrix Spike				Run: DIONEX_070907A				09/07/07 19:14
Chloride	167	mg/L	0.80	90	80	120			
Fluoride	40.3	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	49.4	mg/L	0.34	95	80	120			
Sample ID: R07090106-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070907A				09/07/07 19:31
Chloride	166	mg/L	0.80	89	80	120	0.8	10	
Fluoride	39.1	mg/L	1.3	98	80	120	2.9	10	
Nitrogen, Nitrate as N	47.7	mg/L	0.34	92	80	120	3.5	10	
Method: E300.0									Batch: R31293
Sample ID: LFB0709084128-3	Laboratory Fortified Blank				Run: DIONEX_070908A				09/08/07 20:38
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: LFB0709084128-4	Laboratory Fortified Blank				Run: DIONEX_070908A				09/08/07 20:54
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: R07090117-001AMS	Sample Matrix Spike				Run: DIONEX_070908A				09/08/07 21:44
Sulfate	986	mg/L	14	80	80	120			
Sample ID: R07090117-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070908A				09/08/07 22:00
Sulfate	974	mg/L	14	76	80	120	1.2	10	S

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/10/07
Work Order: R07090098

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0323	
Sample ID: RB-GrAB-0323	Method Blank				Run: SUB-C89970			09/17/07 21:54	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0323	Laboratory Control Sample				Run: SUB-C89970			09/17/07 21:54	
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0323	Laboratory Control Sample				Run: SUB-C89970			09/17/07 21:54	
Gross Beta	85.9	pCi/L	2.0	94	70	130			
Sample ID: C07090292-001AMS	Sample Matrix Spike				Run: SUB-C89970			09/17/07 21:54	
Gross Alpha	233	pCi/L	1.0	95	70	130			
Sample ID: C07090292-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89970			09/17/07 21:54	
Gross Alpha	224	pCi/L	1.0	91	70	130	3.8	13.8	
Sample ID: C07090292-001AMS	Sample Matrix Spike				Run: SUB-C89970			09/17/07 21:54	
Gross Beta	90.6	pCi/L	2.0	99	70	130			
Sample ID: C07090292-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C89970			09/17/07 21:54	
Gross Beta	92.2	pCi/L	2.0	100	70	130	1.7	15.5	
Sample ID: R07090086-001A	Sample Duplicate				Run: SUB-C89970			09/18/07 10:22	
Gross Alpha	21.8	pCi/L	1.0				4.0	21.1	
Gross Beta	20.5	pCi/L	2.0				9.2	26.8	
Method: E903.0								Batch: C_RA226-2308	
Sample ID: C07090420-001AMS	Sample Matrix Spike				Run: SUB-C90184			09/23/07 07:05	
Radium 226	20	pCi/L	0.20	69	70	130			S
Sample ID: C07090420-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C90184			09/23/07 08:05	
Radium 226	21	pCi/L	0.20	70	70	130	1.3	28.7	
Sample ID: MB-RA226-2308	Method Blank				Run: SUB-C90184			09/23/07 19:17	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2308	Laboratory Control Sample				Run: SUB-C90184			09/23/07 20:17	
Radium 226	11	pCi/L	0.20	88	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey Burdock

Report Mail Address: 3824 Jet Drive, Rapid City, SD 57703

Contact Name, Phone, Fax, E-mail:

Sampler Name if other than Contact:

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

ANALYSIS REQUESTED

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Shipped by:

Cooler ID(s)

Receipt Temp 2.6 °C on ice

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers / Sample Type: A W S V B O / Air Water Soils/Solids Vegetation Bioassay Other / MATRIX	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	LABORATORY USE ONLY
1	DewBurd CHR01	17:30	9/05/07					Bottle Set 2	R0709009 8-001
2	DewBurd CHR01	17:25	9/05/07					Bottle Set 9	002
3	DewBurd CHR05	18:20	9/05/07					Bottle Set 8	003
4									
5									
6									
7									
8									
9									
10									

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	9/6/07 13:18		Steve Froiland	9-6-07 1318	

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

December 19, 2007

Cory Freeman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07090368 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 9/27/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090368-001	DewBurd CHR01	09/26/07 12:01	09/27/07	Aqueous	Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Anions by Ion Chromatography Metals by, Dissolved pH Metals Digestion by EPA 200.2 Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090368-002	DewBurd BVC01	09/26/07 12:16	09/27/07	Aqueous	Same As Above
R07090368-003	DewBurd SUB08	09/26/07 18:40	09/27/07	Aqueous	Same As Above
R07090368-004	DewBurd CHR05	09/26/07 15:30	09/27/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *19-Dec-07*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R07090368

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report and
- Dissolved radiochemical data was determined from the subtraction of the suspended parameter from the total parameter.

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-001
Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
Collection Date: 09/26/07 12:01
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	76	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Bicarbonate as HCO3	302	mg/L		5		1	A2320 B	10/04/07 16:17/sn
Calcium	344	mg/L		1.0		10	E200.7	10/09/07 17:44/eli-c
Chloride	138	mg/L	D	2		50	E300.0	09/28/07 01:10/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	09/28/07 01:59/jmh
Magnesium	172	mg/L		1.0		10	E200.7	10/09/07 17:44/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 01:59/jmh
Potassium	17	mg/L		1.0		1	E200.7	10/08/07 21:30/eli-c
Silica	8.6	mg/L		1.0		1	E200.7	10/08/07 21:30/eli-c
Sodium	1180	mg/L	D	5.3		10	E200.7	10/08/07 19:48/eli-c
Sulfate	3970	mg/L	D	40		50	E300.0	09/28/07 01:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6450	umhos/cm		5		1	A2510 B	10/02/07 18:23/jmh
pH	8.20	s.u.		0.01		1	A4500-H B	10/02/07 18:24/jmh
Solids, Suspended Sediment SSC @ 105 C	34	mg/L		5		1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	5900	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	35	mg/L		5		1	A2540 D	09/27/07 13:34/sn
METALS - DISSOLVED								
Uranium	0.0149	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:47/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:47/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 22:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 22:54/eli-c
Boron	0.34	mg/L		0.10		2	E200.7	10/09/07 21:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 22:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 22:54/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 22:54/eli-c
Iron	1.1	mg/L		0.03		1	E200.7	10/08/07 21:30/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-001
Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
Collection Date: 09/26/07 12:01
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 22:54/eli-c
Manganese	0.25	mg/L		0.01		1	E200.8	10/08/07 22:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 22:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 22:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 22:54/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	10/08/07 22:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 22:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 22:54/eli-c
Uranium	0.0150	mg/L		0.0003		1	E200.8	10/08/07 22:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 22:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:38/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	33.8	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	6.1	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Gross Beta	21.9	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	14.0	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.68	%				1	A1030 E	12/10/07 19:54/eli-c
Anions	91.5	meq/L				1	A1030 E	12/10/07 19:54/eli-c
Cations	83.3	meq/L				1	A1030 E	12/10/07 19:54/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-001
Client Sample ID: DewBurd CHR01

Report Date: 12/19/07
Collection Date: 09/26/07 12:01
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	5970	mg/L				1	A1030 E	12/10/07 19:54/eli-c
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	12/10/07 19:54/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-002
Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
Collection Date: 09/26/07 12:16
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	78	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Bicarbonate as HCO3	85	mg/L		5		1	A2320 B	10/04/07 16:34/sn
Calcium	53	mg/L		1.0		10	E200.7	10/09/07 17:48/eli-c
Chloride	141	mg/L	D	2		50	E300.0	09/28/07 02:15/jmh
Fluoride	0.9	mg/L		0.1		1	E300.0	09/28/07 03:05/jmh
Magnesium	28	mg/L		1.0		10	E200.7	10/09/07 17:48/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 03:05/jmh
Potassium	11	mg/L		1.0		1	E200.7	10/08/07 21:34/eli-c
Silica	3.8	mg/L		1.0		1	E200.7	10/08/07 21:34/eli-c
Sodium	242	mg/L	D	5.3		10	E200.7	10/08/07 19:52/eli-c
Sulfate	568	mg/L	D	40		50	E300.0	09/28/07 02:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1740	umhos/cm		5		1	A2510 B	10/02/07 18:26/jmh
pH	8.79	s.u.		0.01		1	A4500-H B	10/02/07 18:26/jmh
Solids, Suspended Sediment SSC @ 105 C	40	mg/L		5		1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	31	mg/L		5		1	A2540 D	09/27/07 13:35/sn
METALS - DISSOLVED								
Uranium	0.0075	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:55/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:55/eli-c
METALS - TOTAL								
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 23:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:01/eli-c
Boron	0.21	mg/L		0.10		2	E200.7	10/09/07 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:01/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	10/08/07 21:34/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-002
Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
Collection Date: 09/26/07 12:16
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:01/eli-c
Manganese	0.20	mg/L		0.01		1	E200.8	10/08/07 23:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:01/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	10/08/07 23:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:01/eli-c
Uranium	0.0076	mg/L		0.0003		1	E200.8	10/08/07 23:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:01/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:41/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.6	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	1.2	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Gross Beta	9.4	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	2.9	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.61	%				1	A1030 E	12/10/07 19:55/eli-c
Anions	17.4	meq/L				1	A1030 E	12/10/07 19:55/eli-c
Cations	15.9	meq/L				1	A1030 E	12/10/07 19:55/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-002
Client Sample ID: DewBurd BVC01

Report Date: 12/19/07
Collection Date: 09/26/07 12:16
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	1090	mg/L				1	A1030 E	12/10/07 19:55/eli-c
TDS Balance (0.80 - 1.20)	1.08	dec. %				1	A1030 E	12/10/07 19:55/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-003
Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
Collection Date: 09/26/07 18:40
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	102	mg/L		5		1	A2320 B	10/04/07 16:38/sn
Carbonate as CO3	17	mg/L		5		1	A2320 B	10/04/07 16:38/sn
Bicarbonate as HCO3	90	mg/L		5		1	A2320 B	10/04/07 16:38/sn
Calcium	102	mg/L		1.0		10	E200.7	10/09/07 17:51/eli-c
Chloride	34	mg/L		1		5	E300.0	10/02/07 01:03/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/28/07 03:37/jmh
Magnesium	60	mg/L		1.0		10	E200.7	10/09/07 17:51/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 03:37/jmh
Potassium	14	mg/L		1.0		1	E200.7	10/08/07 21:37/eli-c
Silica	ND	mg/L		1.0		1	E200.7	10/08/07 21:37/eli-c
Sodium	618	mg/L	D	5.3		10	E200.7	10/08/07 19:55/eli-c
Sulfate	1880	mg/L	D	40		50	E300.0	09/28/07 03:21/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3630	umhos/cm		5		1	A2510 B	10/02/07 18:27/jmh
pH	9.37	s.u.		0.01		1	A4500-H B	10/02/07 18:28/jmh
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	10/05/07 08:38/jmh
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	09/27/07 13:35/sn
METALS - DISSOLVED								
Uranium	0.0017	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:02/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:02/eli-c
METALS - TOTAL								
Arsenic	0.003	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:09/eli-c
Boron	0.48	mg/L		0.10		2	E200.7	10/09/07 21:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:09/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:09/eli-c
Iron	0.11	mg/L		0.03		1	E200.7	10/08/07 21:37/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-003
Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
Collection Date: 09/26/07 18:40
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Manganese	0.01	mg/L		0.01		1	E200.8	10/08/07 23:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:09/eli-c
Selenium	0.001	mg/L		0.001		1	E200.8	10/08/07 23:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:09/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:09/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	10/08/07 23:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:09/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta	14.0	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.475	%				1	A1030 E	12/10/07 19:56/eli-c
Anions	37.6	meq/L				1	A1030 E	12/10/07 19:56/eli-c
Cations	37.2	meq/L				1	A1030 E	12/10/07 19:56/eli-c
Solids, Total Dissolved Calculated	2550	mg/L				1	A1030 E	12/10/07 19:56/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-003
Client Sample ID: DewBurd SUB08

Report Date: 12/19/07
Collection Date: 09/26/07 18:40
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	12/10/07 19:56/eli-c
- Ion balance achieved using Sulfate data from E200.7.								

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-004
Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
Collection Date: 09/26/07 15:30
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	8	CFU/100ml	D	2		2	A9222 D	09/27/07 12:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	324	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Bicarbonate as HCO3	395	mg/L		5		1	A2320 B	10/04/07 16:42/sn
Calcium	422	mg/L		1.0		10	E200.7	10/09/07 17:54/eli-c
Chloride	221	mg/L	D	2		50	E300.0	09/28/07 03:54/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/28/07 04:10/jmh
Magnesium	330	mg/L		1.0		10	E200.7	10/09/07 17:54/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/28/07 04:10/jmh
Potassium	19	mg/L		1.0		1	E200.7	10/08/07 21:40/eli-c
Silica	11	mg/L		1.0		1	E200.7	10/08/07 21:40/eli-c
Sodium	897	mg/L	D	5.3		10	E200.7	10/08/07 19:58/eli-c
Sulfate	4160	mg/L	D	40		50	E300.0	09/28/07 03:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6590	umhos/cm		5		1	A2510 B	10/02/07 18:29/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	10/02/07 18:29/jmh
Solids, Suspended Sediment SSC @ 105 C	18	mg/L		5		1	D3977	10/05/07 08:39/jmh
Solids, Total Dissolved TDS @ 180 C	6500	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	23	mg/L		5		1	A2540 D	09/27/07 13:36/sn
METALS - DISSOLVED								
Uranium	0.0346	mg/L		0.0003		1	E200.8	10/24/07 15:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:10/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:10/eli-c
METALS - TOTAL								
Arsenic	0.001	mg/L		0.001		1	E200.8	10/08/07 23:16/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:16/eli-c
Boron	0.39	mg/L		0.10		2	E200.7	10/09/07 21:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:16/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:16/eli-c
Iron	0.39	mg/L		0.03		1	E200.7	10/08/07 21:40/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-004
Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
Collection Date: 09/26/07 15:30
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL								
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:16/eli-c
Manganese	0.58	mg/L		0.01		1	E200.8	10/08/07 23:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:16/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:16/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:16/eli-c
Selenium	0.003	mg/L		0.001		1	E200.8	10/08/07 23:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:16/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:16/eli-c
Uranium	0.0348	mg/L		0.0003		1	E200.8	10/08/07 23:16/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:47/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 19:38/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/10/07 19:38/eli-c
Thorium 230	ND	pCi/L		0.20		1	E907.0	12/10/07 19:38/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	25.6	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	5.8	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Gross Beta	9.8	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Gross Beta precision (±)	13.8	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.328	%				1	A1030 E	12/10/07 19:57/eli-c
Anions	88.4	meq/L				1	A1030 E	12/10/07 19:57/eli-c
Cations	87.8	meq/L				1	A1030 E	12/10/07 19:57/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090368-004
Client Sample ID: DewBurd CHR05

Report Date: 12/19/07
Collection Date: 09/26/07 15:30
Date Received: 09/27/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	5720	mg/L				1	A1030 E	12/10/07 19:57/eli-c
TDS Balance (0.80 - 1.20)	1.13	dec. %				1	A1030 E	12/10/07 19:57/eli-c
- Ion balance achieved using Sulfate data from E200.7.								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071004A-ALK-SEL-W	
Sample ID: MBLK1_071004A	Method Blank				Run: PH_COND1-R_071004A			10/04/07 15:38	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: PH_COND1-R_071004A			10/04/07 15:44	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090368-001BMS	Sample Matrix Spike				Run: PH_COND1-R_071004A			10/04/07 16:27	
Alkalinity, Total as CaCO3	350	mg/L	5.0	96	80	120			
Sample ID: R07090368-002BDUP	Sample Duplicate				Run: PH_COND1-R_071004A			10/04/07 16:36	
Alkalinity, Total as CaCO3	78.0	mg/L	5.0					10	
Carbonate as CO3	9.59	mg/L	5.0				67	10	R
Bicarbonate as HCO3	75.6	mg/L	5.0				12	10	R
Method: A2510 B								Batch: 071002_1_COND-PROBE-W	
Sample ID: LCS1-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:11	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:12	
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 071002A-SLDS-TDS-W	
Sample ID: MBLK1_071002A	Method Blank				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike				Run: BAL-4-R_071002A			10/02/07 13:05	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071002A			10/02/07 13:06	
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 070927A-SLDS-TSS-W	
Sample ID: MBLK1_070927A	Method Blank				Run: BAL-4-R_070927A			09/27/07 13:07	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_070927A	Laboratory Control Sample				Run: BAL-4-R_070927A			09/27/07 13:16	
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	111	85	115			
Sample ID: R07090368-004BDUP	Sample Duplicate				Run: BAL-4-R_070927A			09/27/07 13:37	
Solids, Total Suspended TSS @ 105 C	23	mg/L	5.0				0.0	20	
Method: A4500-H B								Batch: 071002_1_PH-W	
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Method: A9222 D								Batch: 070927-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070927A			09/27/07 12:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07090372-001A	Sample Duplicate				Run: MEMFILT_070927A			09/27/07 17:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90934				10/08/07 19:39
Boron	0.1	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90934				10/08/07 19:42
Boron	0.61	mg/L	0.10	122	90	110			S
Iron	0.48	mg/L	0.030	95	90	110			
Zinc	0.48	mg/L	0.010	96	90	110			
Calcium	44	mg/L	0.50	88	90	110			S
Magnesium	44	mg/L	0.50	88	90	110			S
Potassium	49	mg/L	0.50	98	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: C07100221-004DMS	Sample Matrix Spike				Run: SUB-C90946				10/08/07 16:45
Boron	0.65	mg/L	0.10	104	70	130			
Calcium	77	mg/L	0.50	107	70	130			
Magnesium	62	mg/L	0.50	110	70	130			
Potassium	65	mg/L	0.50	103	70	130			
Sodium	57	mg/L	0.50	100	70	130			
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate				Run: SUB-C90946				10/08/07 16:48
Boron	0.66	mg/L	0.10	105	70	130	0.9	20	
Calcium	77	mg/L	0.50	107	70	130	0.4	20	
Magnesium	61	mg/L	0.50	109	70	130	0.8	20	
Potassium	65	mg/L	0.50	103	70	130	0.5	20	
Sodium	56	mg/L	0.50	99	70	130	0.7	20	
Sample ID: MB-16355	Method Blank				Run: SUB-C91017				10/09/07 15:49
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C91017				10/09/07 16:06
Boron	0.51	mg/L	0.10	101	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Zinc	0.51	mg/L	0.010	101	90	110			
Calcium	47	mg/L	0.50	93	90	110			
Magnesium	47	mg/L	0.50	93	90	110			
Potassium	49	mg/L	0.50	98	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	49	mg/L	0.53	98	90	110			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90947				10/08/07 21:39
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:46
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike				Run: SUB-C90947				10/08/07 23:54
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 00:24
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	20	
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16362
Sample ID: MB-16362	Method Blank				Run: SUB-C90947				10/09/07 00:39
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:46
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:54
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4	Post Digestion Spike				Run: SUB-C90947				10/09/07 04:10
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 04:18
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31614
Sample ID: LFB0709273313-3	Laboratory Fortified Blank				Run: DIONEX_070927A				09/27/07 18:52
Chloride	4.66	mg/L	0.50	93	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0709273313-4	Laboratory Fortified Blank				Run: DIONEX_070927A				09/27/07 19:08
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R07090368-002BMS	Sample Matrix Spike				Run: DIONEX_070927A				09/28/07 02:32
Chloride	371	mg/L	2.0	92	80	120			
Fluoride	101	mg/L	3.2	101	80	120			
Nitrogen, Nitrate as N	120	mg/L	0.84	96	80	120			
Sulfate	1210	mg/L	36	86	80	120			
Sample ID: R07090368-002BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070927A				09/28/07 02:48
Chloride	367	mg/L	2.0	90	80	120	1.1	10	
Fluoride	97.7	mg/L	3.2	98	80	120	3.0	10	
Nitrogen, Nitrate as N	115	mg/L	0.84	92	80	120	4.0	10	
Sulfate	1260	mg/L	36	93	80	120	4.2	10	
Sample ID: R07090345-002AMS	Sample Matrix Spike				Run: DIONEX_070927A				09/28/07 05:32
Chloride	51.7	mg/L	0.50	77	80	120			S
Fluoride	9.95	mg/L	0.32	92	80	120			
Nitrogen, Nitrate as N	15.6	mg/L	0.10	91	80	120			
Sulfate	143	mg/L	3.6	88	80	120			
Sample ID: R07090345-002AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070927A				09/28/07 05:49
Chloride	52.0	mg/L	0.50	78	80	120	0.6	10	S
Fluoride	9.64	mg/L	0.32	89	80	120	3.2	10	
Nitrogen, Nitrate as N	15.3	mg/L	0.10	89	80	120	2.2	10	
Sulfate	143	mg/L	3.6	88	80	120	0.1	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31638
Sample ID: LFB0710013150-3	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:24
Chloride	4.94	mg/L	0.50	99	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:40
Chloride	4.65	mg/L	0.50	93	90	110			
Sample ID: R07090352-006AMS	Sample Matrix Spike				Run: DIONEX_071001A				10/02/07 00:30
Chloride	58.5	mg/L	0.50	92	80	120			
Sample ID: R07090352-006AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071001A				10/02/07 00:46
Chloride	56.7	mg/L	0.50	88	80	120	3.2	10	
Method: E900.0									Batch: C_GrAB-0330
Sample ID: MB-GrAB-0330	Method Blank				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0330	Laboratory Control Sample				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: Cs137-GrAB-0330	Laboratory Control Sample				Run: SUB-C91156				10/10/07 22:43
Gross Beta	90	pCi/L	2.0	98	70	130			
Sample ID: C07090855-001AMS	Sample Matrix Spike				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	400	pCi/L	1.0	72	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	400	pCi/L	1.0	70	70	130	3.2	13.9	
Sample ID: C07090855-001AMS	Sample Matrix Spike				Run: SUB-C91156				10/10/07 22:43
Gross Beta	200	pCi/L	2.0	88	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91156				10/10/07 22:43
Gross Beta	200	pCi/L	2.0	95	70	130	8.3	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-2351	
Sample ID: R07090368-004E	Sample Matrix Spike				Run: SUB-C91326			10/15/07 12:20	
Radium 226	20	pCi/L	0.20	93	70	130			
Sample ID: R07090368-004E	Sample Matrix Spike Duplicate				Run: SUB-C91326			10/15/07 12:20	
Radium 226	19	pCi/L	0.20	93	70	130	1.4	28.6	
Sample ID: MB-RA226-2351	Method Blank				Run: SUB-C91326			10/15/07 13:35	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2351	Laboratory Control Sample				Run: SUB-C91326			10/15/07 13:35	
Radium 226	13	pCi/L	0.20	106	70	130			
Method: E907.0								Batch: C_16513	
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	ND	pCi/L	0.20		70	130	0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	51.0	pCi/L	0.20	88	70	130			
Method: E907.0								Batch: C_R92301	
Sample ID: LCS-R92301	Laboratory Control Sample				Run: SUB-C92301			10/29/07 11:00	
Thorium 230	5.20	pCi/L	0.20	88	70	130			
Sample ID: C07100216-001EDUP	Sample Duplicate				Run: SUB-C92301			10/29/07 11:00	
Thorium 230	ND	pCi/L	0.20				0.0	30	
Sample ID: C07100216-003EMS	Sample Matrix Spike				Run: SUB-C92301			10/29/07 11:00	
Thorium 230	52.4	pCi/L	0.20	93	70	130			
Sample ID: MB-R92301	Method Blank				Run: SUB-C92301			10/29/07 11:00	
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_16513
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92379				10/24/07 07:00
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: MB-R92379	Method Blank				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92379	Laboratory Control Sample				Run: SUB-C92379				10/24/07 07:00
Lead 210	80	pCi/L	1.0	100	70	130			
Method: E909.0M									Batch: C_R92396
Sample ID: R07090368-002E	Sample Duplicate				Run: SUB-C92396				10/25/07 11:25
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: C07100214-001EMS	Sample Matrix Spike				Run: SUB-C92396				10/25/07 11:25
Lead 210	480	pCi/L	1.0	118	70	130			
Sample ID: MB-R92396	Method Blank				Run: SUB-C92396				10/25/07 11:25
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92396	Laboratory Control Sample				Run: SUB-C92396				10/25/07 11:25
Lead 210	94	pCi/L	1.0	116	70	130			
Method: RMO-3008									Batch: C_R91990
Sample ID: C07100085-005FMS	Sample Matrix Spike				Run: SUB-C91990				10/25/07 16:00
Polonium 210	43	pCi/L	1.0	76	70	130			
Sample ID: C07100085-005FMSD	Sample Matrix Spike Duplicate				Run: SUB-C91990				10/25/07 16:00
Polonium 210	45	pCi/L	1.0	80	70	130	5.6	30	
Sample ID: MB-R91990	Method Blank				Run: SUB-C91990				10/25/07 16:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R91990	Laboratory Control Sample				Run: SUB-C91990				10/25/07 16:00
Polonium 210	20	pCi/L	1.0	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/19/07
Work Order: R07090368

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R92111
Sample ID: MB-R92111	Method Blank				Run: SUB-C92111				10/29/07 13:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92111	Laboratory Control Sample				Run: SUB-C92111				10/29/07 13:00
Polonium 210	17	pCi/L	1.0	78	70	130			
Sample ID: C07100214-005EMS	Sample Matrix Spike				Run: SUB-C92111				10/29/07 13:00
Polonium 210	170	pCi/L	1.0	77	70	130			
Sample ID: C07100214-005EMSD	Sample Matrix Spike Duplicate				Run: SUB-C92111				10/29/07 13:00
Polonium 210	170	pCi/L	1.0	77	70	130	0.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey-Burdock

Report Mail Address:

Contact Name, Phone, Fax, E-mail: Cory Foreman 394-6505

Sampler Name if other than Contact: Eric Kiantz 394-6436

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

ANALYSIS REQUESTED: As Per Quote

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp on 4.6 °C ice

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers / Sample Type: A W S V B O / Air Water Soils/Solids Vegetation Bioassay Other / MATRIX	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	LABORATORY USE ONLY Lab ID
1	~~DewBurd GW18 (Peterson)~~	9/26/07	10:39					Groundwater - Bottle Set 18	
2	DewBurd CHR01	9/26/07	12:01					Surface water Bottle Set CHR01	07090368-001
3	DewBurd BVC01	9/26/07	12:16					Surface Water Bottleset BVC01	002
4	~~DewBurd GW02 (Peterson)~~	9/26/07	~~14:33~~ 12:46					Groundwater Bottle set GW02	
5	~~DewBurd GW08 (Engelhorn)~~	9/26/07	14:33					Groundwater Bottle Set GW08	
6	~~DewBurd GW631~~	9/26/07	16:40					Groundwater Bottleset GW631	
7	~~DewBurd GW635~~	9/26/07	18:08					Groundwater Bottleset GW635	
8	DewBurd SUB08	9/26/07	18:40					Surface Water Bottle Set SUB08	003
9	DewBurd CHR05	9-26-07	15:30					Surface Water	004
10									

Custody Record MUST be Signed

Relinquished by:	Date/Time:	Shipped by:	Received by:	Date/Time:
[signature]	9/27/07 9:54		[signature]	9-27-07 9:54

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

December 26, 2007

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07090389 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 9/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07090389-001	DewBurd SUB07	09/27/07 18:45	09/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Total Selenium, Total Selenium-VI, Total Anions by Ion Chromatography pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07090389-002	DewBurd SUB02	09/27/07 18:45	09/28/07	Aqueous	Same As Above
R07090389-003	DewBurd SUB06	09/27/07 18:10	09/28/07	Aqueous	Same As Above
R07090389-004	DewBurd SUB11	09/27/07 17:15	09/28/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Linda Larson

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-001
Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	10/04/07 17:21/sn
Calcium	80	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Chloride	10	mg/L		1		1	E300.0	09/29/07 01:34/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	09/29/07 01:34/jmh
Magnesium	49	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 01:34/jmh
Potassium	38	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Silica	ND	mg/L		1		1	E200.7	10/09/07 20:00/eli-c
Sodium	10	mg/L		0.5		1	E200.7	10/09/07 20:00/eli-c
Sulfate	484	mg/L	D	7		10	E300.0	10/02/07 05:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	972	umhos/cm		5		1	A2510 B	10/02/07 18:48/jmh
pH	3.81	s.u.		0.01		1	A4500-H B	10/02/07 18:49/jmh
Solids, Suspended Sediment SSC @ 105 C	17	mg/L		5		1	D3977	10/05/07 08:39/jmh
Solids, Total Dissolved TDS @ 180 C	680	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	9	mg/L		5		1	A2540 D	10/04/07 08:30/jmh
METALS - DISSOLVED								
Aluminum	1.1	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	10/09/07 20:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Copper	0.01	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Iron	0.44	mg/L		0.03		1	E200.7	10/09/07 20:00/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Manganese	8.21	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Nickel	0.17	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
Selenium	ND	mg/L		0.001		1	E200.8	10/04/07 18:54/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-001
Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 18:54/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8	10/04/07 18:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 18:54/eli-c
Zinc	0.17	mg/L		0.01		1	E200.8	10/04/07 18:54/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:17/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:17/eli-c
METALS - TOTAL								
Aluminum	1.7	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	10/08/07 16:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:24/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	0.02	mg/L		0.01		1	E200.8	10/08/07 23:24/eli-c
Iron	1.60	mg/L		0.03		1	E200.7	10/08/07 16:20/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Manganese	9.04	mg/L		0.01		1	E200.7	10/08/07 16:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:24/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:24/eli-c
Nickel	0.17	mg/L		0.05		1	E200.8	10/08/07 23:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:24/eli-c
Uranium	0.0013	mg/L		0.0003		1	E200.8	10/08/07 23:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	10/08/07 16:20/eli-c
Zinc	0.20	mg/L		0.01		1	E200.7	10/08/07 16:20/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/08/07 16:07/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-001
Client Sample ID: DewBurd SUB07

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	10/30/07 13:35/eli-c
Thorium 230	0.8	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	0.7	pCi/L				1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.3		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.3		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L	D	0.3		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L	D	0.3		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.3	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	33.1	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.11	%				1	A1030 E	12/10/07 18:58/eli-c
Anions	10.4	meq/L				1	A1030 E	12/10/07 18:58/eli-c
Cations	10.8	meq/L				1	A1030 E	12/10/07 18:58/eli-c
Solids, Total Dissolved Calculated	682	mg/L				1	A1030 E	12/10/07 18:58/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %				1	A1030 E	12/10/07 18:58/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-002
Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5		1	A2320 B	10/04/07 17:23/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:23/sn
Bicarbonate as HCO3	112	mg/L		5		1	A2320 B	10/04/07 17:23/sn
Calcium	622	mg/L		1		10	E200.7	10/09/07 20:20/eli-c
Chloride	23	mg/L		1		5	E300.0	10/02/07 05:58/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 01:50/jmh
Magnesium	212	mg/L		1		10	E200.7	10/09/07 20:20/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 01:50/jmh
Potassium	21	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Silica	2	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Sodium	163	mg/L		1		1	E200.7	10/09/07 20:17/eli-c
Sulfate	2840	mg/L	D	40		50	E300.0	10/02/07 05:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3700	umhos/cm		5		1	A2510 B	10/02/07 18:50/jmh
pH	7.99	s.u.		0.01		1	A4500-H B	10/02/07 18:51/jmh
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	10/05/07 08:40/jmh
Solids, Total Dissolved TDS @ 180 C	3900	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	10/04/07 08:30/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	10/09/07 20:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/09/07 20:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
Selenium	0.006	mg/L		0.001		1	E200.8	10/04/07 19:01/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-002
Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 19:01/eli-c
Uranium	0.164	mg/L		0.0003		1	E200.8	10/04/07 19:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 19:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/04/07 19:01/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:25/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 03:25/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	10/08/07 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:31/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:31/eli-c
Iron	0.14	mg/L		0.03		1	E200.7	10/08/07 16:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	10/08/07 23:31/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:31/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:31/eli-c
Uranium	0.168	mg/L		0.0003		1	E200.8	10/08/07 23:31/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:31/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	10/08/07 16:23/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	10/08/07 15:48/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:27/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-002
Client Sample ID: DewBurd SUB02

Report Date: 12/26/07
Collection Date: 09/27/07 18:45
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	10/30/07 13:35/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	82.8	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	4.5	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	55.9	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	7.6	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.01	%				1	A1030 E	12/10/07 18:58/eli-c
Anions	61.6	meq/L				1	A1030 E	12/10/07 18:58/eli-c
Cations	56.8	meq/L				1	A1030 E	12/10/07 18:58/eli-c
Solids, Total Dissolved Calculated	3950	mg/L				1	A1030 E	12/10/07 18:58/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %				1	A1030 E	12/10/07 18:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-003
Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
Collection Date: 09/27/07 18:10
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	82	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Bicarbonate as HCO3	100	mg/L		5		1	A2320 B	10/04/07 17:31/sn
Calcium	512	mg/L		1		10	E200.7	10/09/07 20:27/eli-c
Chloride	10	mg/L		1		1	E300.0	09/29/07 02:07/jmh
Fluoride	3.7	mg/L		0.1		1	E300.0	09/29/07 02:07/jmh
Magnesium	771	mg/L		1		10	E200.7	10/09/07 20:27/eli-c
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	09/29/07 02:07/jmh
Potassium	27	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Silica	30	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Sodium	88	mg/L		1		1	E200.7	10/09/07 20:23/eli-c
Sulfate	5030	mg/L	D	70		100	E300.0	10/02/07 06:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6210	umhos/cm		5		1	A2510 B	10/02/07 18:52/jmh
pH	3.22	s.u.		0.01		1	A4500-H B	10/02/07 18:52/jmh
Solids, Suspended Sediment SSC @ 105 C	10	mg/L		5		1	D3977	10/05/07 08:40/jmh
Solids, Total Dissolved TDS @ 180 C	8100	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	10/04/07 08:31/jmh
METALS - DISSOLVED								
Aluminum	134	mg/L		0.1		50	E200.8	10/09/07 17:45/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 19:09/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	10/09/07 20:23/eli-c
Cadmium	0.026	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Chromium	ND	mg/L		0.01		50	E200.8	10/09/07 17:45/eli-c
Copper	0.11	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
Iron	4.28	mg/L		0.03		1	E200.7	10/09/07 20:23/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Manganese	223	mg/L		0.01		50	E200.8	10/09/07 17:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 19:09/eli-c
Nickel	5.07	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
Selenium	0.035	mg/L		0.001		1	E200.8	10/04/07 19:09/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-003
Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
Collection Date: 09/27/07 18:10
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Thorium 232	0.011	mg/L		0.005		1	E200.8	10/04/07 19:09/eli-c
Uranium	5.29	mg/L		0.0003		1	E200.8	10/04/07 19:09/eli-c
Vanadium	ND	mg/L		0.1		50	E200.8	10/09/07 17:45/eli-c
Zinc	4.31	mg/L		0.01		1	E200.8	10/04/07 19:09/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		25	E200.8	10/09/07 03:32/eli-c
Uranium	0.0013	mg/L		0.0003		25	E200.8	10/09/07 03:32/eli-c
METALS - TOTAL								
Aluminum	160	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Arsenic	ND	mg/L	D	0.003		25	E200.8	10/08/07 23:39/eli-c
Barium	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	10/08/07 16:26/eli-c
Cadmium	0.03	mg/L	D	0.01		25	E200.8	10/08/07 23:39/eli-c
Chromium	ND	mg/L		0.05		25	E200.8	10/08/07 23:39/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	0.14	mg/L		0.01		25	E200.8	10/08/07 23:39/eli-c
Iron	4.66	mg/L		0.03		1	E200.7	10/08/07 16:26/eli-c
Lead	ND	mg/L	D	0.003		25	E200.8	10/08/07 23:39/eli-c
Manganese	215	mg/L		0.01		50	E200.8	10/11/07 08:22/eli-c
Mercury	ND	mg/L		0.001		25	E200.8	10/08/07 23:39/eli-c
Molybdenum	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Nickel	6.53	mg/L		0.05		25	E200.8	10/08/07 23:39/eli-c
Silver	ND	mg/L		0.005		25	E200.8	10/08/07 23:39/eli-c
Thorium 232	0.010	mg/L		0.005		25	E200.8	10/08/07 23:39/eli-c
Uranium	7.38	mg/L	D	0.001		25	E200.8	10/08/07 23:39/eli-c
Vanadium	ND	mg/L		0.1		25	E200.8	10/08/07 23:39/eli-c
Zinc	5.55	mg/L		0.01		1	E200.7	10/08/07 16:26/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	0.013	mg/L		0.001		1	A3114 B	10/08/07 16:09/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:29/eli-c
Selenium-VI	0.013	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-003
Client Sample ID: DewBurd SUB06

Report Date: 12/26/07
Collection Date: 09/27/07 18:10
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	4.3	pCi/L		0.2		1	E903.0	10/30/07 13:35/eli-c
Radium 226 precision (±)	1.5	pCi/L				1	E903.0	10/30/07 13:35/eli-c
Thorium 230	23.8	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	4.6	pCi/L				1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	4.5	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Polonium 210 precision (±)	3.9	pCi/L				1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	3070	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	33.5	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	2500	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	36.5	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	2.82	%				1	A1030 E	12/10/07 19:02/eli-c
Anions	119	meq/L				1	A1030 E	12/10/07 19:02/eli-c
Cations	126	meq/L				1	A1030 E	12/10/07 19:02/eli-c
Solids, Total Dissolved Calculated	7090	mg/L				1	A1030 E	12/10/07 19:02/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %				1	A1030 E	12/10/07 19:02/eli-c

- Ion balance achieved using Sulfate data from E200.7.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-004
Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
Collection Date: 09/27/07 17:15
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	14	CFU/100ml	D	2		2	A9222 D	09/28/07 17:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	122	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	10/04/07 17:34/sn
Calcium	22	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Chloride	4	mg/L		1		1	E300.0	09/29/07 02:23/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	09/29/07 02:23/jmh
Magnesium	6	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	09/29/07 02:23/jmh
Potassium	13	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Silica	8	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Sodium	6	mg/L		1		1	E200.7	10/09/07 20:30/eli-c
Sulfate	15	mg/L		1		1	E300.0	09/29/07 02:23/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	202	umhos/cm		5		1	A2510 B	10/02/07 18:55/jmh
pH	7.04	s.u.		0.01		1	A4500-H B	10/02/07 18:55/jmh
Solids, Suspended Sediment SSC @ 105 C	72	mg/L		5		1	D3977	10/05/07 08:41/jmh
Solids, Total Dissolved TDS @ 180 C	220	mg/L		5		1	A2540 C	10/02/07 13:05/sn
Solids, Total Suspended TSS @ 105 C	79	mg/L		5		1	A2540 D	10/04/07 08:31/jmh
METALS - DISSOLVED								
Aluminum	0.7	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Arsenic	0.002	mg/L	D	0.002		10	E200.8	10/04/07 19:17/eli-c
Barium	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Boron	ND	mg/L		0.1		1	E200.7	10/09/07 20:30/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Copper	ND	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Iron	1.93	mg/L		0.03		1	E200.7	10/09/07 20:30/eli-c
Lead	ND	mg/L		0.001		10	E200.8	10/04/07 19:17/eli-c
Manganese	1.80	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	10/04/07 19:17/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Nickel	0.03	mg/L		0.01		10	E200.8	10/04/07 19:17/eli-c
Selenium	ND	mg/L	D	0.004		10	E200.8	10/04/07 19:17/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-004
Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
Collection Date: 09/27/07 17:15
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	10/04/07 19:17/eli-c
Uranium	0.0336	mg/L	D	0.0004		10	E200.8	10/04/07 19:17/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	10/04/07 19:17/eli-c
Zinc	0.04	mg/L	D	0.02		10	E200.8	10/04/07 19:17/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 03:40/eli-c
Uranium	0.0004	mg/L		0.0003		10	E200.8	10/09/07 03:40/eli-c
METALS - TOTAL								
Aluminum	1.2	mg/L		0.10		10	E200.8	10/11/07 08:29/eli-c
Arsenic	0.006	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	10/08/07 16:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 23:46/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	09/28/07 09:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 23:46/eli-c
Iron	ND	mg/L		0.03		1	E200.8	10/08/07 23:46/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Manganese	2.67	mg/L		0.01		1	E200.7	10/08/07 16:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 23:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 23:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 23:46/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	10/08/07 23:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 23:46/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	10/11/07 08:29/eli-c
- D=Detection limit raised due to matrix interference.								
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/08/07 16:12/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:32/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/11/07 11:00/eli-c
RADIONUCLIDES - DISSOLVED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07090389-004
Client Sample ID: DewBurd SUB11

Report Date: 12/26/07
Collection Date: 09/27/07 17:15
Date Received: 09/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/26/07 09:00/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	10/30/07 15:07/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	10/30/07 15:07/eli-c
Thorium 230	1.6	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	8.2	pCi/L	D	2.0		1	E909.0M	10/24/07 07:00/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L	D	2.0		1	RMO-3008	10/30/07 14:00/eli-c
Radium 226	ND	pCi/L	D	0.4		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L	D	0.4		1	E907.0	10/26/07 10:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	2.9	pCi/L		1.0		1	E900.0	10/14/07 01:13/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Beta	10.6	pCi/L		2.0		1	E900.0	10/14/07 01:13/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	10/14/07 01:13/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.19	.%				1	A1030 E	12/10/07 19:12/eli-c
Anions	2.88	meq/L				1	A1030 E	12/10/07 19:12/eli-c
Cations	2.65	meq/L				1	A1030 E	12/10/07 19:12/eli-c
Solids, Total Dissolved Calculated	155	mg/L				1	A1030 E	12/10/07 19:12/eli-c
TDS Balance (0.80 - 1.20)	1.43	dec. %				1	A1030 E	12/10/07 19:12/eli-c

- TDS balance may have been affected by hydratable solids combined with a relatively clean matrix.

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071004A-ALK-SEL-W	
Sample ID: MBLK1_071004A	Method Blank				Run: PH_COND1-R_071004A			10/04/07 15:38	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: PH_COND1-R_071004A			10/04/07 15:44	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090385-002AMS	Sample Matrix Spike				Run: PH_COND1-R_071004A			10/04/07 17:05	
Alkalinity, Total as CaCO3	272	mg/L	5.0	108	80	120			
Sample ID: R07090391-003BMS	Sample Matrix Spike				Run: PH_COND1-R_071004A			10/04/07 17:55	
Alkalinity, Total as CaCO3	220	mg/L	5.0	96	80	120			
Method: A2510 B								Batch: 071002_1_COND-PROBE-W	
Sample ID: LCS1-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:11	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:12	
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07090389-004BDUP	Sample Duplicate				Run: PH_COND2-R_071002A			10/02/07 18:56	
Conductivity @ 25 C	205	umhos/cm	5.0				1.5	10	
Method: A2540 C								Batch: 071002A-SLDS-TDS-W	
Sample ID: MBLK1_071002A	Method Blank				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike				Run: BAL-4-R_071002A			10/02/07 13:05	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071002A			10/02/07 13:06	
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071004A-SLDS-TSS-W	
Sample ID: MBLK1_071004A	Method Blank				Run: BAL-4-R_071004A			10/04/07 08:27	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: BAL-4-R_071004A			10/04/07 08:27	
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	88	85	115			
Sample ID: R07090389-001BDUP	Sample Duplicate				Run: BAL-4-R_071004A			10/04/07 00:00	
Solids, Total Suspended TSS @ 105 C	10	mg/L	5.0				11	20	
Method: A3114 B								Batch: C_SE3114-071008	
Sample ID: MBLK	Method Blank				Run: SUB-C91036			10/08/07 15:21	
Selenium	ND	mg/L	0.0004						
Sample ID: R07090389-001H	Sample Matrix Spike				Run: SUB-C91036			10/08/07 16:29	
Selenium	0.049	mg/L	0.0010	98	85	115			
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate				Run: SUB-C91036			10/08/07 16:31	
Selenium	0.051	mg/L	0.0010	101	85	115	3.3	10	
Sample ID: 301-98-4	Laboratory Control Sample				Run: SUB-C91036			10/08/07 16:43	
Selenium	0.050	mg/L	0.0010	99	90	110			
Method: A3114 B								Batch: C_SEIV3114-071010	
Sample ID: MBLK	Method Blank				Run: SUB-C91026			10/10/07 10:23	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07090389-001H	Sample Matrix Spike				Run: SUB-C91026			10/10/07 10:46	
Selenium-IV	0.044	mg/L	0.0010	88	85	115			
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate				Run: SUB-C91026			10/10/07 10:48	
Selenium-IV	0.045	mg/L	0.0010	91	85	115	2.6	10	
Sample ID: 301-98-4	Laboratory Control Sample				Run: SUB-C91026			10/10/07 10:51	
Selenium-IV	0.046	mg/L	0.0010	93	90	110			
Method: A3500-Cr B								Batch: 092807A	
Sample ID: MBLK	Method Blank				Run: SPEC1_070928A			09/28/07 09:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_070928A			09/28/07 09:00	
Chromium, Hexavalent	0.18	mg/L	0.0050	91	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 071002_1_PH-W	
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07090389-004BDUP	Sample Duplicate				Run: PH_COND2-R_071002A			10/02/07 18:55	
pH	7.07	s.u.	0.010				0.4	1.25	
Method: A9222 D								Batch: 070928-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070927A			09/28/07 17:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90946				10/08/07 16:13
Boron	0.02	mg/L	0.006						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	0.1	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.3	mg/L	0.1						
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90946				10/08/07 16:16
Boron	0.522	mg/L	0.10	104	85	115			
Iron	0.511	mg/L	0.030	102	85	115			
Manganese	0.504	mg/L	0.010	101	85	115			
Vanadium	0.520	mg/L	0.10	104	85	115			
Zinc	0.547	mg/L	0.010	109	85	115			
Calcium	54.2	mg/L	0.50	108	85	115			
Magnesium	54.2	mg/L	0.50	108	85	115			
Potassium	51.3	mg/L	0.50	103	85	115			
Silica	0.518	mg/L	0.10	104	0	0			S
Sodium	50.0	mg/L	0.50	100	85	115			
Sample ID: C07100221-004DMS	Sample Matrix Spike				Run: SUB-C90946				10/08/07 16:45
Boron	0.650	mg/L	0.10	104	70	130			
Iron	23.3	mg/L	0.030		70	130			A
Manganese	3.08	mg/L	0.010		70	130			A
Vanadium	0.523	mg/L	0.10	105	70	130			
Calcium	76.8	mg/L	0.50	107	70	130			
Magnesium	61.5	mg/L	0.50	110	70	130			
Potassium	64.8	mg/L	0.50	103	70	130			
Silica	12.5	mg/L	0.10		70	130			A
Sodium	56.6	mg/L	0.50	100	70	130			
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate				Run: SUB-C90946				10/08/07 16:48
Boron	0.656	mg/L	0.10	105	70	130	0.9	20	
Iron	23.8	mg/L	0.030		70	130	2.1	20	A
Manganese	3.13	mg/L	0.010		70	130	1.8	20	A
Vanadium	0.528	mg/L	0.10	106	70	130	1.0	20	
Calcium	76.5	mg/L	0.50	107	70	130	0.4	20	
Magnesium	61.0	mg/L	0.50	109	70	130	0.8	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: C07100221-004DMSD	Sample Matrix Spike Duplicate				Run: SUB-C90946			10/08/07 16:48	
Potassium	64.5	mg/L	0.50	103	70	130	0.5	20	
Silica	12.7	mg/L	0.10		70	130	1.5	20	A
Sodium	56.2	mg/L	0.50	99	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R91021	
Sample ID: LFB-ICP25304	Laboratory Fortified Blank				Run: SUB-C91021			10/09/07 14:30	
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Calcium	50	mg/L	0.50	101	85	125			
Iron	1.9	mg/L	0.030	95	85	125			
Magnesium	50	mg/L	0.50	100	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	48	mg/L	0.50	95	85	125			
Sample ID: LRB	Method Blank				Run: SUB-C91021			10/09/07 14:49	
Boron	ND	mg/L	0.004						
Iron	ND	mg/L	0.002						
Calcium	ND	mg/L	0.04						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.06						
Sodium	ND	mg/L	0.06						
Sample ID: C07100085-005CMS	Sample Matrix Spike				Run: SUB-C91021			10/09/07 19:54	
Boron	0.52	mg/L	0.10	94	70	130			
Iron	0.49	mg/L	0.030	91	70	130			
Calcium	200	mg/L	0.50	80	70	130			
Magnesium	81	mg/L	0.50	92	70	130			
Potassium	150	mg/L	0.50	100	70	130			
Silica	11	mg/L	0.10		70	130			A
Sodium	98	mg/L	0.50	84	70	130			
Sample ID: C07100085-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C91021			10/09/07 19:57	
Boron	0.51	mg/L	0.10	91	70	130	2.5	20	
Iron	0.48	mg/L	0.030	89	70	130	1.9	20	
Calcium	190	mg/L	0.50	72	70	130	2.1	20	
Magnesium	79	mg/L	0.50	87	70	130	3.1	20	
Potassium	150	mg/L	0.50	98	70	130	1.6	20	
Silica	11	mg/L	0.10		70	130	1.9	20	A
Sodium	97	mg/L	0.50	82	70	130	1.1	20	
Sample ID: LFB-ICP25304	Laboratory Fortified Blank				Run: SUB-C91021			10/09/07 20:47	
Boron	2.0	mg/L	0.10	100	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Magnesium	51	mg/L	0.50	103	85	125			
Potassium	48	mg/L	0.50	97	85	125			

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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R91021
Sample ID: LFB-ICP25304	Laboratory Fortified Blank				Run: SUB-C91021				10/09/07 20:47
Silica	1.9	mg/L	0.10	97	85	125			
Sodium	47	mg/L	0.50	94	85	125			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90947				10/08/07 21:39
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:46
Aluminum	0.018	mg/L	0.10	92	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Aluminum	0.49	mg/L	0.10	99	85	115			
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike				Run: SUB-C90947				10/08/07 23:54
Aluminum	0.56	mg/L	0.10		70	130			A
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 00:24
Aluminum	0.66	mg/L	0.10		70	130	16	20	A
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_16355	
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate				Run: SUB-C90947			10/09/07 00:24	
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07090389-004D	Post Digestion Spike				Run: SUB-C91068			10/11/07 08:36	
Arsenic	0.50	mg/L	0.0010	99	70	130			
Barium	0.53	mg/L	0.10	100	70	130			
Cadmium	0.50	mg/L	0.010	99	70	130			
Chromium	0.48	mg/L	0.050	97	70	130			
Copper	0.49	mg/L	0.010	99	70	130			
Lead	0.50	mg/L	0.050	100	70	130			
Manganese	2.9	mg/L	0.010		70	130			A
Mercury	0.050	mg/L	0.0010	100	70	130			
Molybdenum	0.50	mg/L	0.10	100	70	130			
Nickel	0.50	mg/L	0.050	98	70	130			
Selenium	0.50	mg/L	0.0020	99	70	130			
Silver	0.22	mg/L	0.010	108	70	130			
Thorium 232	0.49	mg/L	0.0010	98	70	130			
Uranium	0.50	mg/L	0.00032	99	70	130			
Vanadium	0.49	mg/L	0.10	97	70	130			
Zinc	0.52	mg/L	0.010	99	70	130			
Sample ID: R07090389-004D	Post Digestion Spike Duplicate				Run: SUB-C91068			10/11/07 08:42	
Arsenic	0.50	mg/L	0.0010	99	70	130	0.3	20	
Barium	0.52	mg/L	0.10	99	70	130	1.0	20	
Cadmium	0.49	mg/L	0.010	98	70	130	1.5	20	
Chromium	0.48	mg/L	0.050	95	70	130	1.7	20	
Copper	0.49	mg/L	0.010	97	70	130	1.6	20	
Lead	0.50	mg/L	0.050	99	70	130	0.7	20	
Manganese	2.9	mg/L	0.010		70	130	1.5	20	A
Mercury	0.050	mg/L	0.0010	100	70	130	0.0	20	
Molybdenum	0.50	mg/L	0.10	99	70	130	1.3	20	
Nickel	0.49	mg/L	0.050	96	70	130	2.1	20	
Selenium	0.50	mg/L	0.0020	99	70	130	0.2	20	
Silver	0.22	mg/L	0.010	108	70	130	0.3	20	
Thorium 232	0.49	mg/L	0.0010	98	70	130	0.1	20	
Uranium	0.49	mg/L	0.00032	97	70	130	1.9	20	
Vanadium	0.48	mg/L	0.10	96	70	130	0.9	20	
Zinc	0.52	mg/L	0.010	100	70	130	0.6	20	
Sample ID: LCS1-16355	Laboratory Control Sample				Run: SUB-C91068			10/11/07 08:02	
Aluminum	0.019	mg/L	0.10	82	80	120			

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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: LCS1-16355	Laboratory Control Sample				Run: SUB-C91068				10/11/07 08:02
Arsenic	0.018	mg/L	0.0010	89	80	120			
Barium	0.020	mg/L	0.10	99	80	120			
Cadmium	0.019	mg/L	0.010	95	80	120			
Chromium	0.019	mg/L	0.050	95	80	120			
Copper	0.019	mg/L	0.010	95	80	120			
Lead	0.019	mg/L	0.050	96	80	120			
Manganese	0.018	mg/L	0.010	92	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	96	80	120			
Selenium	0.093	mg/L	0.0010	93	80	120			
Silver	0.020	mg/L	0.010	99	80	120			
Thorium 232	0.016	mg/L	0.0010	81	80	120			
Uranium	0.019	mg/L	0.00030	97	80	120			
Vanadium	0.018	mg/L	0.10	92	80	120			
Zinc	0.021	mg/L	0.010	96	80	120			
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C91068				10/11/07 08:09
Aluminum	0.48	mg/L	0.10	95	85	115			
Arsenic	0.48	mg/L	0.0010	96	85	115			
Barium	0.48	mg/L	0.10	96	85	115			
Cadmium	0.48	mg/L	0.010	97	85	115			
Chromium	0.46	mg/L	0.050	92	85	115			
Copper	0.47	mg/L	0.010	95	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.47	mg/L	0.010	94	85	115			
Molybdenum	0.48	mg/L	0.10	96	85	115			
Nickel	0.48	mg/L	0.050	96	85	115			
Selenium	0.48	mg/L	0.0020	96	85	115			
Silver	0.23	mg/L	0.010	113	85	115			
Uranium	0.50	mg/L	0.00032	100	85	115			
Vanadium	0.47	mg/L	0.10	94	85	115			
Zinc	0.51	mg/L	0.010	101	85	115			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16362
Sample ID: MB-16362	Method Blank				Run: SUB-C90947				10/09/07 00:39
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:46
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:54
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4	Post Digestion Spike				Run: SUB-C90947				10/09/07 04:10
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 04:18
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R90827
Sample ID: LRB	Method Blank				Run: SUB-C90827				10/04/07 12:35
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	0.0002	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	3E-05	mg/L	3E-05						
Mercury	7E-05	mg/L	6E-06						
Molybdenum	0.0005	mg/L	7E-05						
Nickel	0.0003	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Thorium 232	0.00010	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827				10/04/07 12:42
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0493	mg/L	0.0010	99	85	115			
Copper	0.0504	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00506	mg/L	0.0010	100	85	115			
Molybdenum	0.0504	mg/L	0.0010	100	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0197	mg/L	0.0010	98	85	115			
Thorium 232	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Zinc	0.0528	mg/L	0.0021	106	85	115			
Sample ID: C07100156-001EMS4	Post Digestion Spike				Run: SUB-C90827				10/04/07 18:32
Aluminum	0.245	mg/L	0.10	97	70	130			
Arsenic	0.258	mg/L	0.0010	102	70	130			
Barium	0.357	mg/L	0.10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R90827
Sample ID: C07100156-001EMS4	Post Digestion Spike				Run: SUB-C90827				10/04/07 18:32
Cadmium	0.247	mg/L	0.010	99	70	130			
Chromium	0.245	mg/L	0.050	98	70	130			
Copper	0.251	mg/L	0.010	97	70	130			
Lead	0.255	mg/L	0.050	102	70	130			
Manganese	0.248	mg/L	0.010	98	70	130			
Mercury	0.0257	mg/L	0.0010	103	70	130			
Molybdenum	0.262	mg/L	0.10	103	70	130			
Nickel	0.247	mg/L	0.050	97	70	130			
Selenium	0.246	mg/L	0.0020	97	70	130			
Silver	0.0828	mg/L	0.010	83	70	130			
Thorium 232	0.252	mg/L	0.0010	100	70	130			
Uranium	0.305	mg/L	0.00030	105	70	130			
Vanadium	0.259	mg/L	0.10	101	70	130			
Zinc	0.275	mg/L	0.010	100	70	130			
Sample ID: C07100156-001EMSD4	Post Digestion Spike Duplicate				Run: SUB-C90827				10/04/07 18:39
Aluminum	0.251	mg/L	0.10	99	70	130	2.2	20	
Arsenic	0.257	mg/L	0.0010	101	70	130	0.1	20	
Barium	0.356	mg/L	0.10	101	70	130	0.2	20	
Cadmium	0.247	mg/L	0.010	99	70	130	0.1	20	
Chromium	0.247	mg/L	0.050	98	70	130	0.6	20	
Copper	0.252	mg/L	0.010	98	70	130	0.2	20	
Lead	0.257	mg/L	0.050	103	70	130	0.7	20	
Manganese	0.250	mg/L	0.010	98	70	130	0.5	20	
Mercury	0.0258	mg/L	0.0010	103	70	130	0.8	20	
Molybdenum	0.261	mg/L	0.10	103	70	130	0.5	20	
Nickel	0.240	mg/L	0.050	95	70	130	2.7	20	
Selenium	0.249	mg/L	0.0020	98	70	130	1.3	20	
Silver	0.0893	mg/L	0.010	89	70	130	7.6	20	
Thorium 232	0.261	mg/L	0.0010	104	70	130	3.7	20	
Uranium	0.308	mg/L	0.00030	107	70	130	1.0	20	
Vanadium	0.259	mg/L	0.10	101	70	130	0.1	20	
Zinc	0.274	mg/L	0.010	100	70	130	0.5	20	
Sample ID: C07100175-002EMS4	Post Digestion Spike				Run: SUB-C90827				10/04/07 20:17
Thorium 232	0.0494	mg/L	0.0010	99	70	130			
Aluminum	0.0420	mg/L	0.10	84	70	130			
Arsenic	0.0538	mg/L	0.0010	103	70	130			
Barium	0.272	mg/L	0.10		70	130			A
Cadmium	0.0498	mg/L	0.0010	100	70	130			
Chromium	0.0498	mg/L	0.050	96	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R90827	
Sample ID: C07100175-002EMS4	Post Digestion Spike				Run: SUB-C90827			10/04/07 20:17	
Copper	0.0585	mg/L	0.010	96	70	130			
Lead	0.0575	mg/L	0.0010	99	70	130			
Manganese	0.0472	mg/L	0.010	92	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Molybdenum	0.0518	mg/L	0.10	100	70	130			
Nickel	0.0556	mg/L	0.050	97	70	130			
Selenium	0.0546	mg/L	0.0010	107	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Uranium	0.0619	mg/L	0.00030	101	70	130			
Vanadium	0.0529	mg/L	0.10	99	70	130			
Zinc	0.181	mg/L	0.010	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100175-002EMSD4	Post Digestion Spike Duplicate				Run: SUB-C90827			10/04/07 20:24	
Thorium 232	0.0517	mg/L	0.0010	103	70	130	4.5	20	
Aluminum	0.0420	mg/L	0.10	84	70	130	0.0	20	
Arsenic	0.0545	mg/L	0.0010	105	70	130	1.2	20	
Barium	0.272	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0497	mg/L	0.0010	99	70	130	0.2	20	
Chromium	0.0506	mg/L	0.050	97	70	130	1.5	20	
Copper	0.0591	mg/L	0.010	97	70	130	1.0	20	
Lead	0.0580	mg/L	0.0010	100	70	130	0.8	20	
Manganese	0.0482	mg/L	0.010	95	70	130	2.1	20	
Mercury	0.00507	mg/L	0.0010	101	70	130	2.9	20	
Molybdenum	0.0520	mg/L	0.10	100	70	130	0.0	20	
Nickel	0.0565	mg/L	0.050	99	70	130	1.6	20	
Selenium	0.0549	mg/L	0.0010	107	70	130	0.7	20	
Silver	0.0176	mg/L	0.010	88	70	130	26	20	R
Uranium	0.0634	mg/L	0.00030	104	70	130	2.5	20	
Vanadium	0.0539	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.182	mg/L	0.010	102	70	130	0.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827			10/05/07 01:53	
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0496	mg/L	0.0010	99	85	115			
Cadmium	0.0486	mg/L	0.0010	97	85	115			
Chromium	0.0474	mg/L	0.0010	95	85	115			
Copper	0.0495	mg/L	0.0010	99	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Manganese	0.0477	mg/L	0.0010	95	85	115			

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.

R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R90827	
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827			10/05/07 01:53	
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0486	mg/L	0.0010	97	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Thorium 232	0.0482	mg/L	0.0010	96	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0477	mg/L	0.0010	95	85	115			
Zinc	0.0512	mg/L	0.0021	102	85	115			
Method: E200.8								Batch: C_R91005	
Sample ID: LRB	Method Blank				Run: SUB-C91005			10/09/07 11:34	
Aluminum	ND	mg/L	0.0001						
Chromium	4E-05	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C91005			10/09/07 11:41	
Aluminum	0.0496	mg/L	0.0010	99	85	115			
Chromium	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0500	mg/L	0.0010	100	85	115			
Vanadium	0.0496	mg/L	0.0010	99	85	115			
Sample ID: R07090389-003G	Post Digestion Spike				Run: SUB-C91005			10/09/07 17:52	
Aluminum	136	mg/L	0.10		70	130			A
Chromium	2.55	mg/L	0.050	102	70	130			
Manganese	226	mg/L	0.010		70	130			A
Vanadium	2.45	mg/L	0.10	98	70	130			
Sample ID: R07090389-003G	Post Digestion Spike Duplicate				Run: SUB-C91005			10/09/07 17:58	
Aluminum	134	mg/L	0.10		70	130	1.6	20	A
Chromium	2.51	mg/L	0.050	100	70	130	1.7	20	
Manganese	226	mg/L	0.010		70	130	0.4	20	A
Vanadium	2.45	mg/L	0.10	98	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31616
Sample ID: LFB0709285802-3	Laboratory Fortified Blank				Run: DIONEX_070928A				09/28/07 21:11
Chloride	4.70	mg/L	0.50	94	90	110			
Fluoride	2.01	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.39	mg/L	0.10	96	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0709285802-4	Laboratory Fortified Blank				Run: DIONEX_070928A				09/28/07 21:27
Nitrogen, Nitrate as N	2.68	mg/L	0.10	107	90	110			
Sample ID: R07100002-001AMS	Sample Matrix Spike				Run: DIONEX_070928A				09/29/07 20:57
Chloride	97.4	mg/L	0.50		80	120			A
Fluoride	2.27	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Sulfate	1240	mg/L	1.0		80	120			A
Sample ID: R07100002-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_070928A				09/29/07 21:13
Chloride	96.9	mg/L	0.50		80	120	0.4	10	A
Fluoride	2.24	mg/L	0.10	89	80	120	1.3	10	
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120	3.5	10	
Sulfate	1220	mg/L	1.0		80	120	1.1	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31638
Sample ID: LFB0710013150-3	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:24
Chloride	4.94	mg/L	0.50	99	90	110			
Sulfate	14.6	mg/L	1.0	97	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:40
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R07090385-001AMS	Sample Matrix Spike				Run: DIONEX_071001A				10/02/07 03:47
Chloride	106	mg/L	0.80	93	80	120			
Sulfate	1610	mg/L	14		80	120			A
Sample ID: R07090385-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071001A				10/02/07 04:03
Chloride	105	mg/L	0.80	91	80	120	1.1	10	
Sulfate	1590	mg/L	14		80	120	1.2	10	A
Sample ID: R07090389-003BMS	Sample Matrix Spike				Run: DIONEX_071001A				10/02/07 07:04
Chloride	494	mg/L	4.0	92	80	120			
Sulfate	6780	mg/L	72	117	80	120			
Sample ID: R07090389-003BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071001A				10/02/07 07:20
Chloride	482	mg/L	4.0	89	80	120	2.4	10	
Sulfate	6530	mg/L	72	100	80	120	6.4	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0331	
Sample ID: RB-GrAB-0331	Method Blank				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0331	Laboratory Control Sample				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	200	pCi/L	1.0	86	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91233			10/13/07 02:39	
Gross Alpha	200	pCi/L	1.0	82	70	130	4.1	13.7	
Sample ID: Cs137-GrAB-0331	Laboratory Control Sample				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	93	70	130			
Sample ID: C07091288-002AMS	Sample Matrix Spike				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	90	70	130			
Sample ID: C07091288-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91233			10/13/07 02:39	
Gross Beta	90	pCi/L	2.0	90	70	130	0.5	15.5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R90863
Sample ID: LCS-R90863	Laboratory Control Sample				Run: SUB-C90863				10/04/07 15:30
Americium 241	730	pCi/L	20	90	70	130			
Cesium 137	1100	pCi/L	20	80	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R90863	Method Blank				Run: SUB-C90863				10/04/07 15:30
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07090389-004E	Sample Duplicate				Run: SUB-C90863				10/04/07 15:30
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-2384	
Sample ID: C07100798-002AMS	Sample Matrix Spike				Run: SUB-C92054			10/30/07 15:07	
Radium 226	48	pCi/L	0.20	92	70	130			
- MS and MSD were inadvertently spiked at double the standard amount.									
Sample ID: C07100798-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C92054			10/30/07 15:07	
Radium 226	60	pCi/L	0.20	120	70	130	22	21	R
- MS and MSD were inadvertently spiked at double the standard amount. - The RPD for the spike 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-RA226-2384	Method Blank				Run: SUB-C92054			10/30/07 16:33	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2384	Laboratory Control Sample				Run: SUB-C92054			10/30/07 16:33	
Radium 226	13	pCi/L	0.20	104	70	130			
Method: E907.0								Batch: C_16513	
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	ND	pCi/L	0.20		70	130	0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	51.0	pCi/L	0.20	88	70	130			
Method: E907.0								Batch: C_R92443	
Sample ID: LCS-R92443	Laboratory Control Sample				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	5.7	pCi/L	0.20	97	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	21	pCi/L	0.20	105	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike Duplicate				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	21	pCi/L	0.20	106	70	130	0.5	30	
Sample ID: MB-R92443	Method Blank				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07090389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_16513
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92379				10/24/07 07:00
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: MB-R92379	Method Blank				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92379	Laboratory Control Sample				Run: SUB-C92379				10/24/07 07:00
Lead 210	80	pCi/L	1.0	100	70	130			
Method: E909.0M									Batch: C_R92528
Sample ID: R07090385-001E	Sample Matrix Spike				Run: SUB-C92528				10/26/07 09:00
Lead 210	340	pCi/L	1.0	84	70	130			
Sample ID: R07090385-001E	Sample Matrix Spike Duplicate				Run: SUB-C92528				10/26/07 09:00
Lead 210	340	pCi/L	1.0	83	70	130	0.3	30	
Sample ID: MB-R92528	Method Blank				Run: SUB-C92528				10/26/07 09:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92528	Laboratory Control Sample				Run: SUB-C92528				10/26/07 09:00
Lead 210	66	pCi/L	1.0	82	70	130			
Method: RMO-3008									Batch: C_R92119
Sample ID: MB-R92119	Method Blank				Run: SUB-C92119				10/30/07 14:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92119	Laboratory Control Sample				Run: SUB-C92119				10/30/07 14:00
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike				Run: SUB-C92119				10/30/07 14:00
Polonium 210	89	pCi/L	1.0	80	70	130			
Sample ID: R07090385-005E	Sample Matrix Spike Duplicate				Run: SUB-C92119				10/30/07 14:00
Polonium 210	87	pCi/L	1.0	78	70	130	2.5	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Power Fan Dewey Burdock

Report Mail Address:

Contact Name, Phone, Fax, E-mail: Cory Foreman

Sampler Name if other than Contact: Eric Krantz

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

ANALYSIS REQUESTED

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 6.8 °C on ice

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers / Sample Type: A W S V B O / Soils/Solids Vegetation Bioassay Other	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1 ~~Dew Burd GW 619~~	9/27/07	17:45						
2 Dew Burd Sub 07	9/27/07	18:45					–	07090389-001
3 Dew Burd Sub 02	9/27/07	16:45						002
4 Dew Burd Sub 06	9/27/07	18:10	W					003
5 ~~Dew Burd GW 16~~	9/27/07	19:18	W					
6 ~~Dew Burd GW 4002 A~~	9/27/07	14:35	W					
7 ~~Dew Burd GW 4002 B~~	9/27/07	14:39	W					
8 ~~Dew Burd GW 13~~	9/27/07	15:45	W					
9 Dew Burd Sub 11	9-27-07	1715	W					004
10								

pH, temp should be 16:45 in .pdf

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by: Cory Foreman Date/Time: 9/28/07 Shipped by: (9:37)

Relinquished by: Date/Time: Shipped by:

Received by: Date/Time:

Received by: [illegible] 9/28/07 0940 Date/Time:

LABORATORY USE ONLY

Sample Disposal: Return to client: _____ Lab Disposal: _____

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

December 26, 2007

Dan Hoyer
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701

Workorder No.: R07100001 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 9/29/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07100001-001	DewBurd BVC04	09/28/07 8:16	09/29/07	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Bacteria, Fecal Coliform
					Conductivity
					Chromium, Hexavalent
					Chromium, Trivalent
					Selenium, Total
					Selenium, Total
					Selenium-VI, Total
					Anions by Ion Chromatography
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, As/Se by Hydride
					Dissolved Filtration
					Gross Alpha, Gross Beta
					Gross Gamma
					Lead 210, Dissolved
					Lead 210, Suspended
					Polonium 210, Dissolved
					Polonium 210, Suspended
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Ka

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100001-001
Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
Collection Date: 09/28/07 08:16
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2		2	A9222 D	09/29/07 08:15/lkl
MAJOR IONS								
Alkalinity, Total as CaCO3	110	mg/L		5		1	A2320 B	10/04/07 17:57/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/04/07 17:57/sn
Bicarbonate as HCO3	134	mg/L		5		1	A2320 B	10/04/07 17:57/sn
Calcium	288	mg/L		1		1	E200.7	10/08/07 20:51/eli-c
Chloride	1310	mg/L	D	4		100	E300.0	10/05/07 00:23/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	10/01/07 21:46/jmh
Magnesium	171	mg/L		1		1	E200.7	10/08/07 20:51/eli-c
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/01/07 21:46/jmh
Potassium	10	mg/L		1		1	E200.7	10/08/07 20:51/eli-c
Silica	1	mg/L		1		1	E200.7	10/08/07 20:51/eli-c
Sodium	1100	mg/L	D	8		10	E200.7	10/08/07 17:57/eli-c
Sulfate	2520	mg/L	D	70		100	E300.0	10/05/07 00:23/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7030	umhos/cm		5		1	A2510 B	10/02/07 18:58/jmh
pH	8.23	s.u.		0.01		1	A4500-H B	10/02/07 18:58/jmh
Solids, Suspended Sediment SSC @ 105 C	86	mg/L		5		1	D3977	10/05/07 08:44/jmh
Solids, Total Dissolved TDS @ 180 C	5600	mg/L		5		1	A2540 C	10/02/07 13:09/sn
Solids, Total Suspended TSS @ 105 C	47	mg/L		5		1	A2540 D	10/04/07 08:34/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/04/07 20:39/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/04/07 20:39/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/04/07 20:39/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	10/08/07 20:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/04/07 20:39/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c
Iron	ND	mg/L		0.03		1	E200.7	10/08/07 20:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/04/07 20:39/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/04/07 20:39/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/04/07 20:39/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100001-001
Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
Collection Date: 09/28/07 08:16
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Selenium	0.003	mg/L		0.001		1	E200.8	10/04/07 20:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/04/07 20:39/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/04/07 20:39/eli-c
Uranium	0.0140	mg/L		0.0003		1	E200.8	10/04/07 20:39/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/04/07 20:39/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/04/07 20:39/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		10	E200.8	10/09/07 02:39/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	10/09/07 02:39/eli-c
METALS - TOTAL								
Aluminum	2.0	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Boron	0.40	mg/L		0.10		2	E200.7	10/09/07 21:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/08/07 22:46/eli-c
Chromium, Hexavalent	ND	mg/L	H	0.005		1	A3500-Cr B	10/03/07 08:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/10/07 16:40/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/08/07 22:46/eli-c
Iron	1.34	mg/L		0.03		1	E200.7	10/08/07 20:58/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Manganese	0.10	mg/L		0.01		1	E200.8	10/08/07 22:46/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/08/07 22:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/08/07 22:46/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/08/07 22:46/eli-c
Uranium	0.0137	mg/L		0.0003		1	E200.8	10/08/07 22:46/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/08/07 22:46/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	10/09/07 21:34/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	10/11/07 17:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/10/07 10:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/12/07 09:25/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100001-001
Client Sample ID: DewBurd BVC04

Report Date: 12/26/07
Collection Date: 09/28/07 08:16
Date Received: 09/29/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	10/25/07 11:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	10/29/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	10/30/07 13:35/eli-c
Thorium 230	1.7	pCi/L		0.2		1	E907.0	10/29/07 15:00/eli-c
Thorium 230 precision (±)	1.5	pCi/L				1	E907.0	10/29/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		2.0		1	E909.0M	10/24/07 07:00/eli-c
Polonium 210	ND	pCi/L		2.0		1	RMO-3008	10/25/07 16:00/eli-c
Radium 226	ND	pCi/L		0.9		1	E903.0	10/30/07 13:34/eli-c
Thorium 230	ND	pCi/L		2.0		1	E907.0	10/26/07 10:00/eli-c
- Suspended RLs raised due to low sample volume.								
RADIONUCLIDES - TOTAL								
Gross Alpha	2.3	pCi/L		1.0		1	E900.0	10/12/07 01:09/eli-c
Gross Alpha precision (±)	4.9	pCi/L				1	E900.0	10/12/07 01:09/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	10/12/07 01:09/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	10/15/07 12:20/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	10/15/07 12:20/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/04/07 15:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.55	%				1	A1030 E	12/10/07 18:22/eli-c
Anions	91.7	meq/L				1	A1030 E	12/10/07 18:22/eli-c
Cations	85.4	meq/L				1	A1030 E	12/10/07 18:22/eli-c
Solids, Total Dissolved Calculated	5640	mg/L				1	A1030 E	12/10/07 18:22/eli-c
TDS Balance (0.80 - 1.20)	0.990	dec. %				1	A1030 E	12/10/07 18:22/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071004A-ALK-SEL-W	
Sample ID: MBLK1_071004A	Method Blank				Run: PH_COND1-R_071004A			10/04/07 15:38	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: PH_COND1-R_071004A			10/04/07 15:44	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R07090391-003BMS	Sample Matrix Spike				Run: PH_COND1-R_071004A			10/04/07 17:55	
Alkalinity, Total as CaCO3	220	mg/L	5.0	96	80	120			
Sample ID: R07100001-001BDUP	Sample Duplicate				Run: PH_COND1-R_071004A			10/04/07 17:59	
Alkalinity, Total as CaCO3	106	mg/L	5.0				3.7	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	129	mg/L	5.0				3.7	10	
Method: A2510 B								Batch: 071002_1_COND-PROBE-W	
Sample ID: LCS1-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:11	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:12	
Conductivity @ 25 C	4920	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071002	Method Blank				Run: PH_COND2-R_071002A			10/02/07 18:13	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 071002A-SLDS-TDS-W	
Sample ID: MBLK1_071002A	Method Blank				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_071002A	Laboratory Control Sample				Run: BAL-4-R_071002A			10/02/07 13:16	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R07090389-004BMS	Sample Matrix Spike				Run: BAL-4-R_071002A			10/02/07 13:05	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120			
Sample ID: R07090389-004BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071002A			10/02/07 13:06	
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	99	80	120	3.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071004A-SLDS-TSS-W	
Sample ID: MBLK1_071004A	Method Blank				Run: BAL-4-R_071004A			10/04/07 08:27	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071004A	Laboratory Control Sample				Run: BAL-4-R_071004A			10/04/07 08:27	
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	88	85	115			
Sample ID: R07100001-001BDUP	Sample Duplicate				Run: BAL-4-R_071004A			10/04/07 00:00	
Solids, Total Suspended TSS @ 105 C	48	mg/L	5.0				2.1	20	
Method: A3114 B								Batch: C_SE3114-071011	
Sample ID: MBLK	Method Blank				Run: SUB-C91121			10/11/07 16:54	
Selenium	ND	mg/L	0.0004						
Sample ID: 301-98-4	Laboratory Control Sample				Run: SUB-C91121			10/11/07 17:14	
Selenium	0.050	mg/L	0.0010	100	90	110			
Method: A3114 B								Batch: C_SEIV3114-071010	
Sample ID: MBLK	Method Blank				Run: SUB-C91026			10/10/07 10:23	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07090389-001H	Sample Matrix Spike				Run: SUB-C91026			10/10/07 10:46	
Selenium-IV	0.044	mg/L	0.0010	88	85	115			
Sample ID: R07090389-001H	Sample Matrix Spike Duplicate				Run: SUB-C91026			10/10/07 10:48	
Selenium-IV	0.045	mg/L	0.0010	91	85	115	2.6	10	
Sample ID: 301-98-4	Laboratory Control Sample				Run: SUB-C91026			10/10/07 10:51	
Selenium-IV	0.046	mg/L	0.0010	93	90	110			
Method: A3500-Cr B								Batch: 100307A	
Sample ID: MBLK	Method Blank				Run: SPEC1_071003A			10/03/07 08:30	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_071003A			10/03/07 08:30	
Chromium, Hexavalent	0.20	mg/L	0.0050	101	80	120			
Sample ID: R07100001-001B	Sample Matrix Spike				Run: SPEC1_071003A			10/03/07 08:30	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Method: A4500-H B								Batch: 071002_1_PH-W	
Sample ID: LCS_pH-1_071002	Laboratory Control Sample				Run: PH_COND2-R_071002A			10/02/07 18:08	
pH	6.85	s.u.	0.010	100	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D								Batch: 070929-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_070929A			09/29/07 08:15	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90934				10/08/07 19:39
Boron	0.1	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90934				10/08/07 19:42
Boron	0.61	mg/L	0.10	122	90	110			S
Iron	0.48	mg/L	0.030	95	90	110			
Zinc	0.48	mg/L	0.010	96	90	110			
Calcium	44	mg/L	0.50	88	90	110			S
Magnesium	44	mg/L	0.50	88	90	110			S
Potassium	49	mg/L	0.50	98	90	110			
Sodium	49	mg/L	0.53	99	90	110			
Sample ID: MB-16355	Method Blank				Run: SUB-C91017				10/09/07 15:49
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C91017				10/09/07 16:06
Boron	0.51	mg/L	0.10	101	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Zinc	0.51	mg/L	0.010	101	90	110			
Calcium	47	mg/L	0.50	93	90	110			
Magnesium	47	mg/L	0.50	93	90	110			
Potassium	49	mg/L	0.50	98	90	110			
Silica	0.51	mg/L	0.10	102	90	110			
Sodium	49	mg/L	0.53	98	90	110			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R90934
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C90934				10/08/07 14:46
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	95	85	125			
Iron	1.9	mg/L	0.030	96	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C90934				10/08/07 14:49
Calcium	25	mg/L	0.50	102	85	125			
Magnesium	25	mg/L	0.50	100	85	125			
Potassium	28	mg/L	0.50	110	85	125			
Sodium	25	mg/L	0.76	102	85	125			
Sample ID: C07100214-001CMS	Sample Matrix Spike				Run: SUB-C90934				10/08/07 17:18
Boron	9.32	mg/L	0.10	93	70	130			
Iron	9.09	mg/L	0.046	91	70	130			
Calcium	449	mg/L	1.0	84	70	130			
Magnesium	432	mg/L	0.50	84	70	130			
Potassium	1130	mg/L	0.50	93	70	130			
Silica	16.0	mg/L	0.20	85	70	130			
Sodium	681	mg/L	7.6	86	70	130			
Sample ID: C07100214-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C90934				10/08/07 17:21
Boron	9.66	mg/L	0.10	97	70	130	3.6	20	
Iron	9.41	mg/L	0.046	94	70	130	3.5	20	
Calcium	459	mg/L	1.0	86	70	130	2.1	20	
Magnesium	439	mg/L	0.50	86	70	130	1.7	20	
Potassium	1150	mg/L	0.50	95	70	130	1.7	20	
Silica	16.4	mg/L	0.20	90	70	130	2.5	20	
Sodium	698	mg/L	7.6	90	70	130	2.5	20	
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C90934				10/08/07 22:59
Silica	1.8	mg/L	0.10	91	85	125			
Boron	1.9	mg/L	0.10	94	85	125			
Iron	1.8	mg/L	0.030	88	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C90934				10/08/07 23:02
Potassium	27	mg/L	0.50	109	85	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: MB-16355	Method Blank				Run: SUB-C90947				10/08/07 21:39
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	ND	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	5E-05	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:46
Aluminum	0.018	mg/L	0.10	92	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.019	mg/L	0.10	95	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.019	mg/L	0.050	93	80	120			
Manganese	0.020	mg/L	0.010	98	80	120			
Molybdenum	0.019	mg/L	0.10	96	80	120			
Nickel	0.019	mg/L	0.050	94	80	120			
Selenium	0.098	mg/L	0.0010	98	80	120			
Silver	0.0085	mg/L	0.010	43	80	120			S
Uranium	0.019	mg/L	0.00030	93	80	120			
Vanadium	0.020	mg/L	0.10	98	80	120			
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Aluminum	0.49	mg/L	0.10	99	85	115			
Arsenic	0.50	mg/L	0.0013	100	85	115			
Barium	0.50	mg/L	0.10	99	85	115			
Cadmium	0.50	mg/L	0.010	99	85	115			
Chromium	0.50	mg/L	0.050	100	85	115			
Copper	0.49	mg/L	0.010	97	85	115			
Lead	0.49	mg/L	0.050	98	85	115			
Manganese	0.50	mg/L	0.010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: LCS-16355	Laboratory Control Sample				Run: SUB-C90947				10/08/07 21:53
Molybdenum	0.50	mg/L	0.10	101	85	115			
Nickel	0.50	mg/L	0.050	100	85	115			
Selenium	0.52	mg/L	0.0022	103	85	115			
Silver	0.094	mg/L	0.010	47	85	115			S
Uranium	0.50	mg/L	0.00038	100	85	115			
Vanadium	0.50	mg/L	0.10	101	85	115			
Sample ID: C07100221-004D MS4	Post Digestion Spike				Run: SUB-C90947				10/08/07 23:54
Aluminum	0.56	mg/L	0.10		70	130			A
Arsenic	0.074	mg/L	0.0010	98	70	130			
Barium	0.100	mg/L	0.10	102	70	130			
Cadmium	0.069	mg/L	0.010	98	70	130			
Chromium	0.070	mg/L	0.050	99	70	130			
Copper	0.071	mg/L	0.010	100	70	130			
Lead	0.072	mg/L	0.050	101	70	130			
Manganese	2.5	mg/L	0.010		70	130			A
Mercury	0.0059	mg/L	0.0010	85	70	130			
Molybdenum	0.071	mg/L	0.10	101	70	130			
Nickel	0.075	mg/L	0.050	100	70	130			
Selenium	0.14	mg/L	0.0010	90	70	130			
Silver	0.028	mg/L	0.010	70	70	130			
Thorium 232	0.072	mg/L	0.0010	103	70	130			
Uranium	0.073	mg/L	0.00030	104	70	130			
Vanadium	0.072	mg/L	0.10	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 00:24
Aluminum	0.66	mg/L	0.10		70	130	16	20	A
Arsenic	0.074	mg/L	0.0010	98	70	130	0.2	20	
Barium	0.10	mg/L	0.10	103	70	130	1.1	20	
Cadmium	0.069	mg/L	0.010	98	70	130	0.6	20	
Chromium	0.069	mg/L	0.050	98	70	130	1.1	20	
Copper	0.072	mg/L	0.010	101	70	130	1.2	20	
Lead	0.072	mg/L	0.050	100	70	130	0.5	20	
Manganese	2.5	mg/L	0.010		70	130	0.1	20	A
Molybdenum	0.071	mg/L	0.10	101	70	130	0.0	20	
Nickel	0.076	mg/L	0.050	102	70	130	1.3	20	
Selenium	0.13	mg/L	0.0010	89	70	130	1.8	20	
Silver	0.025	mg/L	0.010	63	70	130	12	20	S
Thorium 232	0.071	mg/L	0.0010	101	70	130	1.6	20	
Uranium	0.073	mg/L	0.00030	104	70	130	0.2	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16355
Sample ID: C07100221-004D MSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 00:24
Vanadium	0.072	mg/L	0.10	100	70	130	0.0	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.8									Batch: C_16362
Sample ID: MB-16362	Method Blank				Run: SUB-C90947				10/09/07 00:39
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:46
Uranium	0.0219	mg/L	0.00030	104	80	120			
Sample ID: LCS-16362	Laboratory Control Sample				Run: SUB-C90947				10/09/07 00:54
Uranium	1.05	mg/L	0.00037	100	85	115			
Sample ID: C07100221-004FMS4	Post Digestion Spike				Run: SUB-C90947				10/09/07 04:10
Thorium 232	0.535	mg/L	0.0010	107	70	130			
Uranium	0.541	mg/L	0.00035	108	70	130			
Sample ID: C07100221-004FMSD4	Post Digestion Spike Duplicate				Run: SUB-C90947				10/09/07 04:18
Thorium 232	0.536	mg/L	0.0010	107	70	130	0.3	20	
Uranium	0.541	mg/L	0.00035	108	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R90827
Sample ID: LRB	Method Blank				Run: SUB-C90827				10/04/07 12:35
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	0.0002	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	3E-05	mg/L	3E-05						
Mercury	7E-05	mg/L	6E-06						
Molybdenum	0.0005	mg/L	7E-05						
Nickel	0.0003	mg/L	8E-05						
Selenium	ND	mg/L	0.0004						
Silver	ND	mg/L	3E-05						
Thorium 232	0.00010	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827				10/04/07 12:42
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0496	mg/L	0.0010	99	85	115			
Barium	0.0490	mg/L	0.0010	98	85	115			
Cadmium	0.0500	mg/L	0.0010	100	85	115			
Chromium	0.0493	mg/L	0.0010	99	85	115			
Copper	0.0504	mg/L	0.0010	101	85	115			
Lead	0.0498	mg/L	0.0010	100	85	115			
Manganese	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00506	mg/L	0.0010	100	85	115			
Molybdenum	0.0504	mg/L	0.0010	100	85	115			
Nickel	0.0506	mg/L	0.0010	101	85	115			
Selenium	0.0495	mg/L	0.0010	99	85	115			
Silver	0.0197	mg/L	0.0010	98	85	115			
Thorium 232	0.0499	mg/L	0.0010	100	85	115			
Uranium	0.0504	mg/L	0.00030	101	85	115			
Vanadium	0.0497	mg/L	0.0010	99	85	115			
Zinc	0.0528	mg/L	0.0021	106	85	115			
Sample ID: C07100175-002EMS4	Post Digestion Spike				Run: SUB-C90827				10/04/07 20:17
Thorium 232	0.0494	mg/L	0.0010	99	70	130			
Aluminum	0.0420	mg/L	0.10	84	70	130			
Arsenic	0.0538	mg/L	0.0010	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R90827
Sample ID: C07100175-002EMS4	Post Digestion Spike				Run: SUB-C90827				10/04/07 20:17
Barium	0.272	mg/L	0.10		70	130			A
Cadmium	0.0498	mg/L	0.0010	100	70	130			
Chromium	0.0498	mg/L	0.050	96	70	130			
Copper	0.0585	mg/L	0.010	96	70	130			
Lead	0.0575	mg/L	0.0010	99	70	130			
Manganese	0.0472	mg/L	0.010	92	70	130			
Mercury	0.00492	mg/L	0.0010	98	70	130			
Molybdenum	0.0518	mg/L	0.10	100	70	130			
Nickel	0.0556	mg/L	0.050	97	70	130			
Selenium	0.0546	mg/L	0.0010	107	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Uranium	0.0619	mg/L	0.00030	101	70	130			
Vanadium	0.0529	mg/L	0.10	99	70	130			
Zinc	0.181	mg/L	0.010	100	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07100175-002EMSD4	Post Digestion Spike Duplicate				Run: SUB-C90827				10/04/07 20:24
Thorium 232	0.0517	mg/L	0.0010	103	70	130	4.5	20	
Aluminum	0.0420	mg/L	0.10	84	70	130	0.0	20	
Arsenic	0.0545	mg/L	0.0010	105	70	130	1.2	20	
Barium	0.272	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0497	mg/L	0.0010	99	70	130	0.2	20	
Chromium	0.0506	mg/L	0.050	97	70	130	1.5	20	
Copper	0.0591	mg/L	0.010	97	70	130	1.0	20	
Lead	0.0580	mg/L	0.0010	100	70	130	0.8	20	
Manganese	0.0482	mg/L	0.010	95	70	130	2.1	20	
Mercury	0.00507	mg/L	0.0010	101	70	130	2.9	20	
Molybdenum	0.0520	mg/L	0.10	100	70	130	0.0	20	
Nickel	0.0565	mg/L	0.050	99	70	130	1.6	20	
Selenium	0.0549	mg/L	0.0010	107	70	130	0.7	20	
Silver	0.0176	mg/L	0.010	88	70	130	26	20	R
Uranium	0.0634	mg/L	0.00030	104	70	130	2.5	20	
Vanadium	0.0539	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.182	mg/L	0.010	102	70	130	0.5	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827				10/05/07 01:53
Arsenic	0.0494	mg/L	0.0010	99	85	115			
Barium	0.0496	mg/L	0.0010	99	85	115			
Cadmium	0.0486	mg/L	0.0010	97	85	115			
Chromium	0.0474	mg/L	0.0010	95	85	115			

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.

R - RPD exceeds advisory limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R90827
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C90827				10/05/07 01:53
Copper	0.0495	mg/L	0.0010	99	85	115			
Lead	0.0495	mg/L	0.0010	99	85	115			
Manganese	0.0477	mg/L	0.0010	95	85	115			
Molybdenum	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0486	mg/L	0.0010	97	85	115			
Selenium	0.0500	mg/L	0.0010	100	85	115			
Thorium 232	0.0482	mg/L	0.0010	96	85	115			
Uranium	0.0495	mg/L	0.00030	99	85	115			
Vanadium	0.0477	mg/L	0.0010	95	85	115			
Zinc	0.0512	mg/L	0.0021	102	85	115			
Method: E300.0									Batch: R31638
Sample ID: LFB0710013150-3	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:24
Fluoride	1.98	mg/L	0.10	99	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Sample ID: LFB0710013150-4	Laboratory Fortified Blank				Run: DIONEX_071001A				10/01/07 20:40
Fluoride	1.87	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.33	mg/L	0.10	93	90	110			
Sample ID: R07100001-001BMS	Sample Matrix Spike				Run: DIONEX_071001A				10/01/07 21:13
Fluoride	39.0	mg/L	1.3	97	80	120			
Nitrogen, Nitrate as N	46.8	mg/L	0.34	94	80	120			
Sample ID: R07100001-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071001A				10/01/07 21:29
Fluoride	35.4	mg/L	1.3	89	80	120	9.6	10	
Nitrogen, Nitrate as N	44.3	mg/L	0.34	89	80	120	5.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31689
Sample ID: LFB0710040616-3	Laboratory Fortified Blank				Run: DIONEX_071004A				10/04/07 19:28
Chloride	5.09	mg/L	0.50	102	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0710040616-4	Laboratory Fortified Blank				Run: DIONEX_071004A				10/04/07 19:44
Chloride	4.53	mg/L	0.50	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R07100091-001AMS	Sample Matrix Spike				Run: DIONEX_071004A				10/04/07 23:51
Chloride	194	mg/L	0.50		80	120			A
Sulfate	32.9	mg/L	1.0	77	80	120			S
Sample ID: R07100091-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071004A				10/05/07 00:07
Chloride	194	mg/L	0.50		80	120	0.2	10	A
Sulfate	32.0	mg/L	1.0	71	80	120	2.6	10	S
Method: E900.0									Batch: C_GrAB-0330
Sample ID: MB-GrAB-0330	Method Blank				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0330	Laboratory Control Sample				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: C07090855-001AMS	Sample Matrix Spike				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	400	pCi/L	1.0	72	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91156				10/10/07 22:43
Gross Alpha	400	pCi/L	1.0	70	70	130	3.2	13.9	
Sample ID: C07090855-001AMS	Sample Matrix Spike				Run: SUB-C91156				10/10/07 22:43
Gross Beta	200	pCi/L	2.0	88	70	130			
Sample ID: C07090855-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C91156				10/10/07 22:43
Gross Beta	200	pCi/L	2.0	95	70	130	8.3	15.6	

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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R90863
Sample ID: LCS-R90863	Laboratory Control Sample				Run: SUB-C90863				10/04/07 15:30
Americium 241	730	pCi/L	20	90	70	130			
Cesium 137	1100	pCi/L	20	80	70	130			
Potassium 40	7200	pCi/L	20	108	70	130			
Sample ID: MB-R90863	Method Blank				Run: SUB-C90863				10/04/07 15:30
Americium 241	ND	pCi/L	20						
Barium 133	ND	pCi/L	20						
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Method: E903.0									Batch: C_RA226-2351
Sample ID: R07090368-004E	Sample Matrix Spike				Run: SUB-C91326				10/15/07 12:20
Radium 226	20	pCi/L	0.20	93	70	130			
Sample ID: R07090368-004E	Sample Matrix Spike Duplicate				Run: SUB-C91326				10/15/07 12:20
Radium 226	19	pCi/L	0.20	93	70	130	1.4	28.6	
Sample ID: MB-RA226-2351	Method Blank				Run: SUB-C91326				10/15/07 13:35
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2351	Laboratory Control Sample				Run: SUB-C91326				10/15/07 13:35
Radium 226	13	pCi/L	0.20	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-2384	
Sample ID: C07100798-002AMS	Sample Matrix Spike				Run: SUB-C92054			10/30/07 15:07	
Radium 226	48	pCi/L	0.20	92	70	130			
- MS and MSD were inadvertently spiked at double the standard amount.									
Sample ID: C07100798-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C92054			10/30/07 15:07	
Radium 226	60	pCi/L	0.20	120	70	130	22	21	R
- MS and MSD were inadvertently spiked at double the standard amount.									
- The RPD for the spike 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-RA226-2384	Method Blank				Run: SUB-C92054			10/30/07 16:33	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2384	Laboratory Control Sample				Run: SUB-C92054			10/30/07 16:33	
Radium 226	13	pCi/L	0.20	104	70	130			
Method: E907.0								Batch: C_16513	
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	ND	pCi/L	0.20		70	130	0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92213			10/26/07 10:00	
Thorium 230	51.0	pCi/L	0.20	88	70	130			
Method: E907.0								Batch: C_R92443	
Sample ID: LCS-R92443	Laboratory Control Sample				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	5.7	pCi/L	0.20	97	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	21	pCi/L	0.20	105	70	130			
Sample ID: R07090385-003E	Sample Matrix Spike Duplicate				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	21	pCi/L	0.20	106	70	130	0.5	30	
Sample ID: MB-R92443	Method Blank				Run: SUB-C92443			10/29/07 15:00	
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_16513
Sample ID: R07090368-002G	Sample Duplicate				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: R07090368-004G	Sample Matrix Spike				Run: SUB-C92379				10/24/07 07:00
Lead 210	430	pCi/L	1.0	106	70	130			
Sample ID: MB-R92379	Method Blank				Run: SUB-C92379				10/24/07 07:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92379	Laboratory Control Sample				Run: SUB-C92379				10/24/07 07:00
Lead 210	80	pCi/L	1.0	100	70	130			
Method: E909.0M									Batch: C_R92396
Sample ID: R07090368-002E	Sample Duplicate				Run: SUB-C92396				10/25/07 11:25
Lead 210	ND	pCi/L	1.0				0.0	30	
Sample ID: C07100214-001EMS	Sample Matrix Spike				Run: SUB-C92396				10/25/07 11:25
Lead 210	480	pCi/L	1.0	118	70	130			
Sample ID: MB-R92396	Method Blank				Run: SUB-C92396				10/25/07 11:25
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92396	Laboratory Control Sample				Run: SUB-C92396				10/25/07 11:25
Lead 210	94	pCi/L	1.0	116	70	130			
Method: RMO-3008									Batch: C_R91990
Sample ID: C07100085-005FMS	Sample Matrix Spike				Run: SUB-C91990				10/25/07 16:00
Polonium 210	43	pCi/L	1.0	76	70	130			
Sample ID: C07100085-005FMSD	Sample Matrix Spike Duplicate				Run: SUB-C91990				10/25/07 16:00
Polonium 210	45	pCi/L	1.0	80	70	130	5.6	30	
Sample ID: MB-R91990	Method Blank				Run: SUB-C91990				10/25/07 16:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R91990	Laboratory Control Sample				Run: SUB-C91990				10/25/07 16:00
Polonium 210	20	pCi/L	1.0	90	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100001

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R92111
Sample ID: MB-R92111	Method Blank				Run: SUB-C92111				10/29/07 13:00
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92111	Laboratory Control Sample				Run: SUB-C92111				10/29/07 13:00
Polonium 210	17	pCi/L	1.0	78	70	130			
Sample ID: C07100214-005EMS	Sample Matrix Spike				Run: SUB-C92111				10/29/07 13:00
Polonium 210	170	pCi/L	1.0	77	70	130			
Sample ID: C07100214-005EMSD	Sample Matrix Spike Duplicate				Run: SUB-C92111				10/29/07 13:00
Polonium 210	170	pCi/L	1.0	77	70	130	0.3	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 2

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Power Tech Dewey Burdock

Report Mail Address:

Contact Name, Phone, Fax, E-mail: Cory.Foreman@respec.com ~~Zell~~ 605-381-0024

Sampler Name if other than Contact: Eric Crantz 605-381-9800

Invoice Address:

Invoice Contact & Phone #: Cory Foreman 605-381-0024

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

Special Report Formats - ELI must be notified prior to sample submittal for the following:
NELAC ☐ A2LA ☐ Level IV ☐
Other _____
EDD/EDT ☐ Format _____

ANALYSIS REQUESTED: See Quote

SEE ATTACHED

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 6.1 °C on ice

Cooler ID(s)

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B C; Air Water Soils/Solids Vegetation Bioassay Other)	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	Dew Burd BVC04	9/28/07	8:16	W			Surface water	0707160001-001
2	~~Dew Burd GW628~~	~~9/28/07~~	~~9:23~~	~~W~~			GW	
3	~~Dew Burd GW675~~	~~9/28/07~~	~~10:49~~	~~W~~			GW	
4	~~Dew Burd GW 42~~	~~9/28/07~~	~~11:34~~	~~W~~			GW	
5	~~Dew Burd GW677~~	~~9/28/07~~	~~12:26~~	~~W~~			GW	
6	~~Dew Burd GW676~~	~~9/28/07~~	~~13:46~~	~~W~~			GW	
7	~~Dew Burd GW679~~	~~9/28/07~~	~~15:04~~	~~W~~			GW	
8	~~Dew Burd GW 678~~	~~9/28/07~~	~~16:22~~	~~W~~			GW	
9	~~Dew Burd GW 7002~~	~~9/28/07~~	~~17:48~~	~~W~~			GW	
10	~~Dew Burd GW7~~	~~9/28/07~~	~~17:28~~	~~W~~			GW	

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by: [signature] Date/Time: 9/29/07 0758 Shipped by: Received by: Date/Time:

Relinquished by: Date/Time: Shipped by: Received by: [signature] Date/Time: 9/29/07 0758

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY
Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

December 26, 2007

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07100295 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 10/18/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07100295-001	DewBurdBVC04	10/17/07 12:15	10/18/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07100295-002	DewBurdCHR01	10/17/07 14:00	10/18/07	Aqueous	Same As Above
R07100295-003	DewBurdBVC01	10/17/07 14:45	10/18/07	Aqueous	Same As Above
R07100295-004	DewBurdCHR05`	10/17/07 16:00	10/18/07	Aqueous	Same As Above

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-001
Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
Collection Date: 10/17/07 12:15
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	62	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	166	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Bicarbonate as HCO3	202	mg/L		5		1	A2320 B	10/29/07 14:30/sn
Calcium	382	mg/L		1		10	E200.7	11/02/07 16:19/eli-c
Chloride	1540	mg/L	D	4		100	E300.0	10/24/07 15:25/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	10/19/07 23:54/jmh
Magnesium	210	mg/L		1		10	E200.7	11/02/07 16:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 16:58/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/19/07 23:54/jmh
Potassium	9	mg/L		1		1	E200.7	11/02/07 17:01/eli-c
Silica	2	mg/L		1		1	E200.7	11/02/07 17:01/eli-c
Sodium	1160	mg/L	D	8		10	E200.7	11/02/07 16:19/eli-c
Sulfate	2670	mg/L	D	70		100	E300.0	10/24/07 15:25/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7130	umhos/cm		5		1	A2510 B	10/31/07 16:15/jmh
pH	7.94	s.u.		0.01		1	A4500-H B	10/24/07 12:29/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	5820	mg/L		5		1	D3977	10/26/07 16:12/sn
Solids, Total Dissolved TDS @ 180 C	5800	mg/L		5		1	A2540 C	10/19/07 14:07/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	10/24/07 14:45/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	11/02/07 17:01/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 03:53/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/02/07 17:01/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 03:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-001
Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
Collection Date: 10/17/07 12:15
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 03:53/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 03:53/eli-c
Uranium	0.0230	mg/L		0.0003		1	E200.8	10/24/07 03:53/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 03:53/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 03:53/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	10/29/07 18:26/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/29/07 18:26/eli-c
METALS - TOTAL								
Aluminum	0.6	mg/L		0.1		1	E200.8	10/24/07 14:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/24/07 14:12/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 14:12/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	11/02/07 17:14/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 14:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/24/07 14:12/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 14:12/eli-c
Iron	0.39	mg/L		0.03		1	E200.7	11/02/07 17:14/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 14:12/eli-c
Manganese	0.18	mg/L		0.01		1	E200.8	10/24/07 14:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 14:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 14:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/24/07 14:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 14:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 14:12/eli-c
Uranium	0.0239	mg/L		0.0003		1	E200.8	10/24/07 14:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 14:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 14:12/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:45/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:17/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-001
Client Sample ID: DewBurdBVC04

Report Date: 12/26/07
Collection Date: 10/17/07 12:15
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/01/07 08:25/eli-c
Polonium 210	3.0	pCi/L		1.0		1	RMO-3008	11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	11/16/07 13:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0	11/05/07 08:58/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/05/07 08:58/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	11/07/07 16:49/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	26.6	pCi/L		1.0		1	E900.0	11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Beta	14.0	pCi/L		2.0		1	E900.0	11/09/07 13:02/eli-c
Gross Beta precision (±)	14.1	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/23/07 19:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-4.07	%				1	A1030 E	12/16/07 15:29/eli-c
Anions	94.5	meq/L				1	A1030 E	12/16/07 15:29/eli-c
Cations	87.1	meq/L				1	A1030 E	12/16/07 15:29/eli-c
Solids, Total Dissolved Calculated	5700	mg/L				1	A1030 E	12/16/07 15:29/eli-c
TDS Balance (0.80 - 1.20)	1.01	dec. %				1	A1030 E	12/16/07 15:29/eli-c

- Ion Balance achieved using Sulfate from E200.7.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-002
Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
Collection Date: 10/17/07 14:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	320	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Bicarbonate as HCO3	390	mg/L		5		1	A2320 B	10/29/07 14:34/sn
Calcium	398	mg/L		1		10	E200.7	11/02/07 16:22/eli-c
Chloride	166	mg/L		1		20	E300.0	10/20/07 00:10/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/20/07 00:25/jmh
Magnesium	189	mg/L		1		10	E200.7	11/02/07 16:22/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 16:59/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 00:25/jmh
Potassium	15	mg/L		1		1	E200.7	11/02/07 17:05/eli-c
Silica	13	mg/L		1		1	E200.7	11/02/07 17:05/eli-c
Sodium	1360	mg/L	D	8		10	E200.7	11/02/07 16:22/eli-c
Sulfate	4060	mg/L	D	70		100	E300.0	10/24/07 15:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6940	umhos/cm		5		1	A2510 B	10/31/07 16:16/jmh
pH	7.57	s.u.		0.01		1	A4500-H B	10/24/07 12:30/jmh
Sodium Adsorption Ratio (SAR)	14	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	6170	mg/L		5		1	D3977	10/26/07 16:13/sn
Solids, Total Dissolved TDS @ 180 C	6500	mg/L		5		1	A2540 C	10/19/07 14:07/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	10/24/07 14:45/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:05/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:00/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	11/02/07 17:05/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Manganese	2.75	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-002
Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
Collection Date: 10/17/07 14:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 04:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 04:00/eli-c
Uranium	0.0308	mg/L		0.0003		1	E200.8	10/24/07 04:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 04:00/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 04:00/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	10/29/07 18:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/29/07 18:56/eli-c
METALS - TOTAL								
Aluminum	0.6	mg/L		0.1		1	E200.8	10/24/07 14:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	10/24/07 14:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 14:19/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	11/02/07 17:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 14:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/24/07 14:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 14:19/eli-c
Iron	0.95	mg/L		0.03		1	E200.7	11/02/07 17:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 14:19/eli-c
Manganese	2.94	mg/L		0.01		1	E200.8	10/24/07 14:19/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 14:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 14:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/24/07 14:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 14:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 14:19/eli-c
Uranium	0.0320	mg/L		0.0003		1	E200.8	10/24/07 14:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 14:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 14:19/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:19/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-002
Client Sample ID: DewBurdCHR01

Report Date: 12/26/07
Collection Date: 10/17/07 14:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:56/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	3.2	pCi/L		1.0		1	E909.0M	11/01/07 08:25/eli-c
Lead 210 precision (±)	0.80	pCi/L				1	E909.0M	11/01/07 08:25/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	11/16/07 13:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0	11/05/07 09:59/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/05/07 09:59/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	11/07/07 16:49/eli-c
Thorium 230	0.9	pCi/L		0.2		1	E907.0	10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	34.2	pCi/L		1.0		1	E900.0	11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.7	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Beta	21.3	pCi/L		2.0		1	E900.0	11/09/07 13:02/eli-c
Gross Beta precision (±)	14.2	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Gamma	1070	pCi/L		20.0		1	E901.1	10/23/07 19:30/eli-c
Gross Gamma precision (±)	170	pCi/L				1	E901.1	10/23/07 19:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.301	%				1	A1030 E	12/16/07 15:37/eli-c
Anions	95.6	meq/L				1	A1030 E	12/16/07 15:37/eli-c
Cations	95.0	meq/L				1	A1030 E	12/16/07 15:37/eli-c
Solids, Total Dissolved Calculated	6370	mg/L				1	A1030 E	12/16/07 15:37/eli-c
TDS Balance (0.80 - 1.20)	1.03	dec. %				1	A1030 E	12/16/07 15:37/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-003
Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
Collection Date: 10/17/07 14:45
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	76	CFU/100ml	D	2		2	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	112	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Bicarbonate as HCO3	137	mg/L		5		1	A2320 B	10/29/07 14:35/sn
Calcium	314	mg/L		1		10	E200.7	11/02/07 16:25/eli-c
Chloride	852	mg/L	D	2		50	E300.0	10/24/07 15:57/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	10/20/07 00:57/jmh
Magnesium	141	mg/L		1		10	E200.7	11/02/07 16:25/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 17:01/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 00:57/jmh
Potassium	15	mg/L		1		1	E200.7	11/02/07 17:08/eli-c
Silica	ND	mg/L		1		1	E200.7	11/02/07 17:08/eli-c
Sodium	950	mg/L	D	8		10	E200.7	11/02/07 16:25/eli-c
Sulfate	2180	mg/L	D	40		50	E300.0	10/24/07 15:57/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5750	umhos/cm		5		1	A2510 B	10/31/07 16:17/jmh
pH	7.84	s.u.		0.01		1	A4500-H B	10/24/07 12:31/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	4510	mg/L		5		1	D3977	10/26/07 16:13/sn
Solids, Total Dissolved TDS @ 180 C	4600	mg/L		5		1	A2540 C	10/19/07 14:08/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	10/24/07 14:46/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Iron	ND	mg/L		0.03		1	E200.7	11/02/07 17:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-003
Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
Collection Date: 10/17/07 14:45
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 04:06/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	10/24/07 04:06/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 04:06/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 04:06/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	10/29/07 19:03/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/29/07 19:03/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/24/07 14:26/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
Iron	0.13	mg/L		0.03		1	E200.7	11/02/07 17:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Manganese	0.16	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 14:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/24/07 14:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 14:26/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	10/24/07 14:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 14:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 14:26/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-003
Client Sample ID: DewBurdBVC01

Report Date: 12/26/07
Collection Date: 10/17/07 14:45
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:58/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/01/07 08:25/eli-c
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008	11/16/07 13:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	11/16/07 13:00/eli-c
Radium 226	0.3	pCi/L		0.2		1	E903.0	11/05/07 10:59/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/05/07 10:59/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	11/07/07 16:49/eli-c
Thorium 230	0.7	pCi/L		0.2		1	E907.0	10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	12.0	pCi/L		1.0		1	E900.0	11/09/07 13:02/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Beta	2.7	pCi/L		2.0		1	E900.0	11/09/07 13:02/eli-c
Gross Beta precision (±)	7.0	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	10/23/07 19:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.92	%				1	A1030 E	12/16/07 15:37/eli-c
Anions	71.6	meq/L				1	A1030 E	12/16/07 15:37/eli-c
Cations	68.9	meq/L				1	A1030 E	12/16/07 15:37/eli-c
Solids, Total Dissolved Calculated	4520	mg/L				1	A1030 E	12/16/07 15:37/eli-c
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	12/16/07 15:37/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-004
Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
Collection Date: 10/17/07 16:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	200	CFU/100ml	D	10		10	A9222 D	10/18/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	352	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Bicarbonate as HCO3	429	mg/L		5		1	A2320 B	10/29/07 14:38/sn
Calcium	492	mg/L		1		10	E200.7	11/02/07 16:45/eli-c
Chloride	269	mg/L		1		20	E300.0	10/20/07 01:13/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	10/20/07 01:29/jmh
Magnesium	380	mg/L		1		10	E200.7	11/02/07 16:45/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	10/25/07 17:02/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	10/20/07 01:29/jmh
Potassium	18	mg/L		1		1	E200.7	11/02/07 17:11/eli-c
Silica	10	mg/L		1		1	E200.7	11/02/07 17:11/eli-c
Sodium	1020	mg/L	D	8		10	E200.7	11/02/07 16:45/eli-c
Sulfate	4060	mg/L	D	40		50	E300.0	10/24/07 16:13/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6910	umhos/cm		5		1	A2510 B	10/31/07 16:18/jmh
pH	7.74	s.u.		0.01		1	A4500-H B	10/24/07 12:32/jmh
Sodium Adsorption Ratio (SAR)	8.4	unitless		0.10		1	Calculation	11/05/07 10:15/eli-c
Solids, Suspended Sediment SSC @ 105 C	7040	mg/L		5		1	D3977	10/26/07 16:14/sn
Solids, Total Dissolved TDS @ 180 C	7200	mg/L		5		1	A2540 C	10/19/07 14:08/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	10/24/07 14:46/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	11/02/07 17:11/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 04:13/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Iron	0.15	mg/L		0.03		1	E200.7	11/02/07 17:11/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Manganese	1.53	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 04:13/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-004
Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
Collection Date: 10/17/07 16:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 04:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 04:13/eli-c
Uranium	0.0368	mg/L		0.0003		1	E200.8	10/24/07 04:13/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 04:13/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 04:13/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	10/29/07 19:11/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	10/29/07 19:11/eli-c
METALS - TOTAL								
Aluminum	0.2	mg/L		0.1		1	E200.8	10/24/07 14:33/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	10/24/07 14:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	10/24/07 14:33/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	11/02/07 17:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	10/24/07 14:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	10/24/07 14:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	10/18/07 09:30/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 15:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	10/24/07 14:33/eli-c
Iron	0.84	mg/L		0.03		1	E200.7	11/02/07 17:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	10/24/07 14:33/eli-c
Manganese	1.69	mg/L		0.01		1	E200.8	10/24/07 14:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	10/24/07 14:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	10/24/07 14:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	10/24/07 14:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	10/24/07 14:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	10/24/07 14:33/eli-c
Uranium	0.0378	mg/L		0.0003		1	E200.8	10/24/07 14:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	10/24/07 14:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	10/24/07 14:33/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 11:51/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07100295-004
Client Sample ID: DewBurdCHR05`

Report Date: 12/26/07
Collection Date: 10/17/07 16:00
Date Received: 10/18/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/02/07 12:00/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	10/31/07 10:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	10/31/07 10:30/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	6.6	pCi/L		1.0		1	E909.0M	11/01/07 08:25/eli-c
Lead 210 precision (±)	1.1	pCi/L				1	E909.0M	11/01/07 08:25/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/16/07 13:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	11/05/07 12:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/02/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.0	pCi/L		1.0		1	E909.0M	11/09/07 09:45/eli-c
Lead 210 precision (±)	1.2	pCi/L				1	E909.0M	11/09/07 09:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/06/07 13:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	11/07/07 16:49/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0	10/31/07 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	10/31/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	23.2	pCi/L		1.0		1	E900.0	11/09/07 13:02/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Beta	11.1	pCi/L		2.0		1	E900.0	11/09/07 13:02/eli-c
Gross Beta precision (±)	14.0	pCi/L				1	E900.0	11/09/07 13:02/eli-c
Gross Gamma	1140	pCi/L		20.0		1	E901.1	10/23/07 19:30/eli-c
Gross Gamma precision (±)	191	pCi/L				1	E901.1	10/23/07 19:30/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.765	%				1	A1030 E	12/16/07 15:38/eli-c
Anions	99.1	meq/L				1	A1030 E	12/16/07 15:38/eli-c
Cations	101	meq/L				1	A1030 E	12/16/07 15:38/eli-c
Solids, Total Dissolved Calculated	6450	mg/L				1	A1030 E	12/16/07 15:38/eli-c
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	12/16/07 15:38/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071029A-ALK-SEL-W	
Sample ID: MBLK1_071029A	Method Blank				Run: PH_COND1-R_071029A			10/29/07 12:12	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_071029A	Laboratory Control Sample				Run: PH_COND1-R_071029A			10/29/07 12:15	
Alkalinity, Total as CaCO3	980	mg/L	5.0	98	90	110			
Sample ID: R07100248-008AMS	Sample Matrix Spike				Run: PH_COND1-R_071029A			10/29/07 13:24	
Alkalinity, Total as CaCO3	300	mg/L	5.0	87	80	120			
Sample ID: R07100248-008AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_071029A			10/29/07 13:26	
Alkalinity, Total as CaCO3	330	mg/L	5.0	108	80	120	7.0	20	
Method: A2510 B								Batch: 071031_1_COND-PROBE-W	
Sample ID: LCS1-1_071031	Laboratory Control Sample				Run: PH_COND2-R_071031A			10/31/07 16:09	
Conductivity @ 25 C	149	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_071031	Laboratory Control Sample				Run: PH_COND2-R_071031A			10/31/07 16:11	
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071031	Laboratory Control Sample				Run: PH_COND2-R_071031A			10/31/07 16:12	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071031	Method Blank				Run: PH_COND2-R_071031A			10/31/07 16:12	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 071019A-SLDS-TDS-W	
Sample ID: LCS1_071019A	Laboratory Control Sample				Run: BAL-4-R_071019A			10/19/07 13:47	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			
Sample ID: MBLK1_071019A	Method Blank				Run: BAL-4-R_071019A			10/19/07 13:48	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07100268-002AMS	Sample Matrix Spike				Run: BAL-4-R_071019A			10/19/07 14:01	
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	101	80	120			
Sample ID: R07100268-002AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071019A			10/19/07 14:01	
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	102	80	120	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071024A-SLDS-TSS-W	
Sample ID: MBLK1_071024A	Method Blank				Run: BAL-4-R_071024A				10/24/07 14:41
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071024A	Laboratory Control Sample				Run: BAL-4-R_071024A				10/24/07 14:42
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	90	85	115			
Method: A3114 B								Batch: C_SE3114-071102	
Sample ID: MBLK	Method Blank				Run: SUB-C92203				11/02/07 11:43
Selenium	ND	mg/L	0.0004						
Sample ID: R07100295-003H	Sample Matrix Spike				Run: SUB-C92203				11/02/07 12:10
Selenium	0.049	mg/L	0.0010	99	85	115			
Sample ID: R07100295-003H	Sample Matrix Spike Duplicate				Run: SUB-C92203				11/02/07 12:12
Selenium	0.048	mg/L	0.0010	95	85	115	3.6	10	
Sample ID: 301-105-5	Laboratory Control Sample				Run: SUB-C92203				11/02/07 12:15
Selenium	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B								Batch: C_SEIV3114-071031	
Sample ID: MBLK	Method Blank				Run: SUB-C92038				10/31/07 10:07
Selenium-IV	0.0009	mg/L	0.0002						
Sample ID: R07100295-001A	Sample Matrix Spike				Run: SUB-C92038				10/31/07 10:38
Selenium-IV	0.0445	mg/L	0.0010	87	85	115			
Sample ID: R07100295-001A	Sample Matrix Spike Duplicate				Run: SUB-C92038				10/31/07 10:40
Selenium-IV	0.0437	mg/L	0.0010	86	85	115	0.0	10	
Sample ID: 301-105-5	Laboratory Control Sample				Run: SUB-C92038				10/31/07 10:46
Selenium-IV	0.048	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B									Batch: 102207A
Sample ID: MBLK	Method Blank				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	0.19	mg/L	0.0050	97	80	120			
Sample ID: R07100295-001E	Sample Matrix Spike				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	0.18	mg/L	0.0050	92	80	120			
Sample ID: R07100295-002E	Sample Matrix Spike				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	0.18	mg/L	0.0050	92	80	120			
Sample ID: R07100295-003E	Sample Matrix Spike				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	0.21	mg/L	0.0050	105	80	120			
Sample ID: R07100295-004E	Sample Matrix Spike				Run: SPEC1_071018A				10/18/07 09:30
Chromium, Hexavalent	0.19	mg/L	0.0050	94	80	120			
Method: A4500-H B									Batch: 071024_1_PH-W
Sample ID: LCS_pH-1_071024	Laboratory Control Sample				Run: PH_COND2-R_071024A				10/24/07 12:28
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07100295-001CDUP	Sample Duplicate				Run: PH_COND2-R_071024A				10/24/07 12:29
pH	7.96	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G									Batch: A2007-10-25_2_NH3_01
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_071025A				10/25/07 14:34
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_071025A				10/25/07 14:37
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071025A				10/25/07 14:38
Nitrogen, Ammonia as N	0.25	mg/L	0.10	102	90	110			
Sample ID: R07100288-002BMS	Sample Matrix Spike				Run: TECHAA2-R_071025A				10/25/07 16:55
Nitrogen, Ammonia as N	0.21	mg/L	0.10	84	80	120			
Method: A9222 D									Batch: 071018-BCT-FCB-W-MF
Sample ID: MBLK	Method Blank				Run: MEMFILT_071018B				10/18/07 10:00
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_16587
Sample ID: MB-16587	Method Blank				Run: SUB-C92261				11/02/07 14:00
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	0.6	mg/L	0.5						
Sample ID: LCS-16587	Laboratory Control Sample				Run: SUB-C92261				11/02/07 14:22
Boron	0.50	mg/L	0.10	99	90	110			
Iron	0.51	mg/L	0.030	102	90	110			
Calcium	50	mg/L	0.50	100	90	110			
Magnesium	49	mg/L	0.50	97	90	110			
Potassium	51	mg/L	0.50	102	90	110			
Silica	0.51	mg/L	0.10	103	90	110			
Sodium	52	mg/L	0.53	104	90	110			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R92261
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C92261				11/02/07 12:18
Silica	1.9	mg/L	0.10	97	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C92261				11/02/07 12:21
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	97	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	25	mg/L	0.76	100	85	125			
Sample ID: C07101077-002GMS	Sample Matrix Spike				Run: SUB-C92261				11/02/07 17:51
Boron	0.897	mg/L	0.10	87	70	130			
Iron	0.883	mg/L	0.030	88	70	130			
Calcium	43.6	mg/L	0.50	82	70	130			
Magnesium	42.1	mg/L	0.50	84	70	130			
Potassium	113	mg/L	0.50	94	70	130			
Sodium	47.3	mg/L	0.76	83	70	130			
Sample ID: C07101077-002GMSD	Sample Matrix Spike Duplicate				Run: SUB-C92261				11/02/07 17:54
Boron	0.933	mg/L	0.10	91	70	130	3.9	20	
Iron	0.904	mg/L	0.030	90	70	130	2.4	20	
Calcium	44.0	mg/L	0.50	83	70	130	0.9	20	
Magnesium	41.8	mg/L	0.50	83	70	130	0.7	20	
Potassium	113	mg/L	0.50	94	70	130	0.2	20	
Sodium	48.0	mg/L	0.76	84	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16587
Sample ID: MB-16587	Method Blank				Run: SUB-C91806				10/24/07 13:45
Aluminum	0.0003	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	7E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	4E-05	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Selenium	ND	mg/L	0.0002						
Silver	0.0001	mg/L	4E-05						
Thorium 232	9E-05	mg/L	7E-05						
Uranium	5E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-16587	Laboratory Control Sample				Run: SUB-C91806				10/24/07 13:52
Aluminum	0.0214	mg/L	0.10	106	80	120			
Arsenic	0.0189	mg/L	0.0010	95	80	120			
Barium	0.0204	mg/L	0.10	102	80	120			
Cadmium	0.0206	mg/L	0.010	103	80	120			
Chromium	0.0197	mg/L	0.050	98	80	120			
Copper	0.0200	mg/L	0.010	100	80	120			
Lead	0.0202	mg/L	0.050	101	80	120			
Manganese	0.0197	mg/L	0.010	98	80	120			
Molybdenum	0.0211	mg/L	0.10	106	80	120			
Nickel	0.0200	mg/L	0.050	100	80	120			
Selenium	0.0992	mg/L	0.0010	99	80	120			
Silver	0.0185	mg/L	0.010	92	80	120			
Thorium 232	0.0176	mg/L	0.0010	87	80	120			
Uranium	0.0201	mg/L	0.00030	100	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Zinc	0.0227	mg/L	0.010	104	80	120			
Sample ID: LCS-16587	Laboratory Control Sample				Run: SUB-C91806				10/24/07 13:59
Aluminum	0.508	mg/L	0.10	102	85	115			
Arsenic	0.500	mg/L	0.0010	100	85	115			
Barium	0.503	mg/L	0.10	101	85	115			
Cadmium	0.510	mg/L	0.010	102	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16587
Sample ID: LCS-16587	Laboratory Control Sample				Run: SUB-C91806				10/24/07 13:59
Chromium	0.499	mg/L	0.050	100	85	115			
Copper	0.486	mg/L	0.010	97	85	115			
Lead	0.504	mg/L	0.050	101	85	115			
Manganese	0.501	mg/L	0.010	100	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.492	mg/L	0.050	98	85	115			
Selenium	0.510	mg/L	0.0020	102	85	115			
Silver	0.220	mg/L	0.010	110	85	115			
Uranium	0.512	mg/L	0.00032	102	85	115			
Vanadium	0.494	mg/L	0.10	99	85	115			
Zinc	0.512	mg/L	0.010	102	85	115			
Sample ID: C07101148-002B MS4	Post Digestion Spike				Run: SUB-C91806				10/24/07 15:19
Aluminum	15.2	mg/L	0.10		70	130			A
Arsenic	0.0688	mg/L	0.0010	97	70	130			
Barium	0.0840	mg/L	0.10	104	70	130			
Cadmium	0.0899	mg/L	0.010	92	70	130			
Chromium	0.0705	mg/L	0.050	90	70	130			
Copper	2.34	mg/L	0.010		70	130			A
Lead	0.0869	mg/L	0.050	101	70	130			
Mercury	0.00610	mg/L	0.0010	87	70	130			
Molybdenum	0.0745	mg/L	0.10	106	70	130			
Nickel	0.357	mg/L	0.050		70	130			A
Selenium	0.143	mg/L	0.0010	94	70	130			
Silver	0.0328	mg/L	0.010	82	70	130			
Thorium 232	0.0800	mg/L	0.0010	112	70	130			
Uranium	0.163	mg/L	0.00030	103	70	130			
Vanadium	0.0647	mg/L	0.10	92	70	130			
Sample ID: C07101148-002B MSD4	Post Digestion Spike Duplicate				Run: SUB-C91806				10/24/07 15:25
Aluminum	15.4	mg/L	0.10		70	130	1.2	20	A
Arsenic	0.0687	mg/L	0.0010	96	70	130	0.1	20	
Barium	0.0827	mg/L	0.10	102	70	130	0.0	20	
Cadmium	0.0896	mg/L	0.010	92	70	130	0.3	20	
Chromium	0.0707	mg/L	0.050	90	70	130	0.2	20	
Copper	2.35	mg/L	0.010		70	130	0.4	20	A
Lead	0.0867	mg/L	0.050	101	70	130	0.2	20	
Mercury	0.00616	mg/L	0.0010	87	70	130	0.9	20	
Molybdenum	0.0738	mg/L	0.10	105	70	130	0.0	20	
Nickel	0.360	mg/L	0.050		70	130	0.8	20	A
Selenium	0.144	mg/L	0.0010	94	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16587
Sample ID: C07101148-002B MSD4	Post Digestion Spike Duplicate				Run: SUB-C91806			10/24/07 15:25	
Silver	0.0340	mg/L	0.010	85	70	130	3.6	20	
Thorium 232	0.0796	mg/L	0.0010	111	70	130	0.5	20	
Uranium	0.163	mg/L	0.00030	102	70	130	0.2	20	
Vanadium	0.0646	mg/L	0.10	92	70	130	0.0	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R91742
Sample ID: LRB	Method Blank				Run: SUB-C91742				10/23/07 12:36
Aluminum	ND	mg/L	0.0001						
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	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	6E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.0005	mg/L	3E-05						
Thorium 232	0.0004	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C91742				10/23/07 12:43
Aluminum	0.0480	mg/L	0.0010	96	85	115			
Arsenic	0.0509	mg/L	0.0010	102	85	115			
Barium	0.0499	mg/L	0.0010	100	85	115			
Cadmium	0.0499	mg/L	0.0010	100	85	115			
Chromium	0.0523	mg/L	0.0010	104	85	115			
Copper	0.0510	mg/L	0.0010	102	85	115			
Lead	0.0500	mg/L	0.0010	100	85	115			
Manganese	0.0484	mg/L	0.0010	97	85	115			
Mercury	0.00505	mg/L	0.0010	101	85	115			
Molybdenum	0.0492	mg/L	0.0010	98	85	115			
Nickel	0.0509	mg/L	0.0010	102	85	115			
Silver	0.0199	mg/L	0.0010	97	85	115			
Thorium 232	0.0480	mg/L	0.0010	95	85	115			
Uranium	0.0493	mg/L	0.00030	99	85	115			
Vanadium	0.0490	mg/L	0.0010	98	85	115			
Zinc	0.0544	mg/L	0.0010	105	85	115			
Sample ID: C07101077-002GMS4	Post Digestion Spike				Run: SUB-C91742				10/24/07 02:59
Aluminum	0.0618	mg/L	0.10	101	70	130			
Arsenic	0.0510	mg/L	0.0010	101	70	130			
Barium	0.0743	mg/L	0.10	97	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0482	mg/L	0.050	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R91742
Sample ID: C07101077-002GMS4	Post Digestion Spike				Run: SUB-C91742				10/24/07 02:59
Copper	0.0536	mg/L	0.010	101	70	130			
Lead	0.0492	mg/L	0.050	97	70	130			
Manganese	0.0485	mg/L	0.010	96	70	130			
Mercury	0.00495	mg/L	0.0010	99	70	130			
Molybdenum	0.0480	mg/L	0.10	96	70	130			
Nickel	0.0497	mg/L	0.050	99	70	130			
Silver	0.0201	mg/L	0.010	100	70	130			
Uranium	0.0493	mg/L	0.00030	99	70	130			
Vanadium	0.0492	mg/L	0.10	98	70	130			
Zinc	0.0565	mg/L	0.010	104	70	130			
Sample ID: C07101077-002GMSD4	Post Digestion Spike Duplicate				Run: SUB-C91742				10/24/07 03:06
Aluminum	0.0622	mg/L	0.10	102	70	130	0.0	20	
Arsenic	0.0513	mg/L	0.0010	102	70	130	0.6	20	
Barium	0.0742	mg/L	0.10	96	70	130	0.0	20	
Cadmium	0.0491	mg/L	0.010	98	70	130	0.4	20	
Chromium	0.0481	mg/L	0.050	96	70	130	0.0	20	
Copper	0.0530	mg/L	0.010	100	70	130	1.2	20	
Lead	0.0495	mg/L	0.050	98	70	130	0.0	20	
Manganese	0.0483	mg/L	0.010	96	70	130	0.4	20	
Mercury	0.00491	mg/L	0.0010	98	70	130	0.8	20	
Molybdenum	0.0485	mg/L	0.10	97	70	130	0.0	20	
Nickel	0.0497	mg/L	0.050	99	70	130	0.0	20	
Silver	0.0204	mg/L	0.010	102	70	130	1.9	20	
Uranium	0.0491	mg/L	0.00030	98	70	130	0.5	20	
Vanadium	0.0491	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0564	mg/L	0.010	104	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R92030
Sample ID: LRB	Method Blank				Run: SUB-C92030				10/29/07 12:19
Thorium 232	0.0002	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C92030				10/29/07 12:27
Thorium 232	0.0492	mg/L	0.0010	98	85	115			
Uranium	0.0484	mg/L	0.00030	96	85	115			
Sample ID: R07100295-004K	Post Digestion Spike				Run: SUB-C92030				10/29/07 19:18
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0512	mg/L	0.00030	102	70	130			
Sample ID: R07100295-004K	Post Digestion Spike Duplicate				Run: SUB-C92030				10/29/07 19:26
Thorium 232	0.0532	mg/L	0.0010	106	70	130	4.8	20	
Uranium	0.0534	mg/L	0.00030	107	70	130	4.3	20	
Method: E300.0									Batch: R31901
Sample ID: LFB0710193552-3	Laboratory Fortified Blank				Run: DIONEX_071019A				10/19/07 18:51
Chloride	4.63	mg/L	0.50	93	90	110			
Fluoride	1.90	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sample ID: LFB0710193552-4	Laboratory Fortified Blank				Run: DIONEX_071019A				10/19/07 19:07
Chloride	4.79	mg/L	0.50	96	90	110			
Fluoride	1.96	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Sample ID: R07100288-004AMS	Sample Matrix Spike				Run: DIONEX_071019A				10/19/07 22:50
Chloride	138	mg/L	0.80	88	80	120			
Fluoride	39.2	mg/L	1.3	98	80	120			
Nitrogen, Nitrate as N	66.0	mg/L	0.34	95	80	120			
Sample ID: R07100288-004AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071019A				10/19/07 23:06
Chloride	137	mg/L	0.80	87	80	120	0.6	10	
Fluoride	38.0	mg/L	1.3	95	80	120	3.1	10	
Nitrogen, Nitrate as N	65.2	mg/L	0.34	93	80	120	1.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R31939
Sample ID: LFB0710231832-3	Laboratory Fortified Blank				Run: DIONEX_071023A				10/23/07 21:07
Chloride	4.91	mg/L	0.50	98	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0710231832-4	Laboratory Fortified Blank				Run: DIONEX_071023A				10/23/07 21:23
Chloride	4.76	mg/L	0.50	95	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Method: E900.0									Batch: C_GrAB-0348
Sample ID: UNAT-GRAB-0348	Laboratory Control Sample				Run: SUB-C92747				11/09/07 00:50
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: CS-137-GRAB-0348	Laboratory Control Sample				Run: SUB-C92747				11/09/07 00:50
Gross Beta	90	pCi/L	2.0	91	70	130			
Sample ID: MB-GrAB-0348	Method Blank				Run: SUB-C92747				11/09/07 00:50
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: C07101187-001DMS	Sample Matrix Spike				Run: SUB-C92747				11/09/07 00:50
Gross Alpha	200	pCi/L	1.0	85	70	130			
Sample ID: C07101187-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C92747				11/09/07 00:50
Gross Alpha	200	pCi/L	1.0	90	70	130	5.5	13.5	
Sample ID: C07101187-001DMS	Sample Matrix Spike				Run: SUB-C92747				11/09/07 00:50
Gross Beta	90	pCi/L	2.0	96	70	130			
Sample ID: C07101187-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C92747				11/09/07 00:50
Gross Beta	100	pCi/L	2.0	100	70	130	66	15.5	R

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R91797
Sample ID: LCS-R91797	Laboratory Control Sample				Run: SUB-C91797				10/23/07 19:30
Americium 241	737	pCi/L	20	90	70	130			
Cesium 137	1140	pCi/L	20	81	70	130			
Sample ID: MB-R91797	Method Blank				Run: SUB-C91797				10/23/07 19:30
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07100295-004I	Sample Duplicate				Run: SUB-C91797				10/23/07 19:30
Gross Gamma	1030	pCi/L	20				10	30	
Method: E903.0									Batch: C_16622
Sample ID: C07101118-002AMS	Sample Matrix Spike				Run: SUB-C92505				11/07/07 14:09
Radium 226	2.0	pCi/g-dry	0.49	94	70	130			
Sample ID: C07101118-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C92505				11/07/07 14:09
Radium 226	2.0	pCi/g-dry	0.49	95	70	130	0.1	26.8	
Sample ID: LCS-16622	Laboratory Control Sample				Run: SUB-C92521				11/07/07 16:49
Radium 226	62	pCi/L	0.20	99	70	130			
Sample ID: MB-16622	Method Blank				Run: SUB-C92521				11/07/07 16:49
Radium 226	ND	pCi/L	0.004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-2398	
Sample ID: C07101080-001AMS	Sample Matrix Spike				Run: SUB-C92350			11/05/07 04:57	
Radium 226	20	pCi/L	0.20	84	70	130			
Sample ID: C07101080-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C92350			11/05/07 05:57	
Radium 226	22	pCi/L	0.20	93	70	130	9.0	27.5	
Sample ID: MB-RA226-2398	Method Blank				Run: SUB-C92350			11/05/07 20:03	
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2398	Laboratory Control Sample				Run: SUB-C92350			11/05/07 21:03	
Radium 226	12	pCi/L	0.20	91	70	130			
Method: E907.0								Batch: C_16622	
Sample ID: LCS-16622	Laboratory Control Sample				Run: SUB-C92439			10/31/07 15:00	
Thorium 230	5.70	pCi/g-dry	0.10	97	70	130			
Sample ID: MB-16622	Method Blank				Run: SUB-C92439			10/31/07 15:00	
Thorium 230	ND	pCi/g-dry	0.0002						
Sample ID: C07100792-013BMS	Sample Matrix Spike				Run: SUB-C92755			11/05/07 15:00	
Thorium 230	3.25	pCi/g-dry	0.10	96	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate				Run: SUB-C92755			11/05/07 15:00	
Thorium 230	3.39	pCi/g-dry	0.10	100	70	130	4.3	30	
Method: E907.0								Batch: C_R92458	
Sample ID: LCS-R92458	Laboratory Control Sample				Run: SUB-C92458			11/02/07 15:00	
Thorium 230	6.70	pCi/L	0.20	114	70	130			
Sample ID: C07101240-001FMS	Sample Matrix Spike				Run: SUB-C92458			11/02/07 15:00	
Thorium 230	58.1	pCi/L	0.20	100	70	130			
Sample ID: C07101240-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C92458			11/02/07 15:00	
Thorium 230	58.5	pCi/L	0.20	100	70	130	0.7	30	
Sample ID: MB-R92458	Method Blank				Run: SUB-C92458			11/02/07 15:00	
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M								Batch: C_16622	
Sample ID: C07100792-013BMS	Sample Matrix Spike				Run: SUB-C93065			11/09/07 09:45	
Lead 210	364	pCi/g-dry	0.10	91	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate				Run: SUB-C93065			11/09/07 09:45	
Lead 210	405	pCi/g-dry	0.10	101	70	130	11	30	
Sample ID: LCS-R93065	Laboratory Control Sample				Run: SUB-C93065			11/09/07 09:45	
Lead 210	88.5	pCi/g-dry	0.10	110	70	130			
Sample ID: MB-R93065	Method Blank				Run: SUB-C93065			11/09/07 09:45	
Lead 210	ND	pCi/g-dry	0.05						
Method: E909.0M								Batch: C_R92590	
Sample ID: C07101240-002FMS	Sample Matrix Spike				Run: SUB-C92590			11/01/07 08:25	
Lead 210	500	pCi/L	1.0	124	70	130			
Sample ID: C07101240-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C92590			11/01/07 08:25	
Lead 210	540	pCi/L	1.0	134	70	130	7.6	30	S
Sample ID: MB-R92590	Method Blank				Run: SUB-C92590			11/01/07 08:25	
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R92590	Laboratory Control Sample				Run: SUB-C92590			11/01/07 08:25	
Lead 210	95	pCi/L	1.0	118	70	130			
Method: RMO-3008								Batch: C_16622	
Sample ID: C07100792-013BMS	Sample Matrix Spike				Run: SUB-C92546			11/06/07 13:30	
Polonium 210	8.38	pCi/g-dry	0.10	77	70	130			
Sample ID: C07100792-013BMSD	Sample Matrix Spike Duplicate				Run: SUB-C92546			11/06/07 13:30	
Polonium 210	10.4	pCi/g-dry	0.10	94	70	130	22	30	
Sample ID: MB-R92546	Method Blank				Run: SUB-C92546			11/06/07 13:30	
Polonium 210	ND	pCi/L	1						
Sample ID: LCS-R92546	Laboratory Control Sample				Run: SUB-C92546			11/06/07 13:30	
Polonium 210	15	pCi/L	1.0	66	70	130			S

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 12/26/07
Work Order: R07100295

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R93240
Sample ID: R07100295-004J	Sample Matrix Spike				Run: SUB-C93240				11/16/07 13:00
Polonium 210	75	pCi/L	1.0	67	70	130			S
Sample ID: R07100295-004J	Sample Matrix Spike Duplicate				Run: SUB-C93240				11/16/07 13:00
Polonium 210	100	pCi/L	1.0	90	70	130	29	30	
Sample ID: LCS-R93240	Laboratory Control Sample				Run: SUB-C93240				11/16/07 13:00
Polonium 210	19	pCi/L	1.0	83	70	130			
Sample ID: MB-R93240	Method Blank				Run: SUB-C93240				11/16/07 13:00
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page____ of____

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: POWERTECH DEWEY BURDOCK

Report Mail Address:

Contact Name, Phone, Fax, E-mail: Cory.foreman@respec.com 605.394.6400

Sampler Name if other than Contact:

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other_____

EDD/EDT ☐ Format_____

ANALYSIS REQUESTED

As Per Quote (No Pb210 No Pb210)

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 5.1 °C

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Solids/Solids Vegetation Bioassay Other)	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID (LABORATORY USE ONLY)
1	DEWBURDBUC04	10/17/07	12:15	W				bottle set 4	R0710025
2	DEWBURDCHR01	10/17/07	14:00	W				bottle set 2	
3	DEWBURDBUC01	10/17/07	14:45	W				bottle set 1	
4	DEWBURDCHR05	10/17/07	16:00	W				bottle set 3	
5									
6									
7									
8									
9									
10									

Custody Record MUST be Signed

Relinquished by: Date/Time:

Relinquished by: [signature] Date/Time: 10/18/07 8:45

Shipped by:

Shipped by:

Received by: Date/Time:

Received by: [signature] Date/Time: 10/18/07 8:45

LABORATORY USE ONLY

Sample Disposal: Return to client: _____ Lab Disposal: _____

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

January 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110147 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/13/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110147-001	DewBurdSub02	11/12/07 12:50	11/13/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110147-002	DewBurdSub04	11/12/07 13:50	11/13/07	Aqueous	Same As Above
R07110147-003	DewBurdSub03	11/12/07 14:50	11/13/07	Aqueous	Same As Above
R07110147-004	DewBurdSub07	11/12/07 16:45	11/13/07	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-001
Client Sample ID: DewBurdSub02

Report Date: 01/29/08
Collection Date: 11/12/07 12:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	102	mg/L		5		1	A2320 B	11/26/07 16:19/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:19/sn
Bicarbonate as HCO3	124	mg/L		5		1	A2320 B	11/26/07 16:19/sn
Calcium	561	mg/L	D	1		10	E200.7	11/27/07 18:48/eli-c
Chloride	22	mg/L		1		5	E300.0	11/17/07 01:33/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/15/07 03:26/jmh
Magnesium	180	mg/L		0.5		1	E200.7	11/27/07 19:44/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:48/jmh
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	11/15/07 03:26/jmh
Potassium	21	mg/L		1		1	E200.7	11/27/07 19:44/eli-c
Silica	2.4	mg/L		0.5		1	E200.7	11/27/07 19:44/eli-c
Sodium	165	mg/L	D	0.8		1	E200.7	11/27/07 19:44/eli-c
Sulfate	2390	mg/L	D	40		50	E300.0	11/15/07 02:38/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3340	umhos/cm		5.0		1	A2510 B	11/16/07 18:22/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	11/16/07 14:24/jmh
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	11/14/07 17:18/jmh
Solids, Total Dissolved TDS @ 180 C	3900	mg/L		5		1	A2540 C	11/15/07 16:10/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	11/19/07 13:44/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/21/07 23:59/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 01:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:08/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	11/27/07 19:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 01:08/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
Iron	0.08	mg/L		0.03		1	E200.7	11/27/07 19:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/20/07 01:08/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:08/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-001
Client Sample ID: DewBurdSub02

Report Date: 01/29/08
Collection Date: 11/12/07 12:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:14/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:08/eli-c
Uranium	0.171	mg/L		0.0003		1	E200.8	11/20/07 01:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/20/07 01:08/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:22/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 04:22/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	11/27/07 19:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/20/07 22:09/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
Iron	0.23	mg/L		0.03		1	E200.7	11/27/07 19:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Manganese	0.02	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 22:09/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/20/07 22:09/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 22:09/eli-c
Uranium	0.162	mg/L		0.0003		1	E200.8	11/20/07 22:09/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 22:09/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/20/07 22:09/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	11/28/07 14:02/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:34/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-001
Client Sample ID: DewBurdSub02

Report Date: 01/29/08
Collection Date: 11/12/07 12:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	11/28/07 14:11/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:42/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	11/26/07 23:57/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/26/07 23:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 19:59/eli-c
Thorium 230	0.7	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	132	pCi/L		1.0		1	E900.0	12/04/07 04:33/eli-c
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	12/04/07 04:33/eli-c
Gross Beta	83.3	pCi/L		2.0		1	E900.0	12/04/07 04:33/eli-c
Gross Beta precision (±)	8.1	pCi/L				1	E900.0	12/04/07 04:33/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
Gross Gamma	1060	pCi/L		20.0		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	462	pCi/L				1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.86	%				1	A1030 E	12/16/07 16:28/eli-c
Anions	52.4	meq/L				1	A1030 E	12/16/07 16:28/eli-c
Cations	50.5	meq/L				1	A1030 E	12/16/07 16:28/eli-c
Solids, Total Dissolved Calculated	3400	mg/L				1	A1030 E	12/16/07 16:28/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-001
Client Sample ID: DewBurdSub02

Report Date: 01/29/08
Collection Date: 11/12/07 12:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.15	dec. %				1	A1030 E	12/16/07 16:28/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-002
Client Sample ID: DewBurdSub04

Report Date: 01/29/08
Collection Date: 11/12/07 13:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:20/sn
Calcium	201	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Chloride	18	mg/L		1		1	E300.0	11/15/07 03:58/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	11/15/07 03:58/jmh
Magnesium	99.5	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:49/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/15/07 03:58/jmh
Potassium	46	mg/L		1		1	E200.7	11/27/07 19:48/eli-c
Silica	16.2	mg/L		0.5		1	E200.7	11/27/07 19:48/eli-c
Sodium	17.1	mg/L	D	0.8		1	E200.7	11/27/07 19:48/eli-c
Sulfate	1200	mg/L	D	40		50	E300.0	11/15/07 03:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1650	umhos/cm		5.0		1	A2510 B	11/16/07 18:23/jmh
pH	4.65	s.u.		0.01		1	A4500-H B	11/16/07 14:27/jmh
Sodium Adsorption Ratio (SAR)	0.25	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	12	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	1700	mg/L		5		1	A2540 C	11/15/07 16:10/jmh
Solids, Total Suspended TSS @ 105 C	23	mg/L		5		1	A2540 D	11/19/07 13:45/jmh
METALS - DISSOLVED								
Aluminum	1.2	mg/L		0.1		10	E200.8	11/22/07 00:05/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c
Boron	0.1	mg/L		0.1		1	E200.7	11/27/07 19:48/eli-c
Cadmium	0.008	mg/L		0.005		1	E200.8	11/20/07 01:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Iron	1.48	mg/L		0.03		1	E200.7	11/27/07 19:48/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Manganese	20.4	mg/L		0.01		10	E200.8	11/22/07 00:05/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-002
Client Sample ID: DewBurdSub04

Report Date: 01/29/08
Collection Date: 11/12/07 13:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.43	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:41/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:28/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	11/20/07 01:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:28/eli-c
Zinc	0.37	mg/L		0.01		1	E200.8	11/20/07 01:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:28/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	11/21/07 04:28/eli-c
METALS - TOTAL								
Aluminum	1.5	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:35/eli-c
Cadmium	0.008	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	11/20/07 22:15/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
Iron	3.73	mg/L		0.03		1	E200.7	11/27/07 19:35/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Manganese	21.3	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/20/07 22:15/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Nickel	0.44	mg/L		0.05		10	E200.8	11/20/07 22:15/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/20/07 22:15/eli-c
Uranium	0.0024	mg/L		0.0003		10	E200.8	11/20/07 22:15/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/20/07 22:15/eli-c
Zinc	0.41	mg/L		0.01		10	E200.8	11/20/07 22:15/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:36/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-002
Client Sample ID: DewBurdSub04

Report Date: 01/29/08
Collection Date: 11/12/07 13:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:13/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	3.4	pCi/L		0.2		1	E903.0	11/27/07 00:57/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	11/27/07 00:57/eli-c
Thorium 230	0.9	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 20:59/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	13.6	pCi/L		1.0		1	E900.0	12/04/07 04:33/eli-c
Gross Alpha precision (±)	1.7	pCi/L				1	E900.0	12/04/07 04:33/eli-c
Gross Beta	51.3	pCi/L		2.0		1	E900.0	12/04/07 04:33/eli-c
Gross Beta precision (±)	4.2	pCi/L				1	E900.0	12/04/07 04:33/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	3.4	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	2.0	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	3.5	pCi/L		0.2		1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.902	%				1	A1030 E	12/16/07 16:29/eli-c
Anions	22.3	meq/L				1	A1030 E	12/16/07 16:29/eli-c
Cations	21.9	meq/L				1	A1030 E	12/16/07 16:29/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-002
Client Sample ID: DewBurdSub04

Report Date: 01/29/08
Collection Date: 11/12/07 13:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	1450	mg/L				1	A1030 E	12/16/07 16:29/eli-c
TDS Balance (0.80 - 1.20)	1.18	dec. %				1	A1030 E	12/16/07 16:29/eli-c
- Ion Balance achieved using Sulfate from E200.7.								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-003
Client Sample ID: DewBurdSub03

Report Date: 01/29/08
Collection Date: 11/12/07 14:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:21/sn
Calcium	128	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Chloride	9	mg/L		1		1	E300.0	11/15/07 04:30/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/15/07 04:30/jmh
Magnesium	53.4	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	11/13/07 17:50/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/15/07 04:30/jmh
Potassium	35	mg/L		1		1	E200.7	11/27/07 19:51/eli-c
Silica	7.5	mg/L		0.5		1	E200.7	11/27/07 19:51/eli-c
Sodium	8.2	mg/L	D	0.8		1	E200.7	11/27/07 19:51/eli-c
Sulfate	699	mg/L	D	40		50	E300.0	11/15/07 04:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1080	umhos/cm		5.0		1	A2510 B	11/16/07 18:24/jmh
pH	4.58	s.u.		0.01		1	A4500-H B	11/16/07 14:28/jmh
Sodium Adsorption Ratio (SAR)	0.15	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	970	mg/L		5		1	A2540 C	11/15/07 17:09/jmh
Solids, Total Suspended TSS @ 105 C	6	mg/L		5		1	A2540 D	11/19/07 13:46/jmh
METALS - DISSOLVED								
Aluminum	0.6	mg/L		0.1		10	E200.8	11/22/07 00:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 01:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Iron	0.12	mg/L		0.03		1	E200.7	11/27/07 19:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Manganese	11.6	mg/L		0.01		10	E200.8	11/22/07 00:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-003
Client Sample ID: DewBurdSub03

Report Date: 01/29/08
Collection Date: 11/12/07 14:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.23	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 12:48/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:35/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	11/20/07 01:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:35/eli-c
Zinc	0.16	mg/L		0.01		1	E200.8	11/20/07 01:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:35/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8	11/21/07 04:35/eli-c
METALS - TOTAL								
Aluminum	0.7	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:38/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	11/20/07 22:22/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
Iron	0.16	mg/L		0.03		1	E200.7	11/27/07 19:38/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Manganese	12.2	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/20/07 22:22/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Nickel	0.23	mg/L		0.05		10	E200.8	11/20/07 22:22/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/20/07 22:22/eli-c
Uranium	0.0014	mg/L		0.0003		10	E200.8	11/20/07 22:22/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/20/07 22:22/eli-c
Zinc	0.17	mg/L		0.01		10	E200.8	11/20/07 22:22/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:06/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-003
Client Sample ID: DewBurdSub03

Report Date: 01/29/08
Collection Date: 11/12/07 14:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:15/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	4.5	pCi/L		0.2		1	E903.0	11/27/07 01:57/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	11/27/07 01:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 22:00/eli-c
Thorium 230	1.3	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
Thorium 230 precision (±)	0.7	pCi/L				1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.6	pCi/L		1.0		1	E900.0	12/04/07 04:32/eli-c
Gross Alpha precision (±)	1.1	pCi/L				1	E900.0	12/04/07 04:32/eli-c
Gross Beta	38.8	pCi/L		2.0		1	E900.0	12/04/07 04:32/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	12/04/07 04:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	2.5	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	4.0	pCi/L		0.2		1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
Gross Gamma	1270	pCi/L		20.0		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	230	pCi/L				1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	0.0673	%				1	A1030 E	12/16/07 16:30/eli-c
Anions	12.9	meq/L				1	A1030 E	12/16/07 16:30/eli-c
Cations	12.9	meq/L				1	A1030 E	12/16/07 16:30/eli-c
Solids, Total Dissolved Calculated	851	mg/L				1	A1030 E	12/16/07 16:30/eli-c
TDS Balance (0.80 - 1.20)	1.14	dec. %				1	A1030 E	12/16/07 16:30/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-003
Client Sample ID: DewBurdSub03

Report Date: 01/29/08
Collection Date: 11/12/07 14:50
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By

DATA QUALITY

- Ion Balance achieved using Sulfate from E200.7.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-004
Client Sample ID: DewBurdSub07

Report Date: 01/29/08
Collection Date: 11/12/07 16:45
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/13/07 12:50/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	11/26/07 16:22/sn
Calcium	45.6	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Chloride	7	mg/L		1		1	E300.0	11/15/07 05:02/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/15/07 05:02/jmh
Magnesium	26.3	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Nitrogen, Ammonia as N	2.4	mg/L		0.1		4	A4500-NH3 G	11/13/07 18:09/jmh
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	11/15/07 05:02/jmh
Potassium	27	mg/L		1		1	E200.7	11/27/07 19:54/eli-c
Silica	ND	mg/L		0.5		1	E200.7	11/27/07 19:54/eli-c
Sodium	6.0	mg/L	D	0.8		1	E200.7	11/27/07 19:54/eli-c
Sulfate	357	mg/L	D	40		50	E300.0	11/15/07 04:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	610	umhos/cm		5.0		1	A2510 B	11/16/07 18:26/jmh
pH	4.12	s.u.		0.01		1	A4500-H B	11/16/07 14:29/jmh
Sodium Adsorption Ratio (SAR)	0.17	unitless		0.10		1	Calculation	12/16/07 16:13/eli-c
Solids, Suspended Sediment SSC @ 105 C	16	mg/L		5		1	D3977	11/14/07 17:19/jmh
Solids, Total Dissolved TDS @ 180 C	450	mg/L		5		1	A2540 C	11/15/07 17:09/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	11/19/07 13:47/jmh
METALS - DISSOLVED								
Aluminum	0.5	mg/L		0.1		10	E200.8	11/22/07 00:19/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/22/07 00:19/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 01:42/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	11/20/07 01:42/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
Iron	0.48	mg/L		0.03		1	E200.7	11/27/07 19:54/eli-c
Lead	0.004	mg/L		0.001		1	E200.8	11/20/07 01:42/eli-c
Manganese	5.54	mg/L		0.01		1	E200.8	11/20/07 01:42/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 01:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-004
Client Sample ID: DewBurdSub07

Report Date: 01/29/08
Collection Date: 11/12/07 16:45
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.12	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	11/26/07 13:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 01:42/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/20/07 01:42/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 01:42/eli-c
Zinc	0.14	mg/L		0.01		10	E200.8	11/22/07 00:19/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	11/21/07 04:41/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	11/21/07 04:41/eli-c
METALS - TOTAL								
Aluminum	0.6	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Boron	ND	mg/L		0.1		1	E200.7	11/27/07 19:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/20/07 22:43/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.02		5	A3500-Cr B	11/12/07 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/16/07 16:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
Iron	0.58	mg/L		0.03		1	E200.7	11/27/07 19:41/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Manganese	5.55	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/20/07 22:43/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Nickel	0.12	mg/L		0.05		1	E200.8	11/20/07 22:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/20/07 22:43/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	11/20/07 22:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/20/07 22:43/eli-c
Zinc	0.12	mg/L		0.01		1	E200.8	11/20/07 22:43/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:09/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-004
Client Sample ID: DewBurdSub07

Report Date: 01/29/08
Collection Date: 11/12/07 16:45
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	11/28/07 14:17/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	11/28/07 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	11/28/07 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.7	pCi/L		0.2		1	E903.0	11/27/07 02:58/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	11/27/07 02:58/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/03/07 04:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	11/26/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/02/07 23:00/eli-c
Thorium 230	0.9	pCi/L		0.2		1	E907.0	11/26/07 14:10/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	11/26/07 14:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.1	pCi/L		1.0		1	E900.0	12/04/07 04:32/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	12/04/07 04:32/eli-c
Gross Beta	25.8	pCi/L		2.0		1	E900.0	12/04/07 04:32/eli-c
Gross Beta precision (±)	1.8	pCi/L				1	E900.0	12/04/07 04:32/eli-c
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/21/07 07:30/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	11/20/07 13:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	11/20/07 13:30/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0	11/26/07 12:39/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	11/26/07 12:39/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/28/07 15:00/eli-c
Gross Gamma	1290	pCi/L		20.0		1	E901.1	11/16/07 10:50/eli-c
Gross Gamma precision (±)	224	pCi/L				1	E901.1	11/16/07 10:50/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.25	%				1	A1030 E	12/16/07 16:31/eli-c
Anions	6.18	meq/L				1	A1030 E	12/16/07 16:31/eli-c
Cations	6.03	meq/L				1	A1030 E	12/16/07 16:31/eli-c
Solids, Total Dissolved Calculated	399	mg/L				1	A1030 E	12/16/07 16:31/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110147-004
Client Sample ID: DewBurdSub07

Report Date: 01/29/08
Collection Date: 11/12/07 16:45
Date Received: 11/13/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.13	dec. %				1	A1030 E	12/16/07 16:31/eli-c
- Ion Balance achieved using Sulfate from E200.7.								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071126A-ALK-SEL-W	
Sample ID: MBLK2_071126A	Method Blank				Run: PH_COND1-R_071126A			11/26/07 15:38	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS2_071126A	Laboratory Control Sample				Run: PH_COND1-R_071126A			11/26/07 15:41	
Alkalinity, Total as CaCO3	910	mg/L	5.0	91	90	110			
Sample ID: R07110147-004AMS	Sample Matrix Spike				Run: PH_COND1-R_071126A			11/26/07 16:25	
Alkalinity, Total as CaCO3	102	mg/L	5.0	96	80	120			
Sample ID: R07110147-004AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_071126A			11/26/07 16:29	
Alkalinity, Total as CaCO3	94.0	mg/L	5.0	89	80	120	8.2	10	
Method: A2510 B								Batch: 071116_1_COND-PROBE-W	
Sample ID: LCS1-1_071116	Laboratory Control Sample				Run: PH_COND2-R_071116A			11/16/07 18:09	
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071116	Laboratory Control Sample				Run: PH_COND2-R_071116A			11/16/07 18:10	
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110			
Sample ID: LCS_COND-1_071116	Laboratory Control Sample				Run: PH_COND2-R_071116A			11/16/07 18:10	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071116	Method Blank				Run: PH_COND2-R_071116A			11/16/07 18:11	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110147-001ADUP	Sample Duplicate				Run: PH_COND2-R_071116A			11/16/07 18:47	
Conductivity @ 25 C	3400	umhos/cm	5.0				1.8	10	
Method: A2540 C								Batch: 071115A-SLDS-TDS-W	
Sample ID: LCS1_071115A	Laboratory Control Sample				Run: BAL-4-R_071115A			11/15/07 15:53	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: MBLK1_071115A	Method Blank				Run: BAL-4-R_071115A			11/16/07 13:54	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07110146-003AMS	Sample Matrix Spike				Run: BAL-4-R_071115A			11/15/07 16:04	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	99	80	120			
Sample ID: R07110146-003AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071115A			11/15/07 16:05	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	100	80	120	0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071119A-SLDS-TSS-W	
Sample ID: MBLK1_071119A	Method Blank				Run: BAL-4-R_071119A			11/19/07 13:41	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071119A	Laboratory Control Sample				Run: BAL-4-R_071119A			11/19/07 13:42	
Solids, Total Suspended TSS @ 105 C	210	mg/L	5.0	106	85	115			
Sample ID: R07110147-001ADUP	Sample Duplicate				Run: BAL-4-R_071119A			11/19/07 13:44	
Solids, Total Suspended TSS @ 105 C	2.0	mg/L	5.0				0.0	20	
Method: A3114 B								Batch: C_SE3114-071128	
Sample ID: MBLK	Method Blank				Run: SUB-C93452			11/28/07 13:26	
Selenium	ND	mg/L	0.0004						
Sample ID: C07110603-001EMS	Sample Matrix Spike				Run: SUB-C93452			11/28/07 13:50	
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: C07110603-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93452			11/28/07 13:52	
Selenium	0.050	mg/L	0.0010	101	85	115	0.6	10	
Sample ID: 301-119-5	Laboratory Control Sample				Run: SUB-C93452			11/28/07 13:54	
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R07110147-001H	Sample Matrix Spike				Run: SUB-C93452			11/28/07 14:19	
Selenium	0.050	mg/L	0.0010	97	85	115			
Sample ID: R07110147-001H	Sample Matrix Spike Duplicate				Run: SUB-C93452			11/28/07 14:21	
Selenium	0.054	mg/L	0.0010	104	85	115	6.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV3114-071128	
Sample ID: MBLK	Method Blank				Run: SUB-C93423			11/28/07 08:58	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: C07110603-001EMS	Sample Matrix Spike				Run: SUB-C93423			11/28/07 09:21	
Selenium-IV	0.046	mg/L	0.0010	93	85	115			
Sample ID: C07110603-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93423			11/28/07 09:23	
Selenium-IV	0.048	mg/L	0.0010	95	85	115	2.7	10	
Sample ID: 301-119-5	Laboratory Control Sample				Run: SUB-C93423			11/28/07 09:25	
Selenium-IV	0.048	mg/L	0.0010	96	90	110			
Sample ID: R07110147-001H	Sample Matrix Spike				Run: SUB-C93423			11/28/07 09:51	
Selenium-IV	0.043	mg/L	0.0010	86	85	115			
Sample ID: R07110147-001H	Sample Matrix Spike Duplicate				Run: SUB-C93423			11/28/07 09:53	
Selenium-IV	0.044	mg/L	0.0010	87	85	115	1.5	10	
Method: A3500-Cr B								Batch: 111207A	
Sample ID: MBLK	Method Blank				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	0.21	mg/L	0.0050	104	80	120			
Sample ID: R07110147-001D	Sample Matrix Spike				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	0.21	mg/L	0.0050	105	80	120			
Sample ID: R07110147-002D	Sample Matrix Spike				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	1.6	mg/L	0.050	79	80	120			S
Sample ID: R07110147-003D	Sample Matrix Spike				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	0.17	mg/L	0.0050	85	80	120			
Sample ID: R07110147-004D	Sample Matrix Spike				Run: SPEC1_071112A			11/12/07 00:00	
Chromium, Hexavalent	0.87	mg/L	0.025	87	80	120			
Method: A4500-H B								Batch: 071116_1_PH-W	
Sample ID: LCS_pH-1_071116	Laboratory Control Sample				Run: PH_COND2-R_071116B			11/16/07 14:01	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R07110147-001ADUP	Sample Duplicate				Run: PH_COND2-R_071116B			11/16/07 14:25	
pH	7.80	s.u.	0.010				0.3	1.25	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2007-11-13_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_071113A			11/13/07 16:08	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_071113A			11/13/07 16:09	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	91	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071113A			11/13/07 16:10	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: R07110016-001BMS	Sample Matrix Spike				Run: TECHAA2-R_071113A			11/13/07 17:43	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	97	80	120			
Method: A9222 D								Batch: 071113-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_071113A			11/13/07 12:50	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Method: E200.7								Batch: C_16890	
Sample ID: MB-16890	Method Blank				Run: SUB-C93405			11/27/07 18:06	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-16890	Laboratory Control Sample				Run: SUB-C93405			11/27/07 18:09	
Boron	0.43	mg/L	0.10	86	85	115			
Iron	0.45	mg/L	0.030	89	85	115			
Calcium	42	mg/L	0.50	84	85	115			S
Magnesium	42	mg/L	0.50	83	85	115			S
Potassium	44	mg/L	0.50	89	85	115			
Sodium	43	mg/L	0.53	87	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R93405	
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93405			11/27/07 11:57	
Silica	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93405			11/27/07 12:00	
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	94	85	125			
Potassium	26	mg/L	0.50	104	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: R07110146-001C	Sample Matrix Spike				Run: SUB-C93405			11/27/07 15:02	
Boron	8.88	mg/L	0.10	89	70	130			
Iron	9.14	mg/L	0.046	88	70	130			
Calcium	619	mg/L	1.0	81	70	130			
Magnesium	482	mg/L	0.50	81	70	130			
Potassium	1100	mg/L	0.50	90	70	130			
Silica	16.2	mg/L	0.20	85	70	130			
Sodium	551	mg/L	7.6	80	70	130			
Silicon	7.58	mg/L	0.094	76	70	130			
Sample ID: R07110146-001C	Sample Matrix Spike Duplicate				Run: SUB-C93405			11/27/07 15:05	
Boron	9.32	mg/L	0.10	93	70	130	4.8	20	
Iron	9.49	mg/L	0.046	91	70	130	3.8	20	
Calcium	632	mg/L	1.0	84	70	130	2.1	20	
Magnesium	491	mg/L	0.50	82	70	130	1.7	20	
Potassium	1110	mg/L	0.50	91	70	130	1.6	20	
Silica	16.4	mg/L	0.20	86	70	130	1.0	20	
Sodium	577	mg/L	7.6	85	70	130	4.6	20	
Silicon	7.65	mg/L	0.094	77	70	130	1.0	20	
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93405			11/27/07 21:56	
Silica	1.9	mg/L	0.10	96	85	125			
Boron	1.9	mg/L	0.10	93	85	125			
Calcium	ND	mg/L	0.50		85	125			S
Iron	1.9	mg/L	0.030	95	85	125			
Magnesium	ND	mg/L	0.50		85	125			S
Potassium	0.069	mg/L	0.50		85	125			S
Sodium	ND	mg/L	0.76		85	125			S
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93405			11/27/07 21:59	
Calcium	23	mg/L	0.50	94	85	125			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R93405	
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93405			11/27/07 21:59	
Magnesium	23	mg/L	0.50	93	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	23	mg/L	0.76	94	85	125			
Sample ID: C07110667-001BMS	Sample Matrix Spike				Run: SUB-C93405			11/27/07 17:43	
Boron	0.966	mg/L	0.10	92	70	130			
Calcium	105	mg/L	0.50	80	70	130			
Iron	0.934	mg/L	0.030	93	70	130			
Magnesium	56.9	mg/L	0.50	87	70	130			
Potassium	116	mg/L	0.50	93	70	130			
Silica	50.9	mg/L	0.10		0	0			A
Sodium	58.9	mg/L	0.76	89	70	130			
Sample ID: C07110667-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C93405			11/27/07 17:46	
Boron	0.999	mg/L	0.10	95	70	130	3.4	20	
Calcium	108	mg/L	0.50	84	70	130	2.2	20	
Iron	0.952	mg/L	0.030	95	70	130	1.9	20	
Magnesium	57.5	mg/L	0.50	88	70	130	1.0	20	
Potassium	116	mg/L	0.50	93	70	130	0.1	20	
Silica	51.5	mg/L	0.10		0	0			A
Sodium	58.5	mg/L	0.76	89	70	130	0.7	20	
Sample ID: C07110903-001CMS	Sample Matrix Spike				Run: SUB-C93405			11/27/07 19:05	
Boron	9.63	mg/L	0.10	95	70	130			
Iron	9.43	mg/L	0.046	94	70	130			
Calcium	447	mg/L	1.0	89	70	130			
Magnesium	438	mg/L	0.50	88	70	130			
Potassium	1140	mg/L	0.50	95	70	130			
Silica	20.6	mg/L	0.20	89	70	130			
Sodium	702	mg/L	7.6	91	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: C07110903-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C93405			11/27/07 19:08	
Boron	9.78	mg/L	0.10	96	70	130	1.5	20	
Iron	9.53	mg/L	0.046	95	70	130	1.1	20	
Calcium	451	mg/L	1.0	90	70	130	0.7	20	
Magnesium	447	mg/L	0.50	89	70	130	2.1	20	
Potassium	1130	mg/L	0.50	94	70	130	1.5	20	
Silica	20.5	mg/L	0.20	87	70	130			
Sodium	707	mg/L	7.6	92	70	130	0.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16875
Sample ID: MB-16875	Method Blank				Run: SUB-C93209				11/21/07 02:47
Uranium	5E-05	mg/L	2E-05						
Sample ID: LCS1-16875	Laboratory Control Sample				Run: SUB-C93209				11/21/07 02:54
Uranium	0.0526	mg/L	0.00030	100	80	120			
Sample ID: R07110147-004K	Post Digestion Spike				Run: SUB-C93209				11/21/07 04:48
Thorium 232	0.0241	mg/L	0.0010	96	70	130			
Uranium	0.0241	mg/L	0.00030	95	70	130			
Sample ID: R07110147-004K	Post Digestion Spike Duplicate				Run: SUB-C93209				11/21/07 04:55
Thorium 232	0.0242	mg/L	0.0010	96	70	130	0.2	20	
Uranium	0.0241	mg/L	0.00030	95	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16890
Sample ID: MB-16890	Method Blank				Run: SUB-C93209				11/20/07 21:28
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	0.00010	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	ND	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Silver	0.0005	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.0005	mg/L	0.0003						
Sample ID: LCS1-16890	Laboratory Control Sample				Run: SUB-C93209				11/20/07 21:35
Aluminum	0.020	mg/L	0.10	101	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.021	mg/L	0.10	103	80	120			
Cadmium	0.020	mg/L	0.010	102	80	120			
Chromium	0.020	mg/L	0.050	98	80	120			
Copper	0.020	mg/L	0.010	99	80	120			
Lead	0.020	mg/L	0.050	101	80	120			
Manganese	0.020	mg/L	0.010	99	80	120			
Molybdenum	0.020	mg/L	0.10	102	80	120			
Nickel	0.020	mg/L	0.050	101	80	120			
Silver	0.020	mg/L	0.010	98	80	120			
Thorium 232	0.020	mg/L	0.0010	100	80	120			
Uranium	0.020	mg/L	0.00030	101	80	120			
Vanadium	0.019	mg/L	0.10	97	80	120			
Zinc	0.021	mg/L	0.010	102	80	120			
Sample ID: LCS-16890	Laboratory Control Sample				Run: SUB-C93209				11/20/07 21:42
Aluminum	0.45	mg/L	0.10	89	85	115			
Arsenic	0.46	mg/L	0.0010	92	85	115			
Barium	0.46	mg/L	0.10	92	85	115			
Cadmium	0.46	mg/L	0.010	92	85	115			
Chromium	0.45	mg/L	0.050	90	85	115			
Copper	0.44	mg/L	0.010	89	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16890
Sample ID: LCS-16890	Laboratory Control Sample				Run: SUB-C93209				11/20/07 21:42
Lead	0.45	mg/L	0.050	91	85	115			
Manganese	0.45	mg/L	0.010	91	85	115			
Molybdenum	0.45	mg/L	0.10	91	85	115			
Nickel	0.45	mg/L	0.050	91	85	115			
Silver	0.23	mg/L	0.010	115	85	115			
Uranium	0.46	mg/L	0.00032	91	85	115			
Vanadium	0.45	mg/L	0.10	90	85	115			
Zinc	0.45	mg/L	0.010	90	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93179
Sample ID: LRB	Method Blank				Run: SUB-C93179				11/19/07 10:45
Arsenic	ND	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	0.0001	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93179				11/19/07 10:51
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Barium	0.0508	mg/L	0.0010	102	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Chromium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0514	mg/L	0.0010	103	85	115			
Lead	0.0520	mg/L	0.0010	104	85	115			
Manganese	0.0520	mg/L	0.0010	104	85	115			
Mercury	0.00523	mg/L	0.0010	105	85	115			
Molybdenum	0.0521	mg/L	0.0010	104	85	115			
Nickel	0.0515	mg/L	0.0010	103	85	115			
Thorium 232	0.0527	mg/L	0.0010	105	85	115			
Uranium	0.0534	mg/L	0.00030	107	85	115			
Vanadium	0.0521	mg/L	0.0010	104	85	115			
Zinc	0.0536	mg/L	0.0010	105	85	115			
Sample ID: C07110547-012DMS4	Post Digestion Spike				Run: SUB-C93179				11/20/07 00:48
Arsenic	0.0519	mg/L	0.0010	102	70	130			
Barium	0.140	mg/L	0.10	103	70	130			
Cadmium	0.0505	mg/L	0.010	101	70	130			
Chromium	0.0456	mg/L	0.050	91	70	130			
Copper	0.0468	mg/L	0.010	93	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.0497	mg/L	0.010	89	70	130			
Mercury	0.00578	mg/L	0.0010	116	70	130			
Molybdenum	0.0492	mg/L	0.10	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R93179	
Sample ID: C07110547-012DMS4	Post Digestion Spike				Run: SUB-C93179			11/20/07 00:48	
Nickel	0.0449	mg/L	0.050	90	70	130			
Thorium 232	0.0532	mg/L	0.0010	106	70	130			
Uranium	0.0548	mg/L	0.00030	107	70	130			
Vanadium	0.0471	mg/L	0.10	94	70	130			
Zinc	0.0551	mg/L	0.010	107	70	130			
Sample ID: C07110547-012DMSD4	Post Digestion Spike Duplicate				Run: SUB-C93179			11/20/07 00:54	
Arsenic	0.0516	mg/L	0.0010	101	70	130	0.4	20	
Barium	0.139	mg/L	0.10	101	70	130	0.6	20	
Cadmium	0.0506	mg/L	0.010	101	70	130	0.2	20	
Chromium	0.0458	mg/L	0.050	91	70	130	0.0	20	
Copper	0.0463	mg/L	0.010	92	70	130	0.9	20	
Lead	0.0518	mg/L	0.050	104	70	130	0.4	20	
Manganese	0.0500	mg/L	0.010	89	70	130	0.7	20	
Mercury	0.00570	mg/L	0.0010	114	70	130	1.3	20	
Molybdenum	0.0496	mg/L	0.10	96	70	130	0.0	20	
Nickel	0.0439	mg/L	0.050	88	70	130	0.0	20	
Thorium 232	0.0528	mg/L	0.0010	106	70	130	0.8	20	
Uranium	0.0546	mg/L	0.00030	107	70	130	0.4	20	
Vanadium	0.0473	mg/L	0.10	95	70	130	0.0	20	
Zinc	0.0500	mg/L	0.010	97	70	130	9.7	20	
Sample ID: C07110706-003DMS4	Post Digestion Spike				Run: SUB-C93179			11/20/07 02:29	
Arsenic	0.0898	mg/L	0.0010	103	70	130			
Barium	0.114	mg/L	0.10	102	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Chromium	0.0476	mg/L	0.050	95	70	130			
Copper	0.0498	mg/L	0.010	98	70	130			
Lead	0.0518	mg/L	0.050	103	70	130			
Manganese	0.210	mg/L	0.010	92	70	130			
Mercury	0.00532	mg/L	0.0010	106	70	130			
Molybdenum	0.0514	mg/L	0.10	102	70	130			
Nickel	0.0498	mg/L	0.050	100	70	130			
Thorium 232	0.0541	mg/L	0.0010	108	70	130			
Uranium	0.0592	mg/L	0.00030	107	70	130			
Vanadium	0.0499	mg/L	0.10	98	70	130			
Zinc	0.0541	mg/L	0.010	98	70	130			
Sample ID: C07110706-003DMSD4	Post Digestion Spike Duplicate				Run: SUB-C93179			11/20/07 02:50	
Arsenic	0.0883	mg/L	0.0010	100	70	130	1.7	20	
Barium	0.111	mg/L	0.10	96	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93179
Sample ID: C07110706-003DMSD4	Post Digestion Spike Duplicate				Run: SUB-C93179			11/20/07 02:50	
Cadmium	0.0493	mg/L	0.010	99	70	130	2.8	20	
Chromium	0.0477	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0485	mg/L	0.010	96	70	130	2.6	20	
Lead	0.0496	mg/L	0.050	99	70	130	0.0	20	
Manganese	0.213	mg/L	0.010	98	70	130	1.5	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	5.6	20	
Molybdenum	0.0517	mg/L	0.10	102	70	130	0.0	20	
Nickel	0.0487	mg/L	0.050	97	70	130	0.0	20	
Thorium 232	0.0518	mg/L	0.0010	104	70	130	4.4	20	
Uranium	0.0571	mg/L	0.00030	103	70	130	3.5	20	
Vanadium	0.0497	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0543	mg/L	0.010	98	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R93267	
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93267			11/21/07 22:44	
Aluminum	0.0462	mg/L	0.0010	92	85	115			
Arsenic	0.0508	mg/L	0.0010	102	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Manganese	0.0497	mg/L	0.0010	99	85	115			
Nickel	0.0508	mg/L	0.0010	102	85	115			
Zinc	0.0523	mg/L	0.0010	102	85	115			
Sample ID: C07110795-006BMS4	Post Digestion Spike				Run: SUB-C93267			11/22/07 00:46	
Aluminum	1.17	mg/L	0.10	89	70	130			
Arsenic	1.55	mg/L	0.0015	103	70	130			
Copper	1.09	mg/L	0.010	87	70	130			
Manganese	2.45	mg/L	0.010	93	70	130			
Nickel	1.21	mg/L	0.050	97	70	130			
Zinc	1.27	mg/L	0.010	100	70	130			
Sample ID: C07110795-006BMSD4	Post Digestion Spike Duplicate				Run: SUB-C93267			11/22/07 00:53	
Aluminum	1.13	mg/L	0.10	86	70	130	3.6	20	
Arsenic	1.52	mg/L	0.0015	100	70	130	2.3	20	
Copper	1.09	mg/L	0.010	87	70	130	0.0	20	
Manganese	2.43	mg/L	0.010	91	70	130	0.9	20	
Nickel	1.22	mg/L	0.050	97	70	130	0.3	20	
Zinc	1.26	mg/L	0.010	99	70	130	0.9	20	
Sample ID: LRB	Method Blank				Run: SUB-C93267			11/21/07 22:37	
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Manganese	6E-05	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Zinc	0.001	mg/L	0.0003						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93352
Sample ID: LRB	Method Blank				Run: SUB-C93352				11/26/07 11:53
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93352				11/26/07 12:00
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: R07110147-001E	Post Digestion Spike				Run: SUB-C93352				11/26/07 12:20
Silver	0.188	mg/L	0.010	94	70	130			
Sample ID: R07110147-001E	Post Digestion Spike Duplicate				Run: SUB-C93352				11/26/07 12:27
Silver	0.190	mg/L	0.010	95	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32251
Sample ID: LFB0711142429-3	Laboratory Fortified Blank				Run: DIONEX_071114A				11/14/07 18:41
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.96	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.43	mg/L	0.10	97	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0711142429-4	Laboratory Fortified Blank				Run: DIONEX_071114A				11/14/07 18:57
Chloride	4.95	mg/L	0.50	99	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.50	mg/L	0.10	100	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110147-001AMS	Sample Matrix Spike				Run: DIONEX_071114A				11/15/07 02:54
Chloride	268	mg/L	2.0	94	80	120			
Fluoride	103	mg/L	3.2	103	80	120			
Nitrogen, Nitrate as N	125	mg/L	0.84	100	80	120			
Sulfate	2930	mg/L	36	73	80	120			S
Sample ID: R07110147-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071114A				11/15/07 03:10
Chloride	261	mg/L	2.0	91	80	120	2.8	10	
Fluoride	99.9	mg/L	3.2	100	80	120	3.1	10	
Nitrogen, Nitrate as N	121	mg/L	0.84	97	80	120	2.8	10	
Sulfate	2940	mg/L	36	73	80	120	0.1	10	S
Sample ID: R07110122-002BMS	Sample Matrix Spike				Run: DIONEX_071114A				11/15/07 06:53
Chloride	192	mg/L	0.80	80	80	120			
Fluoride	41.3	mg/L	1.3	103	80	120			
Nitrogen, Nitrate as N	50.5	mg/L	0.34	95	80	120			
Sulfate	913	mg/L	14	73	80	120			S
Sample ID: R07110122-002BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071114A				11/15/07 07:09
Chloride	190	mg/L	0.80	78	80	120	1.4	10	S
Fluoride	40.7	mg/L	1.3	102	80	120	1.4	10	
Nitrogen, Nitrate as N	49.1	mg/L	0.34	92	80	120	2.8	10	
Sulfate	898	mg/L	14	68	80	120	1.7	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32294
Sample ID: LFB0711160116-3	Laboratory Fortified Blank				Run: DIONEX_071116A				11/16/07 19:43
Chloride	4.74	mg/L	0.50	95	90	110			
Sample ID: LFB0711160116-4	Laboratory Fortified Blank				Run: DIONEX_071116A				11/16/07 19:59
Chloride	4.91	mg/L	0.50	98	90	110			
Sample ID: R07110196-001AMS	Sample Matrix Spike				Run: DIONEX_071116A				11/16/07 23:42
Chloride	17.2	mg/L	0.50	87	80	120			
Sample ID: R07110196-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071116A				11/16/07 23:58
Chloride	17.2	mg/L	0.50	86	80	120	0.2	10	
Method: E900.0									Batch: C_GrAB-0360
Sample ID: MB-GrAB-0360	Method Blank				Run: SUB-C93851				11/30/07 22:31
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0360	Laboratory Control Sample				Run: SUB-C93851				11/30/07 22:32
Gross Alpha	200	pCi/L	1.0	98	70	130			
Sample ID: Cs137-GrAB-0360	Laboratory Control Sample				Run: SUB-C93851				11/30/07 22:32
Gross Beta	90	pCi/L	2.0	97	70	130			
Sample ID: C07110713-001EMS	Sample Matrix Spike				Run: SUB-C93851				11/30/07 22:32
Gross Alpha	400	pCi/L	1.0	82	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93851				11/30/07 22:31
Gross Alpha	400	pCi/L	1.0	81	70	130	1.2	12.4	
Sample ID: C07110713-001EMS	Sample Matrix Spike				Run: SUB-C93851				11/30/07 22:31
Gross Beta	200	pCi/L	2.0	93	70	130			
Sample ID: C07110713-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93851				11/30/07 22:31
Gross Beta	200	pCi/L	2.0	87	70	130	6.7	15.6	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R93000
Sample ID: LCS-R93000	Laboratory Control Sample				Run: SUB-C93000				11/16/07 10:50
Cesium 137	1100	pCi/L	20	82	70	130			
Potassium 40	7000	pCi/L	20	105	70	130			
Sample ID: MB-R93000	Method Blank				Run: SUB-C93000				11/16/07 10:50
Gross Gamma	ND	pCi/L	20						
Sample ID: C07110603-010HDUP	Sample Duplicate				Run: SUB-C93000				11/16/07 10:50
Gross Gamma	2000	pCi/L	20				13	30	
Method: E903.0									Batch: C_16875
Sample ID: C07110557-001FMS	Sample Matrix Spike				Run: SUB-C93643				12/02/07 05:53
Radium 226	60	pCi/L	0.20	97	70	130			
Sample ID: C07110557-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C93643				12/02/07 06:53
Radium 226	54	pCi/L	0.20	86	70	130	10	30.1	
Sample ID: LCS-16875	Laboratory Control Sample				Run: SUB-C93643				12/03/07 03:02
Radium 226	11	pCi/L	0.20	88	70	130			
Sample ID: MB-16875	Method Blank				Run: SUB-C93643				12/03/07 04:02
Radium 226	ND	pCi/L	0.2						
Method: E903.0									Batch: C_RA226-2446
Sample ID: C07110687-003DMS	Sample Matrix Spike				Run: SUB-C93382				11/26/07 16:54
Radium 226	21	pCi/L	0.20	102	70	130			
Sample ID: C07110687-003DMSD	Sample Matrix Spike Duplicate				Run: SUB-C93382				11/26/07 17:54
Radium 226	23	pCi/L	0.20	109	70	130	6.9	27.9	
Sample ID: MB-RA226-2446	Method Blank				Run: SUB-C93382				11/27/07 03:58
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2446	Laboratory Control Sample				Run: SUB-C93382				11/27/07 05:59
Radium 226	12	pCi/L	0.20	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2447
Sample ID: C07110704-001AMS	Sample Matrix Spike				Run: SUB-C93327				11/26/07 13:48
Radium 226	22	pCi/L	0.20	94	70	130			
Sample ID: C07110704-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93327				11/26/07 13:48
Radium 226	22	pCi/L	0.20	92	70	130	1.3	27.5	
Sample ID: MB-RA226-2447	Method Blank				Run: SUB-C93327				11/26/07 13:48
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2447	Laboratory Control Sample				Run: SUB-C93327				11/26/07 13:48
Radium 226	13	pCi/L	0.20	100	70	130			
Method: E907.0									Batch: C_16875
Sample ID: C07110603-008IDUP	Sample Duplicate				Run: SUB-C93872				11/26/07 14:10
Thorium 230	0.233	pCi/L	0.20		70	130	2.6	30	
Sample ID: C07110603-009IMS	Sample Matrix Spike				Run: SUB-C93872				11/26/07 14:10
Thorium 230	3.25	pCi/L	0.20	87	70	130			
Sample ID: LCS-16875	Laboratory Control Sample				Run: SUB-C93872				11/26/07 14:10
Thorium 230	54.8	pCi/L	0.21	94	70	130			
Sample ID: MB-16875	Method Blank				Run: SUB-C93872				11/26/07 14:10
Thorium 230	ND	pCi/L	0.2						
Method: E907.0									Batch: C_R93922
Sample ID: LCS-R93922	Laboratory Control Sample				Run: SUB-C93922				11/28/07 15:00
Thorium 230	5.70	pCi/L	0.20	97	70	130			
Sample ID: C07110687-002DMS	Sample Matrix Spike				Run: SUB-C93922				11/28/07 15:00
Thorium 230	18.0	pCi/L	0.20	92	70	130			
Sample ID: C07110687-002DMSD	Sample Matrix Spike Duplicate				Run: SUB-C93922				11/28/07 15:00
Thorium 230	18.5	pCi/L	0.20	94	70	130	2.7	30	
Sample ID: MB-R93922	Method Blank				Run: SUB-C93922				11/28/07 15:00
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R95122
Sample ID: LCS-R95122	Laboratory Control Sample				Run: SUB-C95122				12/27/07 15:15
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank				Run: SUB-C95122				12/27/07 15:15
Thorium 230	ND	pCi/L	0.2						
Method: E907.0									Batch: C_R95271
Sample ID: C07120475-003AMS	Sample Matrix Spike				Run: SUB-C95271				12/27/07 14:30
Thorium 230	53.2	pCi/Filter	0.20	92	70	130			
Sample ID: C07120475-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95271				12/27/07 14:30
Thorium 230	56.3	pCi/Filter	0.20	96	70	130	5.7	30	
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C95271				12/27/07 14:30
Thorium 230	6.10	pCi/Filter	0.20	103	70	130			
Sample ID: MB-17292	Method Blank				Run: SUB-C95271				12/27/07 14:30
Thorium 230	ND	pCi/Filter	0.2						
Method: E909.0M									Batch: C_16875
Sample ID: C07110603-001IMS	Sample Matrix Spike				Run: SUB-C93672				12/03/07 04:30
Lead 210	330	pCi/L	1.0	83	70	130			
Sample ID: C07110603-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C93672				12/03/07 04:30
Lead 210	360	pCi/L	1.0	89	70	130	6.7	30	
Sample ID: MB-R93672	Method Blank				Run: SUB-C93672				12/03/07 04:30
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93672	Laboratory Control Sample				Run: SUB-C93672				12/03/07 04:30
Lead 210	85	pCi/L	1.0	106	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110147

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R93516
Sample ID: C07110728-001AMS	Sample Matrix Spike				Run: SUB-C93516				11/21/07 07:30
Lead 210	390	pCi/L	1.0	97	70	130			
Sample ID: C07110728-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93516				11/21/07 07:30
Lead 210	440	pCi/L	1.0	109	70	130	12	30	
Sample ID: MB-R93516	Method Blank				Run: SUB-C93516				11/21/07 07:30
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93516	Laboratory Control Sample				Run: SUB-C93516				11/21/07 07:30
Lead 210	98	pCi/L	1.0	122	70	130			
Method: RMO-3008									Batch: C_16875
Sample ID: C07110603-006IMS	Sample Matrix Spike				Run: SUB-C93514				11/26/07 12:30
Polonium 210	24	pCi/L	1.0	85	70	130			
Sample ID: C07110603-006IMSD	Sample Matrix Spike Duplicate				Run: SUB-C93514				11/26/07 12:30
Polonium 210	21	pCi/L	1.0	73	70	130	15	30	
Sample ID: LCS-R93514	Laboratory Control Sample				Run: SUB-C93514				11/26/07 12:30
Polonium 210	19	pCi/L	1.0	86	70	130			
Sample ID: MB-R93514	Method Blank				Run: SUB-C93514				11/26/07 12:30
Polonium 210	ND	pCi/L	1						
Method: RMO-3008									Batch: C_R93504
Sample ID: C07110759-004HMS	Sample Matrix Spike				Run: SUB-C93504				11/20/07 13:30
Polonium 210	180	pCi/L	1.0	81	70	130			
Sample ID: C07110759-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C93504				11/20/07 13:30
Polonium 210	170	pCi/L	1.0	76	70	130	6.2	30	
Sample ID: LCS-R93504	Laboratory Control Sample				Run: SUB-C93504				11/20/07 13:30
Polonium 210	17	pCi/L	1.0	77	70	130			
Sample ID: MB-R93504	Method Blank				Run: SUB-C93504				11/20/07 13:30
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT - Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc.: PowerTech Deney Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: 3824 Jet Dr. Rapid City, SD 57703	Contact Name: Cory Foreman Phone/Fax: Cory.Foreman@respec.com 605.394.6400	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address:	Invoice Contact & Phone: ↑	Purchase Order:	Quote/Bottle Order:

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☒ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

Number of Containers; Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED: As per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: SW

Shipped by:

Cooler ID(s):

Receipt Temp 3.9 °C CICA

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX		Comments	LABORATORY USE ONLY
1	DewBurd Sub02	11/12/07	1250	W		Set 4	R0711047
2	DewBurd Sub04	11/12/07	1350	W		Set 2	
3	DewBurd Sub03	11/12/07	1450	W		Set 1	
4	DewBurd Sub07	11/12/07	16:45	W		Set 3	
5							
6							
7							
8							
9							
10							

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Relinquished by (print):	Date/Time: 11/13/07 0807	Signature:	Received by (print):	Date/Time:	Signature:
Sample Disposal: Return to Client: _____		Lab Disposal: _____	Received by Laboratory: Linda Larsen	Date/Time: 11/13/07 807	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

January 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110229 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/19/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110229-001	DewBurdCHR01	11/19/07 9:45	11/19/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110229-002	DewBurdBVC01	11/19/07 11:30	11/19/07	Aqueous	Same As Above
R07110229-003	DewBurdBVC04	11/19/07 12:30	11/19/07	Aqueous	Same As Above
R07110229-004	DewBurdCHR05	11/19/07 15:00	11/19/07	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • *2821 Plant Street • Rapid City, SD 57702 • www.energylab.com*
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-001
Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
Collection Date: 11/19/07 09:45
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	322	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Bicarbonate as HCO3	393	mg/L		5		1	A2320 B	12/03/07 15:45/sn
Calcium	411	mg/L	D	1		10	E200.7	12/03/07 16:53/eli-c
Chloride	176	mg/L		1		20	E300.0	11/20/07 20:42/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/20/07 21:29/jmh
Magnesium	201	mg/L		0.5		1	E200.7	12/04/07 16:49/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:36/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/07 21:29/jmh
Potassium	15	mg/L		1		10	E200.7	12/03/07 16:53/eli-c
Silica	12.4	mg/L		0.5		10	E200.7	12/03/07 16:53/eli-c
Sodium	1530	mg/L	D	8		10	E200.7	12/03/07 16:53/eli-c
Sulfate	4520	mg/L	D	40		50	E300.0	11/21/07 19:32/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7530	umhos/cm		5.0		1	A2510 B	11/26/07 15:30/jmh
pH	7.63	s.u.		0.01		1	A4500-H B	11/26/07 15:06/jmh
Sodium Adsorption Ratio (SAR)	15	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	10	mg/L		5		1	D3977	11/27/07 15:14/jmh
Solids, Total Dissolved TDS @ 180 C	7100	mg/L		5		1	A2540 C	11/26/07 15:46/jmh
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	12/04/07 16:49/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:01/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	12/04/07 16:49/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Manganese	3.01	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:01/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-001
Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
Collection Date: 11/19/07 09:45
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/27/07 23:51/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/27/07 00:01/eli-c
Uranium	0.0310	mg/L		0.0003		10	E200.8	11/27/07 00:01/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/27/07 00:01/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	11/27/07 00:01/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/03/07 13:24/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	12/03/07 13:24/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		5	E200.8	11/29/07 23:29/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	11/29/07 04:25/eli-c
Barium	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	12/04/07 17:02/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	11/29/07 04:25/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	11/29/07 04:25/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/20/07 18:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	12/04/07 17:02/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/26/07 16:28/eli-c
Manganese	2.66	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/27/07 22:59/eli-c
Molybdenum	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	11/29/07 04:25/eli-c
Silver	ND	mg/L		0.005		5	E200.8	11/29/07 04:25/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/26/07 16:28/eli-c
Uranium	0.0316	mg/L		0.0003		1	E200.8	11/26/07 16:28/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8	11/29/07 04:25/eli-c
Zinc	0.02	mg/L		0.01		5	E200.8	11/29/07 04:25/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 14:59/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-001
Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
Collection Date: 11/19/07 09:45
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 15:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/27/07 08:00/eli-c
Polonium 210	1.7	pCi/L		1.0		1	RMO-3008	11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/04/07 11:15/eli-c
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008	12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	12/05/07 12:00/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	12/11/07 09:36/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/11/07 09:36/eli-c
Thorium 230	3.8	pCi/L		0.2		1	E907.0	12/05/07 15:00/eli-c
Thorium 230 precision (±)	1.0	pCi/L				1	E907.0	12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	27.0	pCi/L		1.0		1	E900.0	12/06/07 20:59/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	12/06/07 20:59/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	11/28/07 11:35/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/24/07 11:00/eli-c
Polonium 210	4.0	pCi/L		1.0		1	RMO-3008	12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.9	pCi/L				1	RMO-3008	12/24/07 11:00/eli-c
Radium 226	0.6	pCi/L		0.2		1	E903.0	12/24/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/24/07 11:00/eli-c
Thorium 230	3.8	pCi/L		0.2		1	E907.0	12/24/07 11:00/eli-c
Thorium 230 precision (±)	1.0	pCi/L				1	E907.0	12/24/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-0.593	%				1	A1030 E	12/24/07 14:55/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-001
Client Sample ID: DewBurdCHR01

Report Date: 01/29/08
Collection Date: 11/19/07 09:45
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Anions	105	meq/L				1	A1030 E	12/24/07 14:55/sec
Cations	104	meq/L				1	A1030 E	12/24/07 14:55/sec
Solids, Total Dissolved Calculated	7040	mg/L				1	A1030 E	12/24/07 14:55/sec
TDS Balance (0.80 - 1.20)	1.00	dec. %				1	A1030 E	12/24/07 14:55/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-002
Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
Collection Date: 11/19/07 11:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	30	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	196	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Bicarbonate as HCO3	239	mg/L		5		1	A2320 B	12/03/07 15:48/sn
Calcium	379	mg/L	D	1		10	E200.7	12/03/07 16:56/eli-c
Chloride	1370	mg/L	D	4		100	E300.0	11/21/07 19:48/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	11/20/07 22:01/jmh
Magnesium	209	mg/L		0.5		1	E200.7	12/04/07 16:52/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:38/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/20/07 22:01/jmh
Potassium	11	mg/L		1		10	E200.7	12/03/07 16:56/eli-c
Silica	1.6	mg/L		0.5		1	E200.7	12/04/07 16:52/eli-c
Sodium	1240	mg/L	D	8		10	E200.7	12/03/07 16:56/eli-c
Sulfate	2540	mg/L	D	70		100	E300.0	11/21/07 19:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7290	umhos/cm		5.0		1	A2510 B	11/26/07 15:31/jmh
pH	7.77	s.u.		0.01		1	A4500-H B	11/26/07 15:07/jmh
Sodium Adsorption Ratio (SAR)	13	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	20	mg/L		5		1	D3977	11/27/07 15:14/jmh
Solids, Total Dissolved TDS @ 180 C	6100	mg/L		5		1	A2540 C	11/26/07 15:46/jmh
Solids, Total Suspended TSS @ 105 C	20	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	12/04/07 16:52/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:08/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Iron	0.18	mg/L		0.03		1	E200.7	12/04/07 16:52/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Manganese	0.23	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:08/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-002
Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
Collection Date: 11/19/07 11:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/27/07 23:59/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/27/07 00:08/eli-c
Uranium	0.0182	mg/L		0.0003		10	E200.8	11/27/07 00:08/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/27/07 00:08/eli-c
Zinc	ND	mg/L		0.01		10	E200.8	11/27/07 00:08/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/03/07 13:31/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/07 13:31/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		5	E200.8	11/29/07 23:36/eli-c
Arsenic	ND	mg/L		0.001		5	E200.8	11/29/07 04:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/27/07 23:06/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	12/04/07 17:06/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/27/07 23:06/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	11/29/07 04:32/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/20/07 17:55/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8	11/29/07 04:32/eli-c
Iron	0.05	mg/L		0.03		1	E200.7	12/04/07 17:06/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/26/07 16:36/eli-c
Manganese	0.18	mg/L		0.01		5	E200.8	11/29/07 04:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/27/07 23:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/27/07 23:06/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	11/29/07 04:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/27/07 23:06/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/26/07 16:36/eli-c
Uranium	0.0180	mg/L		0.0003		1	E200.8	11/26/07 16:36/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8	11/29/07 04:32/eli-c
Zinc	0.03	mg/L		0.01		5	E200.8	11/29/07 04:32/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 15:01/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-002
Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
Collection Date: 11/19/07 11:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 15:10/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	11/27/07 08:00/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	11/27/07 08:00/eli-c
Polonium 210	1.9	pCi/L		1.0		1	RMO-3008	11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/04/07 11:15/eli-c
Polonium 210	2.5	pCi/L		1.0		1	RMO-3008	12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	12/05/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	65.8	pCi/L		1.0		1	E900.0	12/06/07 20:59/eli-c
Gross Alpha precision (±)	6.6	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Beta	44.4	pCi/L		2.0		1	E900.0	12/06/07 20:59/eli-c
Gross Beta precision (±)	14.1	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	11/28/07 11:35/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	12/24/07 11:00/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	12/24/07 11:00/eli-c
Polonium 210	4.4	pCi/L		1.0		1	RMO-3008	12/24/07 11:00/eli-c
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008	12/24/07 11:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/24/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.71	%				1	A1030 E	12/24/07 14:56/sec
Anions	95.3	meq/L				1	A1030 E	12/24/07 14:56/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-002
Client Sample ID: DewBurdBVC01

Report Date: 01/29/08
Collection Date: 11/19/07 11:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Cations	90.3	meq/L				1	A1030 E	12/24/07 14:56/sec
Solids, Total Dissolved Calculated	5860	mg/L				1	A1030 E	12/24/07 14:56/sec
TDS Balance (0.80 - 1.20)	1.04	dec. %				1	A1030 E	12/24/07 14:56/sec

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-003
Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
Collection Date: 11/19/07 12:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	176	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Bicarbonate as HCO3	215	mg/L		5		1	A2320 B	12/03/07 15:50/sn
Calcium	426	mg/L	D	1		10	E200.7	12/03/07 16:59/eli-c
Chloride	1040	mg/L	D	4		100	E300.0	11/21/07 20:04/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	11/20/07 22:33/jmh
Magnesium	140	mg/L		0.5		1	E200.7	12/04/07 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:40/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	11/20/07 22:33/jmh
Potassium	7	mg/L		1		1	E200.7	12/04/07 16:56/eli-c
Silica	9.1	mg/L		0.5		1	E200.7	12/04/07 16:56/eli-c
Sodium	736	mg/L	D	8		10	E200.7	12/03/07 16:59/eli-c
Sulfate	1920	mg/L	D	10		20	E300.0	11/20/07 22:17/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5460	umhos/cm		5.0		1	A2510 B	11/26/07 15:33/jmh
pH	7.97	s.u.		0.01		1	A4500-H B	11/26/07 15:08/jmh
Sodium Adsorption Ratio (SAR)	7.9	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	14	mg/L		5		1	D3977	11/27/07 15:15/jmh
Solids, Total Dissolved TDS @ 180 C	4500	mg/L		5		1	A2540 C	11/26/07 15:47/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c
Arsenic	0.001	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/04/07 16:56/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:15/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/04/07 16:56/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Manganese	0.10	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:15/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-003
Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
Collection Date: 11/19/07 12:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/28/07 00:36/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/27/07 00:15/eli-c
Uranium	0.0189	mg/L		0.0003		10	E200.8	11/27/07 00:15/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/27/07 00:15/eli-c
Zinc	ND	mg/L		0.01		10	E200.8	11/27/07 00:15/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/03/07 13:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/07 13:39/eli-c
METALS - TOTAL								
Aluminum	0.2	mg/L		0.1		5	E200.8	11/30/07 00:14/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/27/07 23:14/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/27/07 23:14/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/04/07 17:09/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/27/07 23:14/eli-c
Chromium	ND	mg/L		0.05		5	E200.8	11/29/07 04:40/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/20/07 17:48/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		5	E200.8	11/29/07 04:40/eli-c
Iron	0.31	mg/L		0.03		1	E200.7	12/04/07 17:09/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/26/07 16:43/eli-c
Manganese	0.10	mg/L		0.01		5	E200.8	11/29/07 04:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/27/07 23:14/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/27/07 23:14/eli-c
Nickel	ND	mg/L		0.05		5	E200.8	11/29/07 04:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/27/07 23:14/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/26/07 16:43/eli-c
Uranium	0.0177	mg/L		0.0003		1	E200.8	11/26/07 16:43/eli-c
Vanadium	ND	mg/L		0.1		5	E200.8	11/29/07 04:40/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	11/27/07 23:14/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.004	mg/L		0.001		1	A3114 B	12/03/07 15:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:44/eli-c
Selenium-VI	0.004	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-003
Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
Collection Date: 11/19/07 12:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.004	mg/L		0.001		1	A3114 B	12/03/07 15:25/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 10:06/eli-c
Selenium-VI	0.004	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/27/07 08:00/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/04/07 11:15/eli-c
Polonium 210	1.7	pCi/L		1.0		1	RMO-3008	12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	12/05/07 12:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	12/11/07 09:36/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	34.7	pCi/L		1.0		1	E900.0	12/06/07 20:59/eli-c
Gross Alpha precision (±)	11.0	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Beta	48.1	pCi/L		2.0		1	E900.0	12/06/07 20:59/eli-c
Gross Beta precision (±)	27.4	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Gamma	1080	pCi/L		20.0		1	E901.1	11/28/07 11:35/eli-c
Gross Gamma precision (±)	172	pCi/L				1	E901.1	11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/24/07 11:00/eli-c
Polonium 210	3.0	pCi/L		1.0		1	RMO-3008	12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	12/24/07 11:00/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	12/24/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/24/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.84	%				1	A1030 E	12/24/07 14:56/sec
Anions	67.4	meq/L				1	A1030 E	12/24/07 14:56/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-003
Client Sample ID: DewBurdBVC04

Report Date: 01/29/08
Collection Date: 11/19/07 12:30
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Cations	65.0	meq/L				1	A1030 E	12/24/07 14:56/sec
Solids, Total Dissolved Calculated	4110	mg/L				1	A1030 E	12/24/07 14:56/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	12/24/07 14:56/sec
- Ion Balance achieved using Sulfate from E200.7.								

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	26	CFU/100ml	D	2		2	A9222 D	11/20/07 09:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	180	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Bicarbonate as HCO3	219	mg/L		5		1	A2320 B	12/03/07 15:54/sn
Calcium	389	mg/L	D	1		10	E200.7	12/03/07 17:02/eli-c
Chloride	912	mg/L	D	2		50	E300.0	11/21/07 20:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/21/07 00:09/jmh
Magnesium	164	mg/L		0.5		1	E200.7	12/04/07 16:59/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	11/29/07 16:42/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/21/07 00:09/jmh
Potassium	12	mg/L		1		1	E200.7	12/04/07 16:59/eli-c
Silica	4.4	mg/L		0.5		1	E200.7	12/04/07 16:59/eli-c
Sodium	974	mg/L	D	8		10	E200.7	12/03/07 17:02/eli-c
Sulfate	2340	mg/L	D	40		50	E300.0	11/21/07 20:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6090	umhos/cm		5.0		1	A2510 B	11/26/07 15:35/jmh
pH	7.95	s.u.		0.01		1	A4500-H B	11/26/07 15:09/jmh
Sodium Adsorption Ratio (SAR)	10	meq/L		0.10		1	Calculation	12/24/07 14:51/sec
Solids, Suspended Sediment SSC @ 105 C	17	mg/L		5		1	D3977	11/27/07 15:15/jmh
Solids, Total Dissolved TDS @ 180 C	5200	mg/L		5		1	A2540 C	11/26/07 15:47/jmh
Solids, Total Suspended TSS @ 105 C	16	mg/L		5		1	A2540 D	11/19/07 19:01/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Barium	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c
Boron	0.4	mg/L		0.1		1	E200.7	12/04/07 16:59/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	11/27/07 00:22/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Copper	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/04/07 16:59/eli-c
Lead	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Manganese	0.16	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	11/27/07 00:22/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/28/07 00:44/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	11/27/07 00:22/eli-c
Uranium	0.0151	mg/L		0.0003		10	E200.8	11/27/07 00:22/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	11/27/07 00:22/eli-c
Zinc	ND	mg/L		0.01		10	E200.8	11/27/07 00:22/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/03/07 13:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/03/07 13:46/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		5	E200.8	11/30/07 00:21/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	11/26/07 17:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	11/26/07 17:20/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	12/04/07 17:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	11/27/07 23:21/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	11/26/07 17:20/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/20/07 18:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	12/24/07 14:52/sec
Copper	ND	mg/L		0.01		1	E200.8	11/26/07 17:20/eli-c
Iron	0.24	mg/L		0.03		1	E200.7	12/04/07 17:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	11/26/07 17:20/eli-c
Manganese	0.23	mg/L		0.01		1	E200.8	11/26/07 17:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	11/27/07 23:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	11/26/07 17:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	11/26/07 17:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	11/26/07 17:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	11/26/07 17:20/eli-c
Uranium	0.0143	mg/L		0.0003		1	E200.8	11/26/07 17:20/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	11/26/07 17:20/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	11/26/07 17:20/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 15:06/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 09:46/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/03/07 15:27/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/03/07 10:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/04/07 00:00/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	11/27/07 08:00/eli-c
Polonium 210	1.5	pCi/L		1.0		1	RMO-3008	11/28/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	11/28/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/04/07 15:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	11/29/07 14:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/04/07 11:15/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	12/05/07 12:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	12/05/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/11/07 09:36/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/05/07 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.8	pCi/L		1.0		1	E900.0	12/06/07 20:59/eli-c
Gross Alpha precision (±)	5.0	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Beta	38.0	pCi/L		2.0		1	E900.0	12/06/07 20:59/eli-c
Gross Beta precision (±)	14.0	pCi/L				1	E900.0	12/06/07 20:59/eli-c
Gross Gamma	967	pCi/L		20.0		1	E901.1	11/28/07 11:35/eli-c
Gross Gamma precision (±)	180	pCi/L				1	E901.1	11/28/07 11:35/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/24/07 11:00/eli-c
Polonium 210	2.8	pCi/L		1.0		1	RMO-3008	12/24/07 11:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	12/24/07 11:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/24/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/24/07 11:00/eli-c
DATA QUALITY								
A/C Balance (± 5)	-1.58	%				1	A1030 E	12/24/07 14:57/sec
Anions	78.0	meq/L				1	A1030 E	12/24/07 14:57/sec
Cations	75.6	meq/L				1	A1030 E	12/24/07 14:57/sec
Solids, Total Dissolved Calculated	4900	mg/L				1	A1030 E	12/24/07 14:57/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110229-004
Client Sample ID: DewBurdCHR05

Report Date: 01/29/08
Collection Date: 11/19/07 15:00
Date Received: 11/19/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	12/24/07 14:57/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071203A-ALK-SEL-W	
Sample ID: MBLK1_071203A	Method Blank				Run: PH_COND1-R_071203A			12/03/07 15:31	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_071203A	Laboratory Control Sample				Run: PH_COND1-R_071203A			12/03/07 15:32	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	102	90	110			
Sample ID: R07110246-006BMS	Sample Matrix Spike				Run: PH_COND1-R_071203A			12/03/07 16:51	
Alkalinity, Total as CaCO3	310	mg/L	5.0	91	80	120			
Sample ID: R07110246-006BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_071203A			12/03/07 16:57	
Alkalinity, Total as CaCO3	300	mg/L	5.0	83	80	120	2.6	20	
Method: A2510 B								Batch: 071126_1_COND-PROBE-W	
Sample ID: LCS1-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A			11/26/07 15:20	
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A			11/26/07 15:20	
Conductivity @ 25 C	4960	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A			11/26/07 15:22	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071126	Method Blank				Run: PH_COND2-R_071126A			11/26/07 15:23	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110227-001ADUP	Sample Duplicate				Run: PH_COND2-R_071126A			11/26/07 15:27	
Conductivity @ 25 C	1020	umhos/cm	5.0				0.0	10	
Method: A2540 C								Batch: 071126A-SLDS-TDS-W	
Sample ID: MBLK1_071126A	Method Blank				Run: BAL-4-R_071126B			11/26/07 15:42	
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: LCS1_071126A	Laboratory Control Sample				Run: BAL-4-R_071126B			11/26/07 15:43	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			
Sample ID: R07110245-002BMS	Sample Matrix Spike				Run: BAL-4-R_071126B			11/26/07 15:49	
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	95	80	120			
Sample ID: R07110245-002BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071126B			11/26/07 15:50	
Solids, Total Dissolved TDS @ 180 C	1900	mg/L	5.0	110	80	120	1.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071119A-SLDS-TSS-W	
Sample ID: MBLK1_071119A	Method Blank				Run: BAL-4-R_071119A			11/19/07 13:41	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071119A	Laboratory Control Sample				Run: BAL-4-R_071119A			11/19/07 13:42	
Solids, Total Suspended TSS @ 105 C	210	mg/L	5.0	106	85	115			
Method: A3114 B								Batch: C_16944	
Sample ID: MB-16944	Method Blank				Run: SUB-C93347			11/26/07 16:54	
Selenium	ND	mg/L	0.0004						
Sample ID: LCS-16944	Laboratory Control Sample				Run: SUB-C93347			11/26/07 17:30	
Selenium	0.50	mg/L	0.0088	101	90	110			
Sample ID: R07110229-003H	Sample Matrix Spike				Run: SUB-C93669			12/03/07 15:46	
Selenium	0.052	mg/L	0.0010	96	85	115			
Sample ID: R07110229-003H	Sample Matrix Spike Duplicate				Run: SUB-C93669			12/03/07 15:48	
Selenium	0.050	mg/L	0.0010	92	85	115	4.1	10	
Method: A3114 B								Batch: C_SE3114-071203	
Sample ID: MBLK	Method Blank				Run: SUB-C93637			12/03/07 09:29	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07110184-001E	Sample Matrix Spike				Run: SUB-C93637			12/03/07 09:53	
Selenium-IV	0.050	mg/L	0.0010	99	85	115			
Sample ID: R07110184-001E	Sample Matrix Spike Duplicate				Run: SUB-C93637			12/03/07 09:55	
Selenium-IV	0.050	mg/L	0.0010	99	85	115	0.0	10	
Sample ID: 301-119-5	Laboratory Control Sample				Run: SUB-C93637			12/03/07 09:57	
Selenium-IV	0.050	mg/L	0.0010	100	90	110			
Sample ID: R07110229-003H	Sample Matrix Spike				Run: SUB-C93637			12/03/07 10:10	
Selenium-IV	0.052	mg/L	0.0010	105	85	115			
Sample ID: R07110229-003H	Sample Matrix Spike Duplicate				Run: SUB-C93637			12/03/07 10:12	
Selenium-IV	0.051	mg/L	0.0010	103	85	115	2.1	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-071203B	
Sample ID: MBLK	Method Blank				Run: SUB-C93669			12/03/07 14:47	
Selenium	ND	mg/L	0.0004						
Sample ID: C07110759-001EMS	Sample Matrix Spike				Run: SUB-C93669			12/03/07 15:12	
Selenium	0.049	mg/L	0.0010	97	85	115			
Sample ID: C07110759-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93669			12/03/07 15:14	
Selenium	0.050	mg/L	0.0010	101	85	115	3.6	10	
Sample ID: 301-119-4	Laboratory Control Sample				Run: SUB-C93669			12/03/07 15:16	
Selenium	0.050	mg/L	0.0010	100	90	110			
Method: A3500-Cr B								Batch: 071120A-CR-HEX-W	
Sample ID: MBLK1_071120A	Method Blank				Run: SPEC1_071120A			11/20/07 17:43	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_071120A	Laboratory Control Sample				Run: SPEC1_071120A			11/20/07 17:46	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Sample ID: R07110229-001DMS	Sample Matrix Spike				Run: SPEC1_071120A			11/20/07 17:46	
Chromium, Hexavalent	0.20	mg/L	0.0050	102	80	120			
Sample ID: R07110229-002DMS	Sample Matrix Spike				Run: SPEC1_071120A			11/20/07 17:47	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Sample ID: R07110229-003DMS	Sample Matrix Spike				Run: SPEC1_071120A			11/20/07 17:48	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Sample ID: R07110229-004DMS	Sample Matrix Spike				Run: SPEC1_071120A			11/20/07 17:48	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Method: A4500-H B								Batch: 071126_1_PH-W	
Sample ID: LCS_pH-1_071126	Laboratory Control Sample				Run: PH_COND2-R_071126A			11/26/07 15:00	
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07110216-001BDUP	Sample Duplicate				Run: PH_COND2-R_071126A			11/26/07 15:05	
pH	8.26	s.u.	0.010				0.2	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2007-11-29_2_NH3_01	
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071129A			11/29/07 14:58	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	90	110			
Sample ID: LFB-5	Laboratory Fortified Blank				Run: TECHAA2-R_071129A			11/29/07 14:59	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	95	90	110			
Sample ID: MBLK-6	Method Blank				Run: TECHAA2-R_071129A			11/29/07 15:00	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: R07110229-001BDUP	Sample Duplicate				Run: TECHAA2-R_071129A			11/29/07 16:37	
Nitrogen, Ammonia as N	ND	mg/L	0.10				0.0	10	
Sample ID: R07110229-002BMS	Sample Matrix Spike				Run: TECHAA2-R_071129A			11/29/07 16:39	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	80	120			
Method: A9222 D								Batch: 071120-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_071120A			11/20/07 09:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						
Sample ID: R07110208-001A	Sample Duplicate				Run: MEMFILT_071120A			11/20/07 09:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	
Method: E200.7								Batch: C_16944	
Sample ID: MB-16944	Method Blank				Run: SUB-C93677			12/03/07 14:51	
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Sample ID: LCS-16944	Laboratory Control Sample				Run: SUB-C93677			12/03/07 15:01	
Boron	0.45	mg/L	0.10	90	85	115			
Iron	0.48	mg/L	0.030	95	85	115			
Sample ID: R07110229-001F	Sample Matrix Spike				Run: SUB-C93677			12/03/07 17:25	
Boron	9.00	mg/L	0.13	88	70	130			
Iron	9.41	mg/L	0.087	89	70	130			
Sample ID: R07110229-001F	Sample Matrix Spike Duplicate				Run: SUB-C93677			12/03/07 17:29	
Boron	9.31	mg/L	0.13	92	70	130	3.4	20	
Iron	9.46	mg/L	0.087	89	70	130	0.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R93677
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93677				12/03/07 12:19
Calcium	ND	mg/L	0.50		85	125			S
Potassium	0.093	mg/L	0.50		85	125			S
Sodium	ND	mg/L	0.76		85	125			S
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93677				12/03/07 12:22
Calcium	26	mg/L	0.50	102	85	125			
Potassium	28	mg/L	0.50	111	85	125			
Sodium	27	mg/L	0.76	109	85	125			
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93677				12/03/07 13:44
Silica	2.0	mg/L	0.10	101	85	125			
Sample ID: C07111052-001EMS1	Sample Matrix Spike				Run: SUB-C93677				12/03/07 17:55
Calcium	61.3	mg/L	0.50	86	70	130			
Potassium	54.4	mg/L	0.50	82	70	130			
Sodium	124	mg/L	0.76	88	70	130			
Sample ID: C07111052-001EMSD1	Sample Matrix Spike Duplicate				Run: SUB-C93677				12/03/07 17:58
Calcium	62.1	mg/L	0.50	87	70	130	1.3	20	
Potassium	55.2	mg/L	0.50	84	70	130	1.5	20	
Sodium	123	mg/L	0.76	86	70	130	0.9	20	
Method: E200.7									Batch: C_R93762
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C93762				12/04/07 10:30
Silica	2.0	mg/L	0.10	99	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C93762				12/04/07 10:33
Magnesium	26	mg/L	0.50	105	85	125			
Potassium	27	mg/L	0.50	110	85	125			
Sample ID: LCS-17008	Laboratory Control Sample				Run: SUB-C93762				12/04/07 11:48
Boron	0.48	mg/L	0.10	95	85	115			
Iron	0.50	mg/L	0.030	99	85	115			
Magnesium	45	mg/L	0.50	91	85	115			
Potassium	47	mg/L	0.50	95	85	115			
Silica	0.49	mg/L	0.10	99	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7_8									Batch: C_R93762
Sample ID: C07110911-007CMS	Sample Matrix Spike				Run: SUB-C93762				12/04/07 12:31
Boron	0.92	mg/L	0.10	92	70	130			
Iron	1.0	mg/L	0.030	88	70	130			
Magnesium	66	mg/L	0.50	82	70	130			
Potassium	110	mg/L	0.50	89	70	130			
Silica	9.9	mg/L	0.10		0	0			A
Sample ID: C07110911-007CMSD	Sample Matrix Spike Duplicate				Run: SUB-C93762				12/04/07 12:34
Boron	0.92	mg/L	0.10	92	70	130	0.5	20	
Iron	1.0	mg/L	0.030	88	70	130	0.5	20	
Magnesium	66	mg/L	0.50	81	70	130	0.6	20	
Potassium	110	mg/L	0.50	86	70	130	3.0	20	
Silica	10.0	mg/L	0.10		70	130	0.7	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16944
Sample ID: MB-16944	Method Blank				Run: SUB-C93362				11/26/07 14:59
Arsenic	ND	mg/L	0.0001						
Barium	0.0003	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	0.0001	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0003	mg/L	5E-05						
Mercury	ND	mg/L	3E-05						
Molybdenum	0.0003	mg/L	0.0002						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0002						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	0.002	mg/L	0.002						
Sample ID: LCS1-16944	Laboratory Control Sample				Run: SUB-C93362				11/26/07 15:07
Arsenic	0.020	mg/L	0.0010	100	80	120			
Barium	0.021	mg/L	0.10	105	80	120			
Cadmium	0.019	mg/L	0.010	96	80	120			
Chromium	0.021	mg/L	0.050	103	80	120			
Copper	0.021	mg/L	0.010	102	80	120			
Lead	0.020	mg/L	0.050	102	80	120			
Manganese	0.020	mg/L	0.010	99	80	120			
Molybdenum	0.020	mg/L	0.10	96	80	120			
Nickel	0.021	mg/L	0.050	103	80	120			
Silver	0.021	mg/L	0.010	105	80	120			
Thorium 232	0.019	mg/L	0.0010	93	80	120			
Uranium	0.019	mg/L	0.00030	95	80	120			
Vanadium	0.020	mg/L	0.10	100	80	120			
Zinc	0.023	mg/L	0.010	102	80	120			
Sample ID: LCS-16944	Laboratory Control Sample				Run: SUB-C93432				11/27/07 22:14
Aluminum	0.52	mg/L	0.10	103	85	115			
Arsenic	0.51	mg/L	0.0013	101	85	115			
Barium	0.49	mg/L	0.10	97	85	115			
Cadmium	0.48	mg/L	0.010	97	85	115			
Chromium	0.49	mg/L	0.050	98	85	115			
Copper	0.51	mg/L	0.010	102	85	115			
Lead	0.49	mg/L	0.050	97	85	115			
Manganese	0.50	mg/L	0.010	100	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16944
Sample ID: LCS-16944	Laboratory Control Sample				Run: SUB-C93432				11/27/07 22:14
Molybdenum	0.47	mg/L	0.10	95	85	115			
Nickel	0.50	mg/L	0.050	101	85	115			
Silver	0.19	mg/L	0.010	96	85	115			
Uranium	0.49	mg/L	0.00038	98	85	115			
Vanadium	0.49	mg/L	0.10	97	85	115			
Zinc	0.52	mg/L	0.017	103	85	115			
Sample ID: R07110229-004F	Post Digestion Spike				Run: SUB-C93565				11/30/07 00:29
Aluminum	0.504	mg/L	0.10	154	70	130			S
Arsenic	0.274	mg/L	0.0010	109	70	130			
Barium	0.326	mg/L	0.10	115	70	130			
Cadmium	0.261	mg/L	0.010	104	70	130			
Chromium	0.266	mg/L	0.050	106	70	130			
Copper	0.253	mg/L	0.010	98	70	130			
Lead	0.277	mg/L	0.050	111	70	130			
Manganese	0.484	mg/L	0.010	109	70	130			
Mercury	0.0290	mg/L	0.0010	116	70	130			
Molybdenum	0.285	mg/L	0.10	113	70	130			
Nickel	0.254	mg/L	0.050	97	70	130			
Silver	0.103	mg/L	0.010	103	70	130			
Thorium 232	0.285	mg/L	0.0010	114	70	130			
Uranium	0.304	mg/L	0.00030	116	70	130			
Vanadium	0.273	mg/L	0.10	109	70	130			
Zinc	0.265	mg/L	0.010	97	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110229-004F	Post Digestion Spike Duplicate				Run: SUB-C93565				11/30/07 00:36
Aluminum	0.661	mg/L	0.10	217	70	130	27	20	SR
Arsenic	0.270	mg/L	0.0010	108	70	130	1.2	20	
Barium	0.321	mg/L	0.10	113	70	130	1.6	20	
Cadmium	0.265	mg/L	0.010	105	70	130	1.5	20	
Chromium	0.266	mg/L	0.050	106	70	130	0.0	20	
Copper	0.256	mg/L	0.010	100	70	130	1.2	20	
Lead	0.277	mg/L	0.050	111	70	130	0.2	20	
Manganese	0.485	mg/L	0.010	109	70	130	0.1	20	
Mercury	0.0287	mg/L	0.0010	115	70	130	0.7	20	
Molybdenum	0.288	mg/L	0.10	114	70	130	1.1	20	
Nickel	0.263	mg/L	0.050	101	70	130	3.3	20	
Silver	0.107	mg/L	0.010	107	70	130	3.4	20	
Thorium 232	0.292	mg/L	0.0010	117	70	130	2.2	20	
Uranium	0.305	mg/L	0.00030	116	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_16944
Sample ID: R07110229-004F	Post Digestion Spike Duplicate				Run: SUB-C93565				11/30/07 00:36
Vanadium	0.271	mg/L	0.10	109	70	130	0.6	20	
Zinc	0.283	mg/L	0.010	104	70	130	6.3	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Method: E200.8									Batch: C_17017
Sample ID: MB-17017	Method Blank				Run: SUB-C93696				12/03/07 13:01
Thorium 232	0.0002	mg/L							
Uranium	ND	mg/L	4E-05						
Sample ID: LCS1-17017	Laboratory Control Sample				Run: SUB-C93696				12/03/07 13:09
Uranium	0.0631	mg/L	0.00030	100	80	120			
Sample ID: R07110229-004K	Post Digestion Spike				Run: SUB-C93696				12/03/07 13:54
Thorium 232	0.0252	mg/L	0.0010	105	70	130			
Uranium	0.0250	mg/L	0.00030	105	70	130			
Sample ID: R07110229-004K	Post Digestion Spike Duplicate				Run: SUB-C93696				12/03/07 14:24
Thorium 232	0.0257	mg/L	0.0010	107	70	130	2.0	20	
Uranium	0.0253	mg/L	0.00030	106	70	130	1.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93352
Sample ID: LRB	Method Blank				Run: SUB-C93352				11/26/07 11:53
Aluminum	0.002	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Chromium	ND	mg/L	4E-05						
Copper	0.0001	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						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93352				11/26/07 12:00
Aluminum	0.0525	mg/L	0.0010	102	85	115			
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Barium	0.0518	mg/L	0.0010	103	85	115			
Cadmium	0.0519	mg/L	0.0010	104	85	115			
Chromium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0523	mg/L	0.0010	104	85	115			
Manganese	0.0516	mg/L	0.0010	103	85	115			
Mercury	0.00513	mg/L	0.0010	103	85	115			
Molybdenum	0.0515	mg/L	0.0010	103	85	115			
Nickel	0.0513	mg/L	0.0010	103	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0518	mg/L	0.00030	104	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0533	mg/L	0.0010	103	85	115			
Sample ID: R07110184-004C	Post Digestion Spike				Run: SUB-C93352				11/26/07 19:09
Arsenic	0.507	mg/L	0.0010	101	70	130			
Barium	0.523	mg/L	0.10	100	70	130			
Cadmium	0.508	mg/L	0.010	102	70	130			
Chromium	0.515	mg/L	0.050	102	70	130			
Copper	0.513	mg/L	0.010	102	70	130			
Lead	0.512	mg/L	0.050	102	70	130			
Manganese	0.826	mg/L	0.010	99	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R93352	
Sample ID: R07110184-004C	Post Digestion Spike				Run: SUB-C93352			11/26/07 19:09	
Mercury	0.0531	mg/L	0.0010	106	70	130			
Molybdenum	0.508	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Thorium 232	0.508	mg/L	0.0010	102	70	130			
Uranium	0.505	mg/L	0.00030	101	70	130			
Vanadium	0.514	mg/L	0.10	103	70	130			
Zinc	0.421	mg/L	0.010	84	70	130			
Sample ID: R07110184-004C	Post Digestion Spike Duplicate				Run: SUB-C93352			11/26/07 19:29	
Arsenic	0.517	mg/L	0.0010	103	70	130	2.0	20	
Barium	0.525	mg/L	0.10	100	70	130	0.3	20	
Cadmium	0.515	mg/L	0.010	103	70	130	1.3	20	
Chromium	0.520	mg/L	0.050	103	70	130	0.9	20	
Copper	0.512	mg/L	0.010	102	70	130	0.1	20	
Lead	0.518	mg/L	0.050	104	70	130	1.1	20	
Manganese	0.830	mg/L	0.010	100	70	130	0.5	20	
Mercury	0.0529	mg/L	0.0010	106	70	130	0.4	20	
Molybdenum	0.516	mg/L	0.10	103	70	130	1.5	20	
Nickel	0.518	mg/L	0.050	104	70	130	1.1	20	
Thorium 232	0.510	mg/L	0.0010	102	70	130	0.4	20	
Uranium	0.507	mg/L	0.00030	101	70	130	0.3	20	
Vanadium	0.523	mg/L	0.10	105	70	130	1.9	20	
Zinc	0.445	mg/L	0.010	89	70	130	5.7	20	
Sample ID: C07110998-002BMS4	Post Digestion Spike				Run: SUB-C93352			11/26/07 23:14	
Arsenic	0.0539	mg/L	0.0010	104	70	130			
Barium	0.458	mg/L	0.10		70	130			A
Cadmium	0.0478	mg/L	0.010	95	70	130			
Chromium	0.0479	mg/L	0.050	92	70	130			
Copper	0.0528	mg/L	0.010	93	70	130			
Lead	0.0524	mg/L	0.050	105	70	130			
Manganese	0.0468	mg/L	0.010	92	70	130			
Mercury	0.00541	mg/L	0.0010	106	70	130			
Molybdenum	0.0527	mg/L	0.10	104	70	130			
Nickel	0.0542	mg/L	0.050	97	70	130			
Thorium 232	0.0557	mg/L	0.0010	111	70	130			
Uranium	0.126	mg/L	0.00030	106	70	130			
Vanadium	0.0514	mg/L	0.10	96	70	130			
Zinc	0.0408	mg/L	0.010	80	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R93352	
Sample ID: C07110998-002BMSD4	Post Digestion Spike Duplicate				Run: SUB-C93352			11/26/07 23:20	
Arsenic	0.0524	mg/L	0.0010	101	70	130	2.8	20	
Barium	0.459	mg/L	0.10		70	130	0.1	20	A
Cadmium	0.0471	mg/L	0.010	93	70	130	1.4	20	
Chromium	0.0482	mg/L	0.050	93	70	130	0.0	20	
Copper	0.0517	mg/L	0.010	91	70	130	2.1	20	
Lead	0.0518	mg/L	0.050	104	70	130	1.2	20	
Manganese	0.0467	mg/L	0.010	92	70	130	0.2	20	
Mercury	0.00555	mg/L	0.0010	109	70	130	2.5	20	
Molybdenum	0.0534	mg/L	0.10	105	70	130	0.0	20	
Nickel	0.0529	mg/L	0.050	95	70	130	2.4	20	
Thorium 232	0.0554	mg/L	0.0010	111	70	130	0.6	20	
Uranium	0.125	mg/L	0.00030	104	70	130	0.9	20	
Vanadium	0.0520	mg/L	0.10	97	70	130	0.0	20	
Zinc	0.0445	mg/L	0.010	87	70	130	8.5	20	
Method: E200.8								Batch: C_R93432	
Sample ID: LRB	Method Blank				Run: SUB-C93432			11/27/07 14:37	
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93432			11/27/07 14:44	
Silver	0.0434	mg/L	0.0010	109	85	115			
Sample ID: C07110770-011BMS4	Post Digestion Spike				Run: SUB-C93432			11/28/07 00:59	
Silver	0.174	mg/L	0.010	87	70	130			
Sample ID: C07110770-011BMSD4	Post Digestion Spike Duplicate				Run: SUB-C93432			11/28/07 01:07	
Silver	0.183	mg/L	0.010	91	70	130	5.0	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32339
Sample ID: LFB0711202015-3	Laboratory Fortified Blank				Run: DIONEX_071120A				11/20/07 19:38
Chloride	4.65	mg/L	0.50	93	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.48	mg/L	0.10	99	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: LFB0711202015-4	Laboratory Fortified Blank				Run: DIONEX_071120A				11/20/07 19:54
Chloride	4.68	mg/L	0.50	94	90	110			
Fluoride	1.95	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.40	mg/L	0.10	96	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: R07110229-001AMS	Sample Matrix Spike				Run: DIONEX_071120A				11/20/07 20:58
Chloride	257	mg/L	0.80	81	80	120			
Fluoride	39.6	mg/L	1.3	99	80	120			
Nitrogen, Nitrate as N	46.7	mg/L	0.34	93	80	120			
Sulfate	4900	mg/L	14		80	120			A
Sample ID: R07110229-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071120A				11/20/07 21:13
Chloride	254	mg/L	0.80	78	80	120	1.3	10	S
Fluoride	39.1	mg/L	1.3	98	80	120	1.3	10	
Nitrogen, Nitrate as N	45.7	mg/L	0.34	91	80	120	2.3	10	
Sulfate	4840	mg/L	14		80	120	1.3	10	A
Sample ID: R07110229-004AMS	Sample Matrix Spike				Run: DIONEX_071120A				11/20/07 23:37
Chloride	972	mg/L	0.80		80	120			A
Fluoride	40.6	mg/L	1.3	101	80	120			
Nitrogen, Nitrate as N	48.5	mg/L	0.34	97	80	120			
Sulfate	2620	mg/L	14		80	120			A
Sample ID: R07110229-004AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071120A				11/20/07 23:53
Chloride	973	mg/L	0.80		80	120	0.1	10	A
Fluoride	40.0	mg/L	1.3	100	80	120	1.5	10	
Nitrogen, Nitrate as N	44.9	mg/L	0.34	90	80	120	7.7	10	
Sulfate	2630	mg/L	14		80	120	0.3	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32359
Sample ID: LFB0711215036-3	Laboratory Fortified Blank				Run: DIONEX_071121A				11/21/07 18:12
Chloride	4.87	mg/L	0.50	97	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: LFB0711215036-4	Laboratory Fortified Blank				Run: DIONEX_071121A				11/21/07 18:28
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R07110255-001BMS	Sample Matrix Spike				Run: DIONEX_071121A				11/21/07 19:00
Chloride	24.4	mg/L	0.50		80	120			A
Sulfate	38.4	mg/L	1.0	81	80	120			
Sample ID: R07110255-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071121A				11/21/07 19:16
Chloride	24.6	mg/L	0.50		80	120	0.9	10	A
Sulfate	38.3	mg/L	1.0	81	80	120	0.2	10	
Method: E900.0									Batch: C_GrAB-0362
Sample ID: MB-GrAB-0362	Method Blank				Run: SUB-C93940				12/05/07 03:47
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0362	Laboratory Control Sample				Run: SUB-C93940				12/05/07 03:47
Gross Alpha	300	pCi/L	1.0	105	70	130			
Sample ID: Cs137-GrAB-0362	Laboratory Control Sample				Run: SUB-C93940				12/05/07 03:47
Gross Beta	90	pCi/L	2.0	91	70	130			
Sample ID: C07110703-001AMS	Sample Matrix Spike				Run: SUB-C93940				12/05/07 03:47
Gross Alpha	221	pCi/L	1.0	90	70	130			
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93940				12/05/07 03:47
Gross Alpha	195	pCi/L	1.0	79	70	130	13	13	
Sample ID: C07110703-001AMS	Sample Matrix Spike				Run: SUB-C93940				12/05/07 03:47
Gross Beta	72.2	pCi/L	2.0	68	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 low response is considered to be matrix related. The batch is approved.									
Sample ID: C07110703-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93940				12/05/07 03:47
Gross Beta	86.6	pCi/L	2.0	83	70	130	18	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1								Batch: C_R93522	
Sample ID: LCS-R93522	Laboratory Control Sample				Run: SUB-C93522			11/28/07 11:35	
Cesium 137	1160	pCi/L	20	82	70	130			
Potassium 40	7190	pCi/L	20	108	70	130			
Sample ID: MB-R93522	Method Blank				Run: SUB-C93522			11/28/07 11:35	
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Sample ID: R07110229-002I	Sample Duplicate				Run: SUB-C93522			11/28/07 11:35	
Bismuth 212	ND	pCi/L	20				0.0	30	
Bismuth 214	ND	pCi/L	20				0.0	30	
Cesium 134	ND	pCi/L	20				0.0	30	
Cesium 137	ND	pCi/L	20				0.0	30	
Cobalt 60	ND	pCi/L	20				0.0	30	
Iodine 125	ND	pCi/L	20				0.0	30	
Iodine 131	ND	pCi/L	20				0.0	30	
Lead 212	ND	pCi/L	20				0.0	30	
Lead 214	ND	pCi/L	20				0.0	30	
Manganese 54	ND	pCi/L	20				0.0	30	
Potassium 40	ND	pCi/L	20				0.0	30	
Radium 223	ND	pCi/L	20				0.0	30	
Radium 224	ND	pCi/L	20				0.0	30	
Thallium 208	ND	pCi/L	20				0.0	30	
Thorium 228	ND	pCi/L	20				0.0	30	
Thorium 234	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R93522
Sample ID: R07110229-002I	Sample Duplicate				Run: SUB-C93522				11/28/07 11:35
Zinc 65	ND	pCi/L	20				0.0	30	
Radium 228	ND	pCi/L	20				0.0	30	
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0									Batch: C_RA226-2461
Sample ID: C07110974-001DMS	Sample Matrix Spike				Run: SUB-C93741				12/04/07 15:46
Radium 226	20	pCi/L	0.20	92	70	130			
Sample ID: C07110974-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C93741				12/04/07 17:06
Radium 226	23	pCi/L	0.20	103	70	130	11	29.7	
Sample ID: MB-RA226-2461	Method Blank				Run: SUB-C93741				12/04/07 17:06
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2461	Laboratory Control Sample				Run: SUB-C93741				12/04/07 17:06
Radium 226	12	pCi/L	0.20	95	70	130			
Method: E907.0									Batch: C_17017
Sample ID: MB-17017	Method Blank				Run: SUB-C94041				12/05/07 15:00
Thorium 230	ND	pCi/L	0.2						
Sample ID: C07111076-001ADUP	Sample Duplicate				Run: SUB-C94041				12/05/07 15:00
Thorium 230	ND	pCi/Filter	0.20				0.0	30	
Sample ID: C07111076-002AMS	Sample Matrix Spike				Run: SUB-C94041				12/05/07 15:00
Thorium 230	63.9	pCi/Filter	0.20	116	70	130			
Method: E907.0									Batch: C_R93936
Sample ID: LCS-R93936	Laboratory Control Sample				Run: SUB-C93936				11/29/07 14:30
Thorium 230	6.40	pCi/L	0.20	108	70	130			
Sample ID: C07110728-007AMS	Sample Matrix Spike				Run: SUB-C93936				11/29/07 14:30
Thorium 230	69.2	pCi/L	0.20	118	70	130			
Sample ID: C07110728-007AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93936				11/29/07 14:30
Thorium 230	60.3	pCi/L	0.20	103	70	130	14	30	
Sample ID: MB-R93936	Method Blank				Run: SUB-C93936				11/29/07 14:30
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_17017
Sample ID: C07111199-002AMS	Sample Matrix Spike				Run: SUB-C93925				12/04/07 11:15
Lead 210	786	pCi/Filter	1.0	68	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 low response is considered to be matrix related. The batch is approved.									
Sample ID: C07111199-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93925				12/04/07 11:15
Lead 210	679	pCi/Filter	1.0	55	70	130	15	30	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 low response is considered to be matrix related. The batch is approved.									
Sample ID: MB-R93925	Method Blank				Run: SUB-C93925				12/04/07 11:15
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93925	Laboratory Control Sample				Run: SUB-C93925				12/04/07 11:15
Lead 210	64	pCi/L	1.0	80	70	130			
Method: E909.0M									Batch: C_R93744
Sample ID: C07110947-004AMS	Sample Matrix Spike				Run: SUB-C93744				11/27/07 08:00
Lead 210	400	pCi/L	1.0	99	70	130			
Sample ID: C07110947-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C93744				11/27/07 08:00
Lead 210	400	pCi/L	1.0	100	70	130	1.1	30	
Sample ID: MB-R93744	Method Blank				Run: SUB-C93744				11/27/07 08:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R93744	Laboratory Control Sample				Run: SUB-C93744				11/27/07 08:00
Lead 210	70	pCi/L	1.0	87	70	130			
Method: RMO-3008									Batch: C_17017
Sample ID: LCS-17017	Laboratory Control Sample				Run: SUB-C93991				12/05/07 12:00
Polonium 210	16	pCi/L	1.0	73	70	130			
Sample ID: MB-17017	Method Blank				Run: SUB-C93991				12/05/07 12:00
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/29/08
Work Order: R07110229

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R93732
Sample ID: C07110982-002EMS	Sample Matrix Spike				Run: SUB-C93732				11/28/07 12:30
Polonium 210	190	pCi/L	1.0	85	70	130			
Sample ID: C07110982-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C93732				11/28/07 12:30
Polonium 210	200	pCi/L	1.0	87	70	130	2.0	30	
Sample ID: LCS-R93732	Laboratory Control Sample				Run: SUB-C93732				11/28/07 12:30
Polonium 210	19	pCi/L	1.0	84	70	130			
Sample ID: MB-R93732	Method Blank				Run: SUB-C93732				11/28/07 12:30
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc.: Powertech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: RESPEC	Contact Name: cory.foreman@respec.com Phone/Fax: 394-6800	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address: RESPEC	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

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

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: SW

Shipped by:
Cooler ID(s):
Receipt Temp 4.2 °C on ice
On Ice: Yes No
Custody Seal Y N
Intact Y N
Signature Match Y N

ANALYSIS REQUESTED: As per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

	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)	Comments	LABORATORY USE ONLY
1	Dew Burd CHR01	11/19/07	0945	W	Bottle Set 5	B0711022 9-001
2	Dew Burd BVC01	11/19/07	1130	W	Set 6	002
3	Dew Burd BVC04	11/19/07	1230	W	Set 9	003
4	Dew Burd CHR05	11/19/07	15:00	W	Set 11	004
5						
6						
7						
8						
9						
10						

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	11/17/07 1730	[signature]	Steve Froiland	11-19-07 1730	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

January 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07110302 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 11/28/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07110302-001	DewBurdSub08	11/27/07 8:35	11/28/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07110302-002	DewBurdSub06	11/27/07 9:36	11/28/07	Aqueous	Same As Above
R07110302-003	DewBurdSub11	11/27/07 10:08	11/28/07	Aqueous	Same As Above
R07110302-004	DewBurdBK01	11/27/07 21:45	11/28/07	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-001
Client Sample ID: DewBurdSub08

Report Date: 01/30/08
Collection Date: 11/27/07 08:35
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	136	mg/L		5		1	A2320 B	12/11/07 18:01/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:01/sn
Bicarbonate as HCO3	166	mg/L		5		1	A2320 B	12/11/07 18:01/sn
Calcium	134	mg/L		0.5		1	E200.7	12/19/07 16:56/eli-c
Chloride	26	mg/L		1		5	E300.0	11/30/07 01:44/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	11/29/07 00:03/jmh
Magnesium	55.9	mg/L		0.5		1	E200.7	12/19/07 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:00/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	11/29/07 00:03/jmh
Potassium	13	mg/L		1		1	E200.7	12/19/07 16:56/eli-c
Silica	7.0	mg/L		0.5		1	E200.7	12/19/07 16:56/eli-c
Sodium	576	mg/L	D	8		10	E200.7	12/19/07 15:18/eli-c
Sulfate	1580	mg/L	D	40		50	E300.0	11/28/07 23:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3160	umhos/cm		5.0		1	A2510 B	12/02/07 13:22/jmh
pH	7.59	s.u.		0.01		1	A4500-H B	12/02/07 13:43/jmh
Sodium Adsorption Ratio (SAR)	11	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	12/04/07 15:16/jmh
Solids, Total Dissolved TDS @ 180 C	2600	mg/L		5		1	A2540 C	12/03/07 13:35/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	12/03/07 12:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/08/07 00:13/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/08/07 00:13/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:13/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	12/19/07 16:56/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/08/07 00:13/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:13/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/08/07 00:13/eli-c
Iron	ND	mg/L		0.03		1	E200.7	12/19/07 16:56/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/08/07 00:13/eli-c
Manganese	0.09	mg/L		0.01		10	E200.8	12/08/07 00:13/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:13/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:13/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-001
Client Sample ID: DewBurdSub08

Report Date: 01/30/08
Collection Date: 11/27/07 08:35
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	12/08/07 00:13/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:13/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	12/08/07 00:13/eli-c
Uranium	0.0028	mg/L		0.0003		10	E200.8	12/08/07 00:13/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:13/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	12/08/07 00:13/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/13/07 20:36/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8	12/13/07 20:36/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/07 03:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/29/07 03:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/01/08 05:43/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	01/02/08 18:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/29/07 03:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 03:47/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/28/07 15:06/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1	E200.8	12/29/07 03:47/eli-c
Iron	0.10	mg/L		0.03		1	E200.7	01/02/08 18:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/29/07 03:47/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/29/07 03:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 03:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 03:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/01/08 05:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 03:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/29/07 03:47/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	12/29/07 03:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 03:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/29/07 03:47/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 10:26/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:34/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-001
Client Sample ID: DewBurdSub08

Report Date: 01/30/08
Collection Date: 11/27/07 08:35
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:01/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:20/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	0.5	pCi/L		0.2		1	E903.0	12/18/07 01:54/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/18/07 01:54/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/17/07 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 11:19/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	4.8	pCi/L		1.0		1	E900.0	12/19/07 21:05/eli-c
Gross Alpha precision (±)	2.5	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Beta	9.7	pCi/L		2.0		1	E900.0	12/19/07 21:05/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	4.6	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.3	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.5	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	0.5	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
DATA QUALITY								
A/C Balance (± 5)	0.414	%				1	A1030 E	01/16/08 18:44/sec
Anions	36.4	meq/L				1	A1030 E	01/16/08 18:44/sec
Cations	36.7	meq/L				1	A1030 E	01/16/08 18:44/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-001
Client Sample ID: DewBurdSub08

Report Date: 01/30/08
Collection Date: 11/27/07 08:35
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	2470	mg/L				1	A1030 E	01/16/08 18:44/sec
TDS Balance (0.80 - 1.20)	1.05	dec. %				1	A1030 E	01/16/08 18:44/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-002
Client Sample ID: DewBurdSub06

Report Date: 01/30/08
Collection Date: 11/27/07 09:36
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:02/sn
Calcium	471	mg/L	D	1		10	E200.7	12/19/07 15:21/eli-c
Chloride	7	mg/L		1		1	E300.0	11/29/07 01:39/jmh
Fluoride	5.5	mg/L		0.1		1	E300.0	11/29/07 01:39/jmh
Magnesium	707	mg/L		0.5		10	E200.7	12/19/07 15:21/eli-c
Nitrogen, Ammonia as N	3.4	mg/L	D	0.2		10	A4500-NH3 G	12/04/07 16:03/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	11/29/07 01:39/jmh
Potassium	29	mg/L		1		1	E200.7	12/19/07 16:59/eli-c
Silica	34.1	mg/L		0.5		10	E200.7	12/19/07 15:21/eli-c
Sodium	86.1	mg/L	D	0.8		1	E200.7	12/19/07 16:59/eli-c
Sulfate	5700	mg/L	D	40		50	E300.0	11/29/07 00:51/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6390	umhos/cm		5.0		1	A2510 B	12/02/07 13:23/jmh
pH	3.20	s.u.		0.01		1	A4500-H B	12/02/07 13:44/jmh
Sodium Adsorption Ratio (SAR)	0.59	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	12/04/07 15:17/jmh
Solids, Total Dissolved TDS @ 180 C	8600	mg/L		5		1	A2540 C	12/03/07 13:36/jmh
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	12/03/07 12:18/jmh
METALS - DISSOLVED								
Aluminum	131	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	01/07/08 21:17/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/19/07 16:59/eli-c
Cadmium	0.026	mg/L		0.005		1	E200.8	01/07/08 21:17/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:20/eli-c
Copper	0.10	mg/L		0.01		1	E200.8	01/07/08 21:17/eli-c
Iron	5.74	mg/L		0.03		1	E200.7	12/19/07 16:59/eli-c
Lead	0.001	mg/L		0.001		10	E200.8	12/08/07 00:20/eli-c
Manganese	249	mg/L		0.01		10	E200.7	12/19/07 15:21/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:20/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-002
Client Sample ID: DewBurdSub06

Report Date: 01/30/08
Collection Date: 11/27/07 09:36
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	5.58	mg/L		0.01		10	E200.8	12/08/07 00:20/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:20/eli-c
Thorium 232	0.010	mg/L		0.005		10	E200.8	12/08/07 00:20/eli-c
Uranium	5.84	mg/L		0.0003		1	E200.8	01/07/08 21:17/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:20/eli-c
Zinc	4.45	mg/L		0.01		1	E200.8	01/07/08 21:17/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/13/07 20:43/eli-c
Uranium	0.0013	mg/L		0.0003		1	E200.8	12/13/07 20:43/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	01/07/08 21:24/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/02/08 18:54/eli-c
Cadmium	0.027	mg/L		0.005		1	E200.8	01/07/08 21:24/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 03:55/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.02		5	A3500-Cr B	11/28/07 15:40/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	0.10	mg/L		0.01		1	E200.8	01/07/08 21:24/eli-c
Iron	5.93	mg/L		0.03		1	E200.7	01/02/08 18:54/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	12/29/07 03:55/eli-c
Manganese	246	mg/L		0.01		10	E200.7	01/02/08 15:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 03:55/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/29/07 03:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 03:55/eli-c
Thorium 232	0.010	mg/L		0.005		1	E200.8	12/29/07 03:55/eli-c
Uranium	5.83	mg/L		0.0003		1	E200.8	01/07/08 21:24/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 03:55/eli-c
Zinc	4.46	mg/L		0.01		1	E200.8	01/07/08 21:24/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.014	mg/L		0.001		1	A3114 B	12/30/07 10:28/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:36/eli-c
Selenium-VI	0.014	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-002
Client Sample ID: DewBurdSub06

Report Date: 01/30/08
Collection Date: 11/27/07 09:36
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.013	mg/L		0.001		1	A3114 B	12/30/07 11:03/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:22/eli-c
Selenium-VI	0.013	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	1.7	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	2.0	pCi/L		0.2		1	E903.0	12/18/07 02:54/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	12/18/07 02:54/eli-c
Thorium 230	27.8	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
Thorium 230 precision (±)	9.7	pCi/L				1	E907.0	12/27/07 15:15/eli-c
- Th230 was analyzed on two separate aliquots with low tracer recoveries; this poor response is matrix related.								
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 11:19/eli-c
Thorium 230	1	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6780	pCi/L		1.0		1	E900.0	12/30/07 04:12/eli-c
Gross Alpha precision (±)	47.0	pCi/L				1	E900.0	12/30/07 04:12/eli-c
Gross Beta	3200	pCi/L		2.0		1	E900.0	12/30/07 04:12/eli-c
Gross Beta precision (±)	42.3	pCi/L				1	E900.0	12/30/07 04:12/eli-c
Gross Gamma	264	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	88.5	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	3.1	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	2.1	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	2.0	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	28.8	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
Thorium 230 precision (±)	9.7	pCi/L				1	E907.0	01/05/08 14:23/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-002
Client Sample ID: DewBurdSub06

Report Date: 01/30/08
Collection Date: 11/27/07 09:36
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
A/C Balance (± 5)	-0.00889	%				1	A1030 E	01/17/08 13:51/sec
Anions	119	meq/L				1	A1030 E	01/17/08 13:51/sec
Cations	119	meq/L				1	A1030 E	01/17/08 13:51/sec
Solids, Total Dissolved Calculated	7020	mg/L				1	A1030 E	01/17/08 13:51/sec
TDS Balance (0.80 - 1.20)	1.23	dec. %				1	A1030 E	01/17/08 13:51/sec

- TDS balance may have been adversely affected by hydratable solids (Sodium and Magnesium Sulfates).

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-003
Client Sample ID: DewBurdSub11

Report Date: 01/30/08
Collection Date: 11/27/07 10:08
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	56	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Bicarbonate as HCO3	68	mg/L		5		1	A2320 B	12/11/07 18:04/sn
Calcium	14.8	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Chloride	2	mg/L		1		1	E300.0	11/29/07 02:11/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	11/29/07 02:11/jmh
Magnesium	4.2	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Nitrogen, Ammonia as N	2.1	mg/L	D	0.2		10	A4500-NH3 G	12/04/07 16:05/sn
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	11/29/07 02:11/jmh
Potassium	11	mg/L		1		1	E200.7	12/19/07 17:03/eli-c
Silica	7.1	mg/L		0.5		1	E200.7	12/19/07 17:03/eli-c
Sodium	5.1	mg/L	D	0.8		1	E200.7	12/19/07 17:03/eli-c
Sulfate	25	mg/L		1		1	E300.0	11/29/07 02:11/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	188	umhos/cm		5.0		1	A2510 B	12/02/07 13:24/jmh
pH	6.41	s.u.		0.01		1	A4500-H B	12/02/07 13:46/jmh
Sodium Adsorption Ratio (SAR)	0.30	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	120	mg/L		5		1	D3977	12/04/07 15:18/jmh
Solids, Total Dissolved TDS @ 180 C	140	mg/L	H	5		1	A2540 C	01/23/08 15:08/ch
Solids, Total Suspended TSS @ 105 C	120	mg/L		5		1	A2540 D	12/03/07 15:30/jmh
- H-Original analysis was done within hold time. Data is from recheck analysis.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/19/07 17:03/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Iron	0.61	mg/L		0.03		1	E200.7	12/19/07 17:03/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Manganese	1.52	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:26/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-003
Client Sample ID: DewBurdSub11

Report Date: 01/30/08
Collection Date: 11/27/07 10:08
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	12/08/07 00:26/eli-c
Uranium	0.0009	mg/L		0.0003		10	E200.8	12/08/07 00:26/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:26/eli-c
Zinc	0.03	mg/L		0.01		10	E200.8	12/08/07 00:26/eli-c
METALS - SUSPENDED								
Thorium 232	0.001	mg/L		0.001		1	E200.8	12/13/07 20:49/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	12/13/07 20:49/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Arsenic	0.005	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/01/08 05:50/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/02/08 18:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 04:03/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/28/07 15:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
Iron	31.8	mg/L		0.03		1	E200.7	01/02/08 18:57/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Manganese	1.66	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 04:03/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/01/08 05:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/29/07 04:03/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8	12/29/07 04:03/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 04:03/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/29/07 04:03/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 10:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-003
Client Sample ID: DewBurdSub11

Report Date: 01/30/08
Collection Date: 11/27/07 10:08
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:06/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:24/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/18/07 03:55/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
- Th230 was analyzed on two separate aliquots with low tracer recoveries; this poor response is matrix related.								
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 11:19/eli-c
Thorium 230	3.0	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	2.0	pCi/L		1.0		1	E900.0	12/19/07 21:05/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Beta	9.1	pCi/L		2.0		1	E900.0	12/19/07 21:05/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	1100	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	202	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	3.0	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	01/05/08 14:23/sec
DATA QUALITY								
A/C Balance (± 5)	4.50	%				1	A1030 E	01/24/08 14:34/sec
Anions	1.72	meq/L				1	A1030 E	01/24/08 14:34/sec
Cations	1.88	meq/L				1	A1030 E	01/24/08 14:34/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-003
Client Sample ID: DewBurdSub11

Report Date: 01/30/08
Collection Date: 11/27/07 10:08
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	97.0	mg/L				1	A1030 E	01/24/08 14:34/sec
TDS Balance (0.80 - 1.20)	1.48	dec. %				1	A1030 E	01/24/08 14:34/sec

- The TDS has been rechecked, the TDS balance may not be appropriate for low sample results. This batch is approved.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-004
Client Sample ID: DewBurdBK01

Report Date: 01/30/08
Collection Date: 11/27/07 21:45
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	11/28/07 10:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:07/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/11/07 18:07/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/11/07 18:07/sn
Calcium	ND	mg/L		0.5		1	E200.7	12/19/07 17:06/eli-c
Chloride	ND	mg/L		1		1	E300.0	11/29/07 02:26/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	11/29/07 02:26/jmh
Magnesium	ND	mg/L		0.5		1	E200.7	12/19/07 17:06/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/04/07 16:06/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	11/29/07 02:26/jmh
Potassium	ND	mg/L		1		1	E200.7	12/19/07 17:06/eli-c
Silica	ND	mg/L		0.5		1	E200.7	12/19/07 17:06/eli-c
Sodium	ND	mg/L	D	0.8		1	E200.7	12/19/07 17:06/eli-c
Sulfate	ND	mg/L		1		1	E300.0	11/29/07 02:26/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/02/07 13:27/jmh
pH	5.52	s.u.		0.01		1	A4500-H B	12/02/07 13:48/jmh
Sodium Adsorption Ratio (SAR)	0.16	meq/L		0.10		1	Calculation	01/16/08 18:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	12/04/07 15:18/jmh
Solids, Total Dissolved TDS @ 180 C	6	mg/L	H	5		1	A2540 C	01/31/08 14:59/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	12/03/07 12:20/jmh
Initial analysis within hold. Analysis rechecked and value reported.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	12/08/07 00:33/eli-c
Arsenic	ND	mg/L		0.001		10	E200.8	12/08/07 00:33/eli-c
Barium	ND	mg/L		0.1		10	E200.8	12/08/07 00:33/eli-c
Boron	ND	mg/L		0.1		1	E200.7	12/19/07 17:06/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	12/08/07 00:33/eli-c
Chromium	ND	mg/L		0.01		10	E200.8	12/08/07 00:33/eli-c
Copper	ND	mg/L		0.01		10	E200.8	12/08/07 00:33/eli-c
Iron	0.08	mg/L		0.03		1	E200.7	12/19/07 17:06/eli-c
Lead	ND	mg/L		0.001		10	E200.8	12/08/07 00:33/eli-c
Manganese	ND	mg/L		0.01		10	E200.8	12/08/07 00:33/eli-c
Mercury	ND	mg/L		0.001		10	E200.8	12/08/07 00:33/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	12/08/07 00:33/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-004
Client Sample ID: DewBurdBK01

Report Date: 01/30/08
Collection Date: 11/27/07 21:45
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		10	E200.8	12/08/07 00:33/eli-c
Silver	ND	mg/L		0.005		10	E200.8	12/08/07 00:33/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	12/08/07 00:33/eli-c
Uranium	ND	mg/L		0.0003		10	E200.8	12/08/07 00:33/eli-c
Vanadium	ND	mg/L		0.1		10	E200.8	12/08/07 00:33/eli-c
Zinc	0.02	mg/L		0.01		10	E200.8	12/08/07 00:33/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/13/07 20:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/13/07 20:56/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/29/07 04:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/29/07 04:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/29/07 04:33/eli-c
Boron	ND	mg/L		0.1		1	E200.7	01/02/08 19:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/29/07 04:33/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/29/07 04:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	11/28/07 15:08/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/16/08 18:32/sec
Copper	ND	mg/L		0.01		1	E200.8	12/29/07 04:33/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	01/02/08 19:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/29/07 04:33/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/29/07 04:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/29/07 04:33/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/29/07 04:33/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/29/07 04:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/29/07 04:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/29/07 04:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/29/07 04:33/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/29/07 04:33/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/29/07 04:33/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 10:32/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07110302-004
Client Sample ID: DewBurdBK01

Report Date: 01/30/08
Collection Date: 11/27/07 21:45
Date Received: 11/28/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:27/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/10/07 07:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/10/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/18/07 04:55/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/17/07 16:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/13/07 08:00/eli-c
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	12/18/07 12:00/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	12/18/07 12:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/19/07 12:26/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/12/07 16:10/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	12/19/07 21:05/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	12/19/07 21:05/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.0	pCi/L		1.0		1	RMO-3008	01/05/08 14:23/sec
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	01/05/08 14:23/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/05/08 14:23/sec
DATA QUALITY								
Anions	ND	meq/L				1	A1030 E	01/16/08 18:50/sec
Cations	0.00526	meq/L				1	A1030 E	01/16/08 18:50/sec

- The Ion and TDS balances are not appropriate for near blank results.

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071211A-ALK-SEL-W	
Sample ID: MBLK1_071211A	Method Blank				Run: PH_COND1-R_071211A			12/11/07 17:56	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_071211A	Laboratory Control Sample				Run: PH_COND1-R_071211A			12/11/07 17:57	
Alkalinity, Total as CaCO3	1010	mg/L	5.0	101	90	110			
Sample ID: R07110303-008AMS	Sample Matrix Spike				Run: PH_COND1-R_071211A			12/11/07 18:30	
Alkalinity, Total as CaCO3	16.0	mg/L	5.0	11	80	120			S
- S=Surrogate recovery outside QC advisory limits due to sample matrix interference.									
Sample ID: R07110303-008AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_071211A			12/11/07 18:30	
Alkalinity, Total as CaCO3	18.0	mg/L	5.0	13	80	120	12	10	SR
- S=Surrogate recovery outside QC advisory limits due to sample matrix interference.									
Method: A2510 B								Batch: 071202_1_COND-PROBE-W	
Sample ID: LCS1-1_071202	Laboratory Control Sample				Run: PH_COND2-R_071202A			12/02/07 13:11	
Conductivity @ 25 C	152	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_071202	Laboratory Control Sample				Run: PH_COND2-R_071202A			12/02/07 13:12	
Conductivity @ 25 C	5010	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_071202	Laboratory Control Sample				Run: PH_COND2-R_071202A			12/02/07 13:13	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071202	Method Blank				Run: PH_COND2-R_071202A			12/02/07 13:13	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R07110302-003ADUP	Sample Duplicate				Run: PH_COND2-R_071202A			12/02/07 13:25	
Conductivity @ 25 C	188	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 071203A-SLDS-TDS-W	
Sample ID: MBLK1_071203A	Method Blank				Run: BAL-4-R_071203A			12/03/07 13:11	
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: LCS1_071203A	Laboratory Control Sample				Run: BAL-4-R_071203A			12/03/07 13:12	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	106	90	110			
Sample ID: R07110299-005AMS	Sample Matrix Spike				Run: BAL-4-R_071203A			12/03/07 13:28	
Solids, Total Dissolved TDS @ 180 C	750	mg/L	5.0	97	80	120			
Sample ID: R07110299-005AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071203A			12/03/07 13:29	
Solids, Total Dissolved TDS @ 180 C	760	mg/L	5.0	101	80	120	1.1	10	
Sample ID: R07110303-002AMS	Sample Matrix Spike				Run: BAL-4-R_071203A			12/03/07 13:42	
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	5.0	88	80	120			
Sample ID: R07110303-002AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071203A			12/03/07 13:43	
Solids, Total Dissolved TDS @ 180 C	3100	mg/L	5.0	102	80	120	0.9	10	
Method: A2540 C								Batch: 080122A-SLDS-TDS-W	
Sample ID: MBLK1_080122A	Method Blank				Run: BAL-4-R_080122B			01/22/08 13:52	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080122A	Laboratory Control Sample				Run: BAL-4-R_080122B			01/22/08 13:54	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	106	90	110			
Sample ID: R08010166-010AMS	Sample Matrix Spike				Run: BAL-4-R_080122B			01/22/08 14:14	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	108	80	120			
Sample ID: R08010166-010AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080122B			01/22/08 14:15	
Solids, Total Dissolved TDS @ 180 C	430	mg/L	5.0	106	80	120	0.9	10	
Method: A2540 D								Batch: 071203A-SLDS-TSS-W	
Sample ID: MBLK1_071203A	Method Blank				Run: BAL-4-R_071203B			12/03/07 12:00	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071203A	Laboratory Control Sample				Run: BAL-4-R_071203B			12/03/07 12:02	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: R07110302-002ADUP	Sample Duplicate				Run: BAL-4-R_071203B			12/03/07 12:18	
Solids, Total Suspended TSS @ 105 C	8.0	mg/L	5.0				46	20	R

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-071230	
Sample ID: MBLK	Method Blank				Run: SUB-C94924			12/30/07 10:22	
Selenium	ND	mg/L	0.0004						
Sample ID: R07120148-005G	Sample Matrix Spike				Run: SUB-C94924			12/30/07 10:45	
Selenium	0.044	mg/L	0.0010	87	85	115			
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate				Run: SUB-C94924			12/30/07 10:47	
Selenium	0.046	mg/L	0.0010	93	85	115	5.6	10	
Sample ID: 288-12-1	Laboratory Control Sample				Run: SUB-C94924			12/30/07 10:49	
Selenium	0.045	mg/L	0.0010	90	90	110			
Sample ID: R07120148-005H	Sample Matrix Spike				Run: SUB-C94924			12/30/07 11:20	
Selenium	0.046	mg/L	0.0010	92	85	115			
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate				Run: SUB-C94924			12/30/07 11:23	
Selenium	0.045	mg/L	0.0010	90	85	115	1.8	10	
Method: A3114 B								Batch: C_SEIV3114-071229	
Sample ID: MBLK	Method Blank				Run: SUB-C94906			12/29/07 09:32	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07120148-005G	Sample Matrix Spike				Run: SUB-C94906			12/29/07 09:54	
Selenium-IV	0.045	mg/L	0.0010	90	85	115			
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate				Run: SUB-C94906			12/29/07 09:56	
Selenium-IV	0.047	mg/L	0.0010	93	85	115	3.2	10	
Sample ID: 288-7-1	Laboratory Control Sample				Run: SUB-C94906			12/29/07 10:03	
Selenium-IV	0.045	mg/L	0.0010	90	90	110			
Sample ID: R07120148-005H	Sample Matrix Spike				Run: SUB-C94906			12/29/07 10:50	
Selenium-IV	0.044	mg/L	0.0010	88	85	115			
- Matrix spike recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate				Run: SUB-C94906			12/29/07 10:52	
Selenium-IV	0.042	mg/L	0.0010	83	85	115	5.1	10	S
- Matrix spike duplicate recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 071128A-CR-HEX-W	
Sample ID: MBLK1_071128A	Method Blank				Run: SPEC1_071128A			11/28/07 15:06	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_071128A	Laboratory Control Sample				Run: SPEC1_071128A			11/28/07 15:06	
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			
Sample ID: R07110302-001D	Sample Matrix Spike				Run: SPEC1_071128A			11/28/07 15:07	
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			
Sample ID: R07110302-002D	Sample Matrix Spike				Run: SPEC1_071128A			11/28/07 15:40	
Chromium, Hexavalent	0.81	mg/L	0.025	81	80	120			
Sample ID: R07110302-003D	Sample Matrix Spike				Run: SPEC1_071128A			11/28/07 15:08	
Chromium, Hexavalent	0.19	mg/L	0.0050	93	80	120			
Sample ID: R07110302-004D	Sample Matrix Spike				Run: SPEC1_071128A			11/28/07 15:08	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Method: A4500-H B								Batch: 071202_1_PH-W	
Sample ID: LCS_pH-1_071202	Laboratory Control Sample				Run: PH_COND2-R_071202A			12/02/07 13:42	
pH	6.86	s.u.	0.010	100	98.55	101.45			
Sample ID: R07110302-003ADUP	Sample Duplicate				Run: PH_COND2-R_071202A			12/02/07 13:46	
pH	6.47	s.u.	0.010				0.9	1.25	
Method: A4500-NH3 G								Batch: A2007-12-04_2_NH3_01	
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_071104A			12/04/07 15:47	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071104A			12/04/07 15:50	
Nitrogen, Ammonia as N	0.28	mg/L	0.10	112	90	110			S
Sample ID: LFB-5	Laboratory Fortified Blank				Run: TECHAA2-R_071104A			12/04/07 15:51	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	90	110			
Sample ID: R07110302-001BDUP	Sample Duplicate				Run: TECHAA2-R_071104A			12/04/07 16:02	
Nitrogen, Ammonia as N	ND	mg/L	0.10				0.0	10	
Sample ID: R07110302-002BMS	Sample Matrix Spike				Run: TECHAA2-R_071104A			12/04/07 16:04	
Nitrogen, Ammonia as N	5.6	mg/L	0.21	89	80	120			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A9222 D								Batch: 071128-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_071128A			11/28/07 10:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R94543
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C94543				12/19/07 11:01
Silica	2.0	mg/L	0.10	99	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	101	85	125			
Manganese	2.1	mg/L	0.010	104	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C94543				12/19/07 11:05
Calcium	25	mg/L	0.50	100	85	125			
Magnesium	24	mg/L	0.50	94	85	125			
Potassium	26	mg/L	0.50	104	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: LRB	Laboratory Reagent Blank				Run: SUB-C94543				12/19/07 11:11
Silica	ND	mg/L	0.10		0	0			
Boron	0.0098	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Iron	ND	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Manganese	ND	mg/L	0.010		0	0			
Potassium	0.032	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Sample ID: C07120180-001EMS	Sample Matrix Spike				Run: SUB-C94543				12/19/07 15:11
Boron	9.14	mg/L	0.10	91	70	130			
Iron	9.31	mg/L	0.046	93	70	130			
Manganese	9.72	mg/L	0.010	96	70	130			
Calcium	543	mg/L	1.0	85	70	130			
Magnesium	486	mg/L	0.50	85	70	130			
Potassium	1130	mg/L	0.50	94	70	130			
Silica	17.7	mg/L	0.20	87	70	130			
Sodium	427	mg/L	7.6	84	70	130			
Sample ID: C07120180-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C94543				12/19/07 15:14
Boron	9.27	mg/L	0.10	93	70	130	1.4	20	
Iron	9.40	mg/L	0.046	93	70	130	1.0	20	
Manganese	9.74	mg/L	0.010	97	70	130	0.2	20	
Calcium	539	mg/L	1.0	85	70	130	0.7	20	
Magnesium	482	mg/L	0.50	84	70	130	0.8	20	
Potassium	1110	mg/L	0.50	92	70	130	2.3	20	
Silica	17.8	mg/L	0.20	88	70	130	0.8	20	
Sodium	420	mg/L	7.6	82	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17091
Sample ID: MB-17091	Method Blank				Run: SUB-C93999				12/10/07 20:59
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	ND	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Mercury	2E-05	mg/L	6E-06						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Silver	0.0009	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-17091	Laboratory Control Sample				Run: SUB-C93999				12/10/07 21:05
Arsenic	0.018	mg/L	0.0010	90	80	120			
Barium	0.018	mg/L	0.10	92	80	120			
Cadmium	0.018	mg/L	0.010	91	80	120			
Chromium	0.019	mg/L	0.050	94	80	120			
Copper	0.018	mg/L	0.010	90	80	120			
Lead	0.018	mg/L	0.050	92	80	120			
Manganese	0.019	mg/L	0.010	93	80	120			
Molybdenum	0.019	mg/L	0.10	93	80	120			
Nickel	0.018	mg/L	0.050	91	80	120			
Silver	0.019	mg/L	0.010	88	80	120			
Thorium 232	0.019	mg/L	0.0010	93	80	120			
Uranium	0.019	mg/L	0.00030	95	80	120			
Vanadium	0.018	mg/L	0.10	92	80	120			
Zinc	0.020	mg/L	0.010	90	80	120			
Sample ID: LCS-17091	Laboratory Control Sample				Run: SUB-C93999				12/10/07 21:12
Arsenic	0.51	mg/L	0.0010	101	80	120			
Barium	0.50	mg/L	0.10	101	80	120			
Cadmium	0.50	mg/L	0.010	100	80	120			
Chromium	0.51	mg/L	0.050	103	80	120			
Copper	0.49	mg/L	0.010	97	80	120			
Lead	0.50	mg/L	0.050	100	80	120			
Manganese	0.51	mg/L	0.010	103	80	120			
Molybdenum	0.51	mg/L	0.10	101	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17091
Sample ID: LCS-17091	Laboratory Control Sample				Run: SUB-C93999				12/10/07 21:12
Nickel	0.49	mg/L	0.050	99	80	120			
Silver	0.24	mg/L	0.010	117	80	120			
Uranium	0.52	mg/L	0.00032	104	80	120			
Vanadium	0.51	mg/L	0.10	102	80	120			
Zinc	0.51	mg/L	0.010	102	80	120			
Sample ID: R07110302-004F	Post Digestion Spike				Run: SUB-C94942				12/29/07 04:40
Aluminum	0.0476	mg/L	0.10	95	70	130			
Arsenic	0.0497	mg/L	0.0010	99	70	130			
Barium	0.0493	mg/L	0.10	99	70	130			
Cadmium	0.0500	mg/L	0.010	100	70	130			
Chromium	0.0507	mg/L	0.050	101	70	130			
Copper	0.0498	mg/L	0.010	100	70	130			
Lead	0.0492	mg/L	0.050	98	70	130			
Manganese	0.0510	mg/L	0.010	101	70	130			
Mercury	0.00518	mg/L	0.0010	104	70	130			
Molybdenum	0.0485	mg/L	0.10	97	70	130			
Nickel	0.0478	mg/L	0.050	96	70	130			
Silver	0.0135	mg/L	0.010	68	70	130			S
Thorium 232	0.0461	mg/L	0.0010	92	70	130			
Uranium	0.0473	mg/L	0.00030	95	70	130			
Vanadium	0.0500	mg/L	0.10	100	70	130			
Zinc	0.0532	mg/L	0.010	106	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110302-004F	Post Digestion Spike Duplicate				Run: SUB-C94942				12/29/07 04:48
Aluminum	0.0463	mg/L	0.10	93	70	130	0.0	20	
Arsenic	0.0500	mg/L	0.0010	100	70	130	0.6	20	
Barium	0.0468	mg/L	0.10	94	70	130	0.0	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	0.7	20	
Chromium	0.0489	mg/L	0.050	98	70	130	0.0	20	
Copper	0.0481	mg/L	0.010	96	70	130	3.3	20	
Lead	0.0487	mg/L	0.050	97	70	130	0.0	20	
Manganese	0.0494	mg/L	0.010	98	70	130	3.3	20	
Mercury	0.00482	mg/L	0.0010	96	70	130	7.1	20	
Molybdenum	0.0485	mg/L	0.10	97	70	130	0.0	20	
Nickel	0.0469	mg/L	0.050	94	70	130	0.0	20	
Silver	0.0140	mg/L	0.010	70	70	130	3.8	20	
Thorium 232	0.0461	mg/L	0.0010	92	70	130	0.0	20	
Uranium	0.0463	mg/L	0.00030	93	70	130	2.2	20	
Vanadium	0.0493	mg/L	0.10	99	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17091
Sample ID: R07110302-004F	Post Digestion Spike Duplicate				Run: SUB-C94942			12/29/07 04:48	
Zinc	0.0520	mg/L	0.010	104	70	130	2.4	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07110302-003F	Post Digestion Spike				Run: SUB-C94975			01/01/08 05:58	
Aluminum	0.105	mg/L	0.10	101	70	130			
Arsenic	0.0487	mg/L	0.0010	96	70	130			
Barium	0.0522	mg/L	0.10	100	70	130			
Cadmium	0.0485	mg/L	0.010	97	70	130			
Chromium	0.0483	mg/L	0.050	97	70	130			
Copper	0.0481	mg/L	0.010	96	70	130			
Lead	0.0496	mg/L	0.050	99	70	130			
Manganese	0.203	mg/L	0.010	87	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Molybdenum	0.0489	mg/L	0.10	98	70	130			
Nickel	0.0476	mg/L	0.050	94	70	130			
Silver	0.0170	mg/L	0.010	85	70	130			
Thorium 232	0.0403	mg/L	0.0010	81	70	130			
Uranium	0.0378	mg/L	0.00030	75	70	130			
Vanadium	0.0483	mg/L	0.10	96	70	130			
Zinc	0.0513	mg/L	0.010	96	70	130			
Sample ID: R07110302-003F	Post Digestion Spike Duplicate				Run: SUB-C94975			01/01/08 06:05	
Aluminum	0.0962	mg/L	0.10	83	70	130	0.0	20	
Arsenic	0.0495	mg/L	0.0010	98	70	130	1.8	20	
Barium	0.0504	mg/L	0.10	97	70	130	0.0	20	
Cadmium	0.0492	mg/L	0.010	98	70	130	1.4	20	
Chromium	0.0486	mg/L	0.050	97	70	130	0.0	20	
Copper	0.0483	mg/L	0.010	96	70	130	0.5	20	
Lead	0.0492	mg/L	0.050	98	70	130	0.0	20	
Manganese	0.205	mg/L	0.010	90	70	130	0.9	20	
Mercury	0.00497	mg/L	0.0010	99	70	130	3.0	20	
Molybdenum	0.0496	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0489	mg/L	0.050	96	70	130	0.0	20	
Silver	0.0187	mg/L	0.010	93	70	130	9.5	20	
Thorium 232	0.0489	mg/L	0.0010	98	70	130	19	20	
Uranium	0.0492	mg/L	0.00030	98	70	130	26	20	R
Vanadium	0.0493	mg/L	0.10	98	70	130	0.0	20	
Zinc	0.0520	mg/L	0.010	97	70	130	1.3	20	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17122
Sample ID: MB-17122	Method Blank				Run: SUB-C94238				12/13/07 16:21
Uranium	5E-05	mg/L							
Sample ID: LCS1-17122	Laboratory Control Sample				Run: SUB-C94238				12/13/07 20:16
Uranium	0.0527	mg/L	0.00030	100	80	120			
Sample ID: R07110302-004K	Post Digestion Spike				Run: SUB-C94238				12/13/07 21:16
Uranium	0.0511	mg/L	0.00030	102	70	130			
Sample ID: R07110302-004K	Post Digestion Spike Duplicate				Run: SUB-C94238				12/13/07 21:23
Uranium	0.0518	mg/L	0.00030	103	70	130	1.3	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93947
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C93947				12/07/07 11:38
Aluminum	0.0492	mg/L	0.0010	98	85	115			
Arsenic	0.0514	mg/L	0.0010	103	85	115			
Barium	0.0501	mg/L	0.0010	100	85	115			
Cadmium	0.0497	mg/L	0.0010	99	85	115			
Chromium	0.0508	mg/L	0.0010	101	85	115			
Copper	0.0519	mg/L	0.0010	104	85	115			
Lead	0.0506	mg/L	0.0010	101	85	115			
Manganese	0.0505	mg/L	0.0010	100	85	115			
Mercury	0.00520	mg/L	0.0010	104	85	115			
Molybdenum	0.0495	mg/L	0.0010	99	85	115			
Nickel	0.0514	mg/L	0.0010	103	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Thorium 232	0.0501	mg/L	0.0010	100	85	115			
Uranium	0.0498	mg/L	0.00030	100	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Zinc	0.0537	mg/L	0.0010	107	85	115			
Sample ID: LRB	Method Blank				Run: SUB-C93947				12/07/07 13:13
Aluminum	ND	mg/L	0.0001						
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	0.0004	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	4E-05	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: R07110303-004C	Post Digestion Spike				Run: SUB-C93947				12/07/07 17:52
Aluminum	0.499	mg/L	0.10	100	70	130			
Arsenic	0.517	mg/L	0.0010	103	70	130			
Barium	0.540	mg/L	0.10	103	70	130			
Cadmium	0.506	mg/L	0.010	101	70	130			
Chromium	0.496	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93947
Sample ID: R07110303-004C	Post Digestion Spike				Run: SUB-C93947				12/07/07 17:52
Copper	0.496	mg/L	0.010	98	70	130			
Lead	0.513	mg/L	0.050	103	70	130			
Manganese	2.98	mg/L	0.010		70	130			A
Mercury	0.0527	mg/L	0.0010	105	70	130			
Molybdenum	0.545	mg/L	0.10	109	70	130			
Nickel	0.502	mg/L	0.050	97	70	130			
Silver	0.171	mg/L	0.010	85	70	130			
Thorium 232	0.532	mg/L	0.0010	106	70	130			
Uranium	0.569	mg/L	0.00030	105	70	130			
Vanadium	0.510	mg/L	0.10	102	70	130			
Zinc	0.498	mg/L	0.010	96	70	130			
Sample ID: R07110303-004C	Post Digestion Spike Duplicate				Run: SUB-C93947				12/07/07 17:59
Aluminum	0.488	mg/L	0.10	98	70	130	2.3	20	
Arsenic	0.509	mg/L	0.0010	102	70	130	1.6	20	
Barium	0.526	mg/L	0.10	100	70	130	2.6	20	
Cadmium	0.496	mg/L	0.010	99	70	130	2.1	20	
Chromium	0.491	mg/L	0.050	97	70	130	0.9	20	
Copper	0.487	mg/L	0.010	96	70	130	1.8	20	
Lead	0.511	mg/L	0.050	102	70	130	0.2	20	
Manganese	2.99	mg/L	0.010		70	130	0.5	20	A
Mercury	0.0537	mg/L	0.0010	107	70	130	1.9	20	
Molybdenum	0.532	mg/L	0.10	106	70	130	2.4	20	
Nickel	0.489	mg/L	0.050	95	70	130	2.7	20	
Silver	0.174	mg/L	0.010	87	70	130	1.9	20	
Thorium 232	0.530	mg/L	0.0010	106	70	130	0.4	20	
Uranium	0.567	mg/L	0.00030	105	70	130	0.4	20	
Vanadium	0.507	mg/L	0.10	101	70	130	0.6	20	
Zinc	0.494	mg/L	0.010	95	70	130	0.8	20	
Sample ID: C07120198-001BMS4	Post Digestion Spike				Run: SUB-C93947				12/08/07 00:47
Aluminum	0.045	mg/L	0.10	90	70	130			
Arsenic	0.067	mg/L	0.0010	97	70	130			
Barium	0.16	mg/L	0.10	90	70	130			
Cadmium	0.048	mg/L	0.010	96	70	130			
Chromium	0.047	mg/L	0.050	91	70	130			
Copper	0.048	mg/L	0.010	94	70	130			
Lead	0.050	mg/L	0.050	99	70	130			
Manganese	0.051	mg/L	0.010	92	70	130			
Mercury	0.0049	mg/L	0.0010	98	70	130			
Molybdenum	0.052	mg/L	0.10	98	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R93947
Sample ID: C07120198-001BMS4	Post Digestion Spike				Run: SUB-C93947				12/08/07 00:47
Nickel	0.048	mg/L	0.050	93	70	130			
Silver	0.018	mg/L	0.010	89	70	130			
Thorium 232	0.051	mg/L	0.0010	101	70	130			
Uranium	0.051	mg/L	0.00030	100	70	130			
Vanadium	0.049	mg/L	0.10	95	70	130			
Zinc	0.065	mg/L	0.010	97	70	130			
Sample ID: C07120198-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C93947				12/08/07 00:54
Aluminum	0.045	mg/L	0.10	91	70	130	0.0	20	
Arsenic	0.068	mg/L	0.0010	98	70	130	1.3	20	
Barium	0.16	mg/L	0.10	90	70	130	0.1	20	
Cadmium	0.048	mg/L	0.010	96	70	130	0.1	20	
Chromium	0.047	mg/L	0.050	92	70	130	0.0	20	
Copper	0.048	mg/L	0.010	94	70	130	0.0	20	
Lead	0.050	mg/L	0.050	99	70	130	0.0	20	
Manganese	0.051	mg/L	0.010	93	70	130	1.6	20	
Mercury	0.0050	mg/L	0.0010	100	70	130	1.6	20	
Molybdenum	0.052	mg/L	0.10	98	70	130	0.0	20	
Nickel	0.049	mg/L	0.050	96	70	130	0.0	20	
Silver	0.019	mg/L	0.010	93	70	130	3.8	20	
Thorium 232	0.051	mg/L	0.0010	102	70	130	1.4	20	
Uranium	0.052	mg/L	0.00030	101	70	130	1.0	20	
Vanadium	0.049	mg/L	0.10	95	70	130	0.0	20	
Zinc	0.064	mg/L	0.010	95	70	130	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R95304
Sample ID: LRB	Method Blank				Run: SUB-C95304				01/07/08 21:02
Arsenic	ND	mg/L	0.0002						
Cadmium	0.0002	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Uranium	0.0001	mg/L	4E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C95304				01/07/08 21:09
Arsenic	0.0515	mg/L	0.0010	103	85	115			
Cadmium	0.0512	mg/L	0.0010	102	85	115			
Copper	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0505	mg/L	0.00030	101	85	115			
Zinc	0.0548	mg/L	0.0021	110	85	115			
Sample ID: R07110302-002F	Post Digestion Spike				Run: SUB-C95304				01/07/08 21:32
Arsenic	0.0514	mg/L	0.0010	96	70	130			
Cadmium	0.0777	mg/L	0.010	102	70	130			
Copper	0.155	mg/L	0.010	110	70	130			
Uranium	6.12	mg/L	0.00030		70	130			A
Zinc	4.51	mg/L	0.010		70	130			A
Sample ID: R07110302-002F	Post Digestion Spike Duplicate				Run: SUB-C95304				01/07/08 21:40
Arsenic	0.0513	mg/L	0.0010	96	70	130	0.2	20	
Cadmium	0.0751	mg/L	0.010	97	70	130	3.4	20	
Copper	0.154	mg/L	0.010	109	70	130	0.1	20	
Uranium	6.01	mg/L	0.00030		70	130	1.7	20	A
Zinc	4.55	mg/L	0.010		70	130	0.9	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32405
Sample ID: LFB0711284127-3	Laboratory Fortified Blank				Run: DIONEX_071128A				11/28/07 21:08
Chloride	4.57	mg/L	0.50	91	90	110			
Fluoride	1.91	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: LFB0711284127-4	Laboratory Fortified Blank				Run: DIONEX_071128A				11/28/07 21:24
Chloride	4.86	mg/L	0.50	97	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: R07110265-001BMS	Sample Matrix Spike				Run: DIONEX_071128A				11/28/07 23:00
Chloride	13.4	mg/L	0.50	71	80	120			S
Fluoride	2.38	mg/L	0.10	91	80	120			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	80	120			
Sulfate	121	mg/L	1.0		80	120			A
Sample ID: R07110265-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071128A				11/28/07 23:15
Chloride	13.3	mg/L	0.50	70	80	120	0.3	10	S
Fluoride	2.26	mg/L	0.10	85	80	120	5.2	10	
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	80	120	0.0	10	
Sulfate	121	mg/L	1.0		80	120	0.5	10	A
Sample ID: R07110302-002AMS	Sample Matrix Spike				Run: DIONEX_071128A				11/29/07 01:07
Chloride	266	mg/L	2.0	98	80	120			
Fluoride	123	mg/L	3.2	109	80	120			
Nitrogen, Nitrate as N	128	mg/L	0.84	102	80	120			
Sulfate	6060	mg/L	36		80	120			A
Sample ID: R07110302-002AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071128A				11/29/07 01:23
Chloride	248	mg/L	2.0	90	80	120	7.0	10	
Fluoride	115	mg/L	3.2	102	80	120	6.2	10	
Nitrogen, Nitrate as N	123	mg/L	0.84	98	80	120	4.0	10	
Sulfate	6160	mg/L	36		80	120	1.6	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32437
Sample ID: LFB0711291936-3	Laboratory Fortified Blank				Run: DIONEX_071129A				11/29/07 20:57
Chloride	4.94	mg/L	0.50	99	90	110			
Sample ID: LFB0711291936-4	Laboratory Fortified Blank				Run: DIONEX_071129A				11/29/07 21:13
Chloride	4.87	mg/L	0.50	97	90	110			
Sample ID: R07110265-001BMS	Sample Matrix Spike				Run: DIONEX_071129A				11/30/07 00:56
Chloride	32.5	mg/L	0.50	89	80	120			
Sample ID: R07110265-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071129A				11/30/07 01:12
Chloride	32.9	mg/L	0.50	90	80	120	1.2	10	
Method: E900.0									Batch: C_GrAB-0369
Sample ID: UNAT-GrAB-0369	Laboratory Control Sample				Run: SUB-C94568				12/17/07 22:28
Gross Alpha	300	pCi/L	1.0	104	70	130			
Sample ID: C07111231-001HMS	Sample Matrix Spike				Run: SUB-C94568				12/17/07 22:28
Gross Beta	280	pCi/L	2.0	85	70	130			
Sample ID: C07111231-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C94568				12/17/07 22:28
Gross Beta	280	pCi/L	2.0	85	70	130	0.2	15.9	
Sample ID: RB-GrAB-0369	Method Blank				Run: SUB-C94568				12/17/07 22:28
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0374	
Sample ID: RB-GrAB-0374	Method Blank				Run: SUB-C94955			12/29/07 11:04	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0374	Laboratory Control Sample				Run: SUB-C94955			12/29/07 11:04	
Gross Alpha	300	pCi/L	1.0	111	70	130			
Sample ID: Cs137-GrAB-0374	Laboratory Control Sample				Run: SUB-C94955			12/29/07 11:04	
Gross Beta	100	pCi/L	2.0	100	70	130			
Sample ID: C07120963-005CMS	Sample Matrix Spike				Run: SUB-C94955			12/29/07 11:04	
Gross Alpha	520	pCi/L	1.0	106	70	130			
Sample ID: C07120963-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C94955			12/29/07 11:04	
Gross Alpha	480	pCi/L	1.0	98	70	130	7.7	12.5	
Sample ID: C07120963-005CMS	Sample Matrix Spike				Run: SUB-C94955			12/29/07 11:04	
Gross Beta	180	pCi/L	2.0	88	70	130			
Sample ID: C07120963-005CMSD	Sample Matrix Spike Duplicate				Run: SUB-C94955			12/29/07 11:04	
Gross Beta	170	pCi/L	2.0	87	70	130	0.9	15.8	
Sample ID: R07110302-002I	Sample Duplicate				Run: SUB-C94955			12/30/07 04:12	
Gross Alpha	6610	pCi/L	1.0				2.6	11.4	
Gross Beta	3100	pCi/L	2.0				3.2	12.7	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R94634
Sample ID: LCS-R94634	Laboratory Control Sample				Run: SUB-C94634				12/05/07 10:50
Cesium 137	1180	pCi/L	20	84	70	130			
Potassium 40	7170	pCi/L	20	107	70	130			
Sample ID: MB-R94634	Method Blank				Run: SUB-C94634				12/05/07 10:50
Bismuth 212	ND	pCi/L	20						
Bismuth 214	ND	pCi/L	20						
Cesium 134	ND	pCi/L	20						
Cesium 137	ND	pCi/L	20						
Cobalt 60	ND	pCi/L	20						
Iodine 125	ND	pCi/L	20						
Iodine 131	ND	pCi/L	20						
Lead 212	ND	pCi/L	20						
Lead 214	ND	pCi/L	20						
Manganese 54	ND	pCi/L	20						
Potassium 40	ND	pCi/L	20						
Radium 223	ND	pCi/L	20						
Radium 224	ND	pCi/L	20						
Thallium 208	ND	pCi/L	20						
Thorium 228	ND	pCi/L	20						
Thorium 234	ND	pCi/L	20						
Zinc 65	ND	pCi/L	20						
Radium 228	ND	pCi/L	20						
Gross Gamma	ND	pCi/L	20						
Method: E903.0									Batch: C_17122
Sample ID: C07111001-001AMS	Sample Matrix Spike				Run: SUB-C94513				12/19/07 11:19
Radium 226	0.00013	uCi/kg	2.0E-07	79	70	130			
Sample ID: C07111001-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94513				12/19/07 11:19
Radium 226	0.00013	uCi/kg	2.0E-07	90	70	130	5.5	23.3	
Sample ID: MB-17122	Method Blank				Run: SUB-C94513				12/19/07 12:26
Radium 226	ND	pCi/L	0.004						
Sample ID: LCS-17122	Laboratory Control Sample				Run: SUB-C94513				12/19/07 12:26
Radium 226	13	pCi/L	0.20	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2485
Sample ID: C07120310-001BMS	Sample Matrix Spike				Run: SUB-C94471				12/18/07 06:56
Radium 226	19	pCi/L	0.20	92	70	130			
Sample ID: C07120320-001DDUP	Sample Duplicate				Run: SUB-C94471				12/18/07 08:57
Radium 226	ND	pCi/L	0.20				0.0	1792.8	
Sample ID: MB-RA226-2485	Method Blank				Run: SUB-C94471				12/18/07 12:58
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2485	Laboratory Control Sample				Run: SUB-C94471				12/18/07 13:59
Radium 226	11	pCi/L	0.20	86	70	130			
Method: E907.0									Batch: C_17122
Sample ID: C07120387-002AMS	Sample Matrix Spike				Run: SUB-C94647				12/12/07 16:10
Thorium 230	51.5	pCi/Filter	0.20	92	70	130			
Sample ID: C07120387-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94647				12/12/07 16:10
Thorium 230	55.3	pCi/Filter	0.20	100	70	130	7.1	30	
Sample ID: LCS-17122	Laboratory Control Sample				Run: SUB-C94647				12/12/07 16:10
Thorium 230	52.8	pCi/Filter	0.20	94	70	130			
Sample ID: MB-17122	Method Blank				Run: SUB-C94647				12/12/07 16:10
Thorium 230	ND	pCi/Filter	0.004						
Method: E907.0									Batch: C_R94649
Sample ID: C07120364-005DMS	Sample Matrix Spike				Run: SUB-C94649				12/17/07 16:15
Thorium 230	19.4	pCi/L	0.20	99	70	130			
Sample ID: C07120364-005DMSD	Sample Matrix Spike Duplicate				Run: SUB-C94649				12/17/07 16:15
Thorium 230	18.7	pCi/L	0.20	95	70	130	3.7	30	
Sample ID: MB-R94649	Method Blank				Run: SUB-C94649				12/17/07 16:15
Thorium 230	ND	pCi/L	0.2						
Sample ID: LCS-R94649	Laboratory Control Sample				Run: SUB-C94649				12/17/07 16:15
Thorium 230	5.90	pCi/L	0.20	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R95122
Sample ID: LCS-R95122	Laboratory Control Sample				Run: SUB-C95122				12/27/07 15:15
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank				Run: SUB-C95122				12/27/07 15:15
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M									Batch: C_17122
Sample ID: R07110302-001K	Sample Matrix Spike				Run: SUB-C94571				12/13/07 08:00
Lead 210	790	pCi/L	1.0	99	70	130			
Sample ID: R07110302-001K	Sample Matrix Spike Duplicate				Run: SUB-C94571				12/13/07 08:00
Lead 210	780	pCi/L	1.0	98	70	130	1.5	30	
Sample ID: MB-R94571	Method Blank				Run: SUB-C94571				12/13/07 08:00
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94571	Laboratory Control Sample				Run: SUB-C94571				12/13/07 08:00
Lead 210	86	pCi/L	1.0	107	70	130			
Method: E909.0M									Batch: C_R94265
Sample ID: C07111231-004HMS	Sample Matrix Spike				Run: SUB-C94265				12/10/07 07:15
Lead 210	470	pCi/L	1.0	116	70	130			
Sample ID: C07111231-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C94265				12/10/07 07:15
Lead 210	420	pCi/L	1.0	104	70	130	11	30	
Sample ID: MB-R94265	Method Blank				Run: SUB-C94265				12/10/07 07:15
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94265	Laboratory Control Sample				Run: SUB-C94265				12/10/07 07:15
Lead 210	88	pCi/L	1.0	110	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 01/30/08
Work Order: R07110302

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_17122
Sample ID: R07110302-004K	Sample Matrix Spike				Run: SUB-C94630				12/18/07 12:00
Polonium 210	400	pCi/L	1.0	90	70	130			
Sample ID: R07110302-004K	Sample Matrix Spike Duplicate				Run: SUB-C94630				12/18/07 12:00
Polonium 210	330	pCi/L	1.0	73	70	130	20	30	
Sample ID: LCS-17122	Laboratory Control Sample				Run: SUB-C94630				12/18/07 12:00
Polonium 210	18	pCi/L	1.0	80	70	130			
Sample ID: MB-17122	Method Blank				Run: SUB-C94630				12/18/07 12:00
Polonium 210	ND	pCi/L	1						
Method: RMO-3008									Batch: C_R94217
Sample ID: C07111231-008HMS	Sample Matrix Spike				Run: SUB-C94217				12/10/07 12:00
Polonium 210	170	pCi/L	1.0	74	70	130			
Sample ID: C07111231-008HMSD	Sample Matrix Spike Duplicate				Run: SUB-C94217				12/10/07 12:00
Polonium 210	170	pCi/L	1.0	76	70	130	2.4	30	
Sample ID: LCS-R94217	Laboratory Control Sample				Run: SUB-C94217				12/10/07 12:00
Polonium 210	21	pCi/L	1.0	92	70	130			
Sample ID: MB-R94217	Method Blank				Run: SUB-C94217				12/10/07 12:00
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Berpec	Dewey-Burdock	State:	Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax:	Email:	Sampler: (Please Print)
	Cory Foreman		Cory Foreman Eric Kientz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

ANALYSIS REQUESTED

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: SW

Shipped by:

Cooler ID(s):

Receipt Temp 3.6 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	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)	As per Quote												LABORATORY USE ONLY
1	DewBurd Sub 08	11/27/07	8:35	W	X										Sample Bottle Set 2		D7110302-001
2	DewBurd Sub 06	11/27/07	9:36	W	X										Sample Bottle Set 14		002
3	DewBurd Sub 11	11/27/07	10:08	W	X										Sample Bottle Set 1		003
4	DewBurd BK01	11/27/07	2145	W	X										Bottle Set 7		004
5																	
6																	
7																	
8																	
9																	
10																	

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Kientz	11/28/07 08:10	[signature]	Steve Froiland	11-28-07 8:10	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

February 04, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R07120148 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 12/12/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R07120148-001	DewBurdBVC04	12/11/07 10:00	12/12/07	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R07120148-002	DewBurdBVC01	12/11/07 12:20	12/12/07	Aqueous	Same As Above
R07120148-003	DewBurdBVC01	12/11/07 12:25	12/12/07	Aqueous	Same As Above
R07120148-004	DewBurdCHR05	12/11/07 13:50	12/12/07	Aqueous	Same As Above
R07120148-005	DewBurdBLK01	12/12/07 8:30	12/12/07	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • *2821 Plant Street • Rapid City, SD 57702 • www.energylab.com*
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-001
Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
Collection Date: 12/11/07 10:00
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	10	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	190	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Bicarbonate as HCO3	232	mg/L		5		1	A2320 B	12/18/07 18:45/sn
Calcium	449	mg/L	D	1		10	E200.7	12/27/07 13:20/eli-c
Chloride	601	mg/L	D	2		50	E300.0	12/14/07 02:33/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/13/07 19:06/jmh
Magnesium	101	mg/L		0.5		10	E200.7	12/27/07 13:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:23/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:06/jmh
Potassium	5	mg/L		1		2	E200.7	12/27/07 15:37/eli-c
Silica	11.9	mg/L		0.5		10	E200.7	12/27/07 13:20/eli-c
Sodium	415	mg/L	D	8		10	E200.7	12/27/07 13:20/eli-c
Sulfate	1450	mg/L	D	40		50	E300.0	12/14/07 02:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4370	umhos/cm		5.0		1	A2510 B	12/15/07 18:37/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	12/15/07 19:04/jmh
Sodium Adsorption Ratio (SAR)	4.6	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:05/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	12/12/07 17:14/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:20/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:06/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-001
Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
Collection Date: 12/11/07 10:00
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:20/eli-c
Uranium	0.0114	mg/L		0.0003		1	E200.8	12/18/07 05:20/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 10:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/23/07 10:56/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/20/07 00:55/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:53/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 00:55/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 00:55/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:56/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
Iron	0.19	mg/L		0.03		2	E200.7	12/27/07 15:53/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 00:55/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:11/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 00:55/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 00:55/eli-c
Uranium	0.0135	mg/L		0.0003		1	E200.8	12/20/07 00:55/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 00:55/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 00:55/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:34/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:42/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-001
Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
Collection Date: 12/11/07 10:00
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:10/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:30/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	26	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	2.6	pCi/L				1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 20:45/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	8.6	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	1.3	pCi/L				1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	0.3	pCi/L		0.2		1	E903.0	12/31/07 11:00/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	17.1	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.4	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	11.7	pCi/L		2.0		1	E900.0	01/26/08 01:17/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	01/26/08 01:17/eli-c
Gross Gamma	1100	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	182	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	35	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	2.9	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.9	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	0.3	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec

DATA QUALITY

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-001
Client Sample ID: DewBurdBVC04

Report Date: 02/04/08
Collection Date: 12/11/07 10:00
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
A/C Balance (± 5)	ND	%				1	A1030 E	01/23/08 16:26/sec
Anions	51.0	meq/L				1	A1030 E	01/23/08 16:26/sec
Cations	48.8	meq/L				1	A1030 E	01/23/08 16:26/sec
Solids, Total Dissolved Calculated	3140	mg/L				1	A1030 E	01/23/08 16:26/sec
TDS Balance (0.80 - 1.20)	1.11	dec. %				1	A1030 E	01/23/08 16:26/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-002
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:20
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	6	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	188	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Bicarbonate as HCO3	229	mg/L		5		1	A2320 B	12/18/07 18:54/sn
Calcium	452	mg/L	D	1		10	E200.7	12/27/07 13:50/eli-c
Chloride	581	mg/L	D	2		50	E300.0	12/14/07 02:48/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	12/13/07 19:21/jmh
Magnesium	110	mg/L		0.5		10	E200.7	12/27/07 13:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:24/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:21/jmh
Potassium	5	mg/L		1		2	E200.7	12/27/07 15:40/eli-c
Silica	11.0	mg/L		0.5		10	E200.7	12/27/07 13:50/eli-c
Sodium	426	mg/L	D	8		10	E200.7	12/27/07 13:50/eli-c
Sulfate	1430	mg/L	D	40		50	E300.0	12/14/07 02:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4370	umhos/cm		5.0		1	A2510 B	12/15/07 18:38/jmh
pH	7.88	s.u.		0.01		1	A4500-H B	12/15/07 19:05/jmh
Sodium Adsorption Ratio (SAR)	4.7	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:06/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	12/12/07 17:16/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	12/18/07 05:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:28/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:40/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-002
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:20
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:28/eli-c
Uranium	0.0124	mg/L		0.0003		1	E200.8	12/18/07 05:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 11:04/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/23/07 11:04/eli-c
METALS - TOTAL								
Aluminum	0.2	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/20/07 01:23/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 01:23/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 01:23/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:57/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
Iron	0.25	mg/L		0.03		2	E200.7	12/27/07 15:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 01:23/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 01:23/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 01:23/eli-c
Uranium	0.0142	mg/L		0.0003		1	E200.8	12/20/07 01:23/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 01:23/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 01:23/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:36/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:45/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-002
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:20
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:12/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:32/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	11	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	1.7	pCi/L				1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.0	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 21:45/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.0	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	0.86	pCi/L				1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	0.4	pCi/L		0.2		1	E903.0	12/31/07 11:00/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	27.9	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	14.9	pCi/L		2.0		1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	1310	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	188	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	14	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.9	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	0.4	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-002
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:20
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
A/C Balance (± 5)	0.412	%				1	A1030 E	01/23/08 16:26/sec
Anions	49.8	meq/L				1	A1030 E	01/23/08 16:26/sec
Cations	50.3	meq/L				1	A1030 E	01/23/08 16:26/sec
Solids, Total Dissolved Calculated	3110	mg/L				1	A1030 E	01/23/08 16:26/sec
TDS Balance (0.80 - 1.20)	1.14	dec. %				1	A1030 E	01/23/08 16:26/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-003
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:25
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	14	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	184	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Bicarbonate as HCO3	224	mg/L		5		1	A2320 B	12/18/07 18:55/sn
Calcium	451	mg/L	D	1		10	E200.7	12/27/07 13:53/eli-c
Chloride	610	mg/L	D	2		50	E300.0	12/14/07 03:04/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/13/07 19:36/jmh
Magnesium	109	mg/L		0.5		10	E200.7	12/27/07 13:53/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:25/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:36/jmh
Potassium	6	mg/L		1		2	E200.7	12/27/07 15:44/eli-c
Silica	11.0	mg/L		0.5		10	E200.7	12/27/07 13:53/eli-c
Sodium	412	mg/L	D	8		10	E200.7	12/27/07 13:53/eli-c
Sulfate	1510	mg/L	D	40		50	E300.0	12/14/07 03:04/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4380	umhos/cm		5.0		1	A2510 B	12/15/07 18:39/jmh
pH	7.89	s.u.		0.01		1	A4500-H B	12/15/07 19:06/jmh
Sodium Adsorption Ratio (SAR)	4.5	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	12/17/07 17:37/jmh
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	12/13/07 15:08/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	12/18/07 05:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:44/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:35/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:46/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-003
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:25
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.01	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:35/eli-c
Uranium	0.0129	mg/L		0.0003		1	E200.8	12/18/07 05:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 11:11/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	12/23/07 11:11/eli-c
METALS - TOTAL								
Aluminum	0.2	mg/L		0.1		1	E200.8	12/20/07 01:29/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/20/07 01:29/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 01:29/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 16:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 01:29/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 01:29/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:59/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 01:29/eli-c
Iron	0.28	mg/L		0.03		2	E200.7	12/27/07 16:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 01:29/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	12/20/07 01:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:27/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 01:29/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 01:29/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 01:29/eli-c
Uranium	0.0151	mg/L		0.0003		1	E200.8	12/20/07 01:29/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 01:29/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 01:29/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:38/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:47/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-003
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:25
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:14/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:34/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 22:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	1.2	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/31/07 11:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	25.8	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	5.7	pCi/L		2.0		1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.0	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	1120	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
Gross Gamma precision (±)	174	pCi/L				1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	4.4	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.6	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.6	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec
DATA QUALITY								
A/C Balance (± 5)	ND	%				1	A1030 E	01/23/08 16:27/sec
Anions	52.3	meq/L				1	A1030 E	01/23/08 16:27/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-003
Client Sample ID: DewBurdBVC01

Report Date: 02/04/08
Collection Date: 12/11/07 12:25
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Cations	49.6	meq/L				1	A1030 E	01/23/08 16:27/sec
Solids, Total Dissolved Calculated	3210	mg/L				1	A1030 E	01/23/08 16:27/sec
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	01/23/08 16:27/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-004
Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
Collection Date: 12/11/07 13:50
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	6	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	182	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Bicarbonate as HCO3	222	mg/L		5		1	A2320 B	12/18/07 18:57/sn
Calcium	441	mg/L	D	1		10	E200.7	12/27/07 13:56/eli-c
Chloride	509	mg/L	D	2		50	E300.0	12/14/07 03:19/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	12/13/07 19:52/jmh
Magnesium	109	mg/L		0.5		10	E200.7	12/27/07 13:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:26/sn
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	12/13/07 19:52/jmh
Potassium	6	mg/L		1		2	E200.7	12/27/07 15:47/eli-c
Silica	10.4	mg/L		0.5		10	E200.7	12/27/07 13:56/eli-c
Sodium	360	mg/L	D	8		10	E200.7	12/27/07 13:56/eli-c
Sulfate	1570	mg/L	D	40		50	E300.0	12/14/07 03:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4080	umhos/cm		5.0		1	A2510 B	12/15/07 18:40/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	12/15/07 19:07/jmh
Sodium Adsorption Ratio (SAR)	4.0	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	8	mg/L		5		1	D3977	12/17/07 17:38/jmh
Solids, Total Dissolved TDS @ 180 C	3300	mg/L		5		1	A2540 C	12/13/07 15:09/jmh
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 15:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:43/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:43/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 15:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-004
Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
Collection Date: 12/11/07 13:50
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.01	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:43/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:43/eli-c
Uranium	0.0125	mg/L		0.0003		1	E200.8	12/18/07 05:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:43/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 11:19/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	12/23/07 11:19/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/20/07 01:36/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/20/07 01:36/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 01:36/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	12/27/07 16:03/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 01:36/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 01:36/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 17:59/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 01:36/eli-c
Iron	0.13	mg/L		0.03		2	E200.7	12/27/07 16:03/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 01:36/eli-c
Manganese	0.10	mg/L		0.01		1	E200.8	12/20/07 01:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:34/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 01:36/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 01:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 01:36/eli-c
Uranium	0.0152	mg/L		0.0003		1	E200.8	12/20/07 01:36/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 01:36/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 01:36/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	12/30/07 10:40/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:49/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-004
Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
Collection Date: 12/11/07 13:50
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:16/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:36/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	5.9	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Lead 210 precision (±)	1.3	pCi/L				1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	2.4	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/27/07 23:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/31/07 12:18/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	24.9	pCi/L		1.0		1	E900.0	01/02/08 20:21/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Beta	12.5	pCi/L		2.0		1	E900.0	01/02/08 20:21/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	01/02/08 20:21/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
- Analysis of an alternate sample aliquot shows ND for K40 as well as Gross Gamma.								
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	5.9	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Lead 210 precision (±)	1.3	pCi/L				1	E909.0M	01/05/08 14:23/sec
Polonium 210	3.4	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.4	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec
- Analysis of an alternate sample aliquot shows ND for K40 as well as Gross Gamma.								
DATA QUALITY								
A/C Balance (± 5)	ND	%				1	A1030 E	01/23/08 16:27/sec
Anions	50.6	meq/L				1	A1030 E	01/23/08 16:27/sec
Cations	46.8	meq/L				1	A1030 E	01/23/08 16:27/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-004
Client Sample ID: DewBurdCHR05

Report Date: 02/04/08
Collection Date: 12/11/07 13:50
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	3100	mg/L				1	A1030 E	01/23/08 16:27/sec
TDS Balance (0.80 - 1.20)	1.07	dec. %				1	A1030 E	01/23/08 16:27/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-005
Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
Collection Date: 12/12/07 08:30
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	12/12/07 09:45/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	12/18/07 18:58/sn
Calcium	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Chloride	ND	mg/L		1		1	E300.0	12/13/07 20:07/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	12/13/07 20:07/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	12/19/07 14:27/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	12/13/07 20:07/jmh
Potassium	ND	mg/L		1		2	E200.7	12/27/07 15:50/eli-c
Silica	ND	mg/L		0.5		2	E200.7	12/27/07 15:50/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	12/27/07 15:50/eli-c
Sulfate	1	mg/L		1		1	E300.0	12/13/07 20:07/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	ND	umhos/cm		5.0		1	A2510 B	12/15/07 18:41/jmh
pH	5.56	s.u.		0.01		1	A4500-H B	12/15/07 19:10/jmh
Sodium Adsorption Ratio (SAR)	0.16	meq/L		0.10		1	Calculation	01/23/08 16:29/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	12/17/07 17:38/jmh
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	12/13/07 15:11/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	12/12/07 17:17/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/18/07 05:50/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/27/07 15:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/18/07 05:50/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Copper	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 15:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/18/07 05:50/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/26/07 16:13/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-005
Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
Collection Date: 12/12/07 08:30
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/18/07 05:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/18/07 05:50/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/18/07 05:50/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/18/07 05:50/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/18/07 05:50/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	12/23/07 11:26/eli-c
Uranium	0.0012	mg/L		0.0003		1	E200.8	12/23/07 11:26/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	12/20/07 01:43/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	12/20/07 01:43/eli-c
Barium	ND	mg/L		0.1		1	E200.8	12/20/07 01:43/eli-c
Boron	ND	mg/L		0.1		2	E200.7	12/27/07 16:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	12/20/07 01:43/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	12/20/07 01:43/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	12/12/07 18:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	01/23/08 16:35/sec
Copper	ND	mg/L		0.01		1	E200.8	12/20/07 01:43/eli-c
Iron	ND	mg/L		0.03		2	E200.7	12/27/07 16:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	12/20/07 01:43/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	12/20/07 01:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	12/21/07 19:42/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	12/20/07 01:43/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	12/20/07 01:43/eli-c
Silver	ND	mg/L		0.005		1	E200.8	12/21/07 19:42/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	12/20/07 01:43/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	12/20/07 01:43/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	12/20/07 01:43/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	12/20/07 01:43/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 10:43/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R07120148-005
Client Sample ID: DewBurdBLK01

Report Date: 02/04/08
Collection Date: 12/12/07 08:30
Date Received: 12/12/07
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	12/30/07 11:18/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	12/29/07 10:38/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	12/30/07 11:58/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/21/07 06:15/eli-c
Polonium 210	1.6	pCi/L		1.0		1	RMO-3008	12/20/07 12:30/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	12/20/07 12:30/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/28/07 00:46/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	12/27/07 15:15/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	12/26/07 10:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/02/08 16:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	12/31/07 12:18/eli-c
Thorium 230	2.6	pCi/L		0.2		1	E907.0	12/27/07 14:30/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	12/27/07 14:30/eli-c
- Thorium 230 results confirmed by analysis of a second sample aliquot.								
RADIONUCLIDES - TOTAL								
Gross Alpha	ND	pCi/L		1.0		1	E900.0	01/02/08 20:22/eli-c
Gross Beta	ND	pCi/L		2.0		1	E900.0	01/02/08 20:22/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	12/05/07 10:50/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/05/08 14:23/sec
Polonium 210	2.2	pCi/L		1.0		1	RMO-3008	01/07/08 15:00/sec
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	01/07/08 15:00/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	01/05/08 14:23/sec
Thorium 230	2.6	pCi/L		0.2		1	E907.0	01/11/08 16:40/sec
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	01/11/08 16:40/sec
DATA QUALITY								
Anions	0.0264	meq/L				1	A1030 E	01/23/08 16:27/sec
Cations	0.00334	meq/L				1	A1030 E	01/23/08 16:27/sec
- The Ion and TDS balances are not appropriate for near blank results.								

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 071218A-ALK-SEL-W	
Sample ID: MBLK1_071218A	Method Blank				Run: PH_COND1-R_071218A			12/18/07 18:05	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_071218A	Laboratory Control Sample				Run: PH_COND1-R_071218A			12/18/07 18:06	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	100	90	110			
Sample ID: R07120148-001ADUP	Sample Duplicate				Run: PH_COND1-R_071218A			12/19/07 18:45	
Alkalinity, Total as CaCO3	190	mg/L	5.0				0.0	10	
Carbonate as CO3	ND	mg/L	5.0				0.0	10	
Bicarbonate as HCO3	232	mg/L	5.0				0.0	10	
Method: A2510 B								Batch: 071215_1_COND-PROBE-W	
Sample ID: LCS1-1_071215	Laboratory Control Sample				Run: PH_COND2-R_071215A			12/15/07 18:21	
Conductivity @ 25 C	155	umhos/cm	5.0	103	90	110			
Sample ID: LCS2-1_071215	Laboratory Control Sample				Run: PH_COND2-R_071215A			12/15/07 18:22	
Conductivity @ 25 C	5180	umhos/cm	5.0	104	90	110			
Sample ID: LCS_COND-1_071215	Laboratory Control Sample				Run: PH_COND2-R_071215A			12/15/07 18:23	
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_071215	Method Blank				Run: PH_COND2-R_071215A			12/15/07 18:23	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 071213A-SLDS-TDS-W	
Sample ID: LCS1_071213A	Laboratory Control Sample				Run: BAL-4-R_071213A			12/13/07 14:30	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: MBLK1_071213A	Method Blank				Run: BAL-4-R_071213A			12/13/07 14:31	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R07120143-003CMS	Sample Matrix Spike				Run: BAL-4-R_071213A			12/13/07 14:50	
Solids, Total Dissolved TDS @ 180 C	250	mg/L	5.0	105	80	120			
Sample ID: R07120143-003CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_071213A			12/13/07 14:52	
Solids, Total Dissolved TDS @ 180 C	250	mg/L	5.0	103	80	120	1.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 071212A-SLDS-TSS-W	
Sample ID: MBLK1_071212A	Method Blank				Run: BAL-4-R_071212A			12/12/07 17:02	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_071212A	Laboratory Control Sample				Run: BAL-4-R_071212A			12/12/07 17:02	
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	92	85	115			
Sample ID: R07120148-001ADUP	Sample Duplicate				Run: BAL-4-R_071212A			12/12/07 17:14	
Solids, Total Suspended TSS @ 105 C	9.0	mg/L	5.0				11	20	
Method: A3114 B								Batch: C_SE3114-071230	
Sample ID: MBLK	Method Blank				Run: SUB-C94924			12/30/07 10:22	
Selenium	ND	mg/L	0.0004						
Sample ID: R07120148-005G	Sample Matrix Spike				Run: SUB-C94924			12/30/07 10:45	
Selenium	0.044	mg/L	0.0010	87	85	115			
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate				Run: SUB-C94924			12/30/07 10:47	
Selenium	0.046	mg/L	0.0010	93	85	115	5.6	10	
Sample ID: 288-12-1	Laboratory Control Sample				Run: SUB-C94924			12/30/07 10:49	
Selenium	0.045	mg/L	0.0010	90	90	110			
Sample ID: R07120148-005H	Sample Matrix Spike				Run: SUB-C94924			12/30/07 11:20	
Selenium	0.046	mg/L	0.0010	92	85	115			
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate				Run: SUB-C94924			12/30/07 11:23	
Selenium	0.045	mg/L	0.0010	90	85	115	1.8	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV3114-071229	
Sample ID: MBLK	Method Blank				Run: SUB-C94906			12/29/07 09:32	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: R07120148-005G	Sample Matrix Spike				Run: SUB-C94906			12/29/07 09:54	
Selenium-IV	0.045	mg/L	0.0010	90	85	115			
Sample ID: R07120148-005G	Sample Matrix Spike Duplicate				Run: SUB-C94906			12/29/07 09:56	
Selenium-IV	0.047	mg/L	0.0010	93	85	115	3.2	10	
Sample ID: 288-7-1	Laboratory Control Sample				Run: SUB-C94906			12/29/07 10:03	
Selenium-IV	0.045	mg/L	0.0010	90	90	110			
Sample ID: R07120148-005H	Sample Matrix Spike				Run: SUB-C94906			12/29/07 10:50	
Selenium-IV	0.044	mg/L	0.0010	88	85	115			
- Matrix spike recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									
Sample ID: R07120148-005H	Sample Matrix Spike Duplicate				Run: SUB-C94906			12/29/07 10:52	
Selenium-IV	0.042	mg/L	0.0010	83	85	115	5.1	10	S
- Matrix spike duplicate recoveries outside the acceptance criteria of 85 to 115 percent are considered matrix related, not system related. Reported values are within method specifications.									
Method: A3500-Cr B								Batch: 071212A-CR-HEX-W	
Sample ID: MBLK1_071212A	Method Blank				Run: SPEC1_071213A			12/12/07 17:55	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_071212A	Laboratory Control Sample				Run: SPEC1_071213A			12/12/07 17:56	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Sample ID: R07120148-001DMS	Sample Matrix Spike				Run: SPEC1_071213A			12/12/07 17:57	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R07120148-002DMS	Sample Matrix Spike				Run: SPEC1_071213A			12/12/07 17:59	
Chromium, Hexavalent	0.21	mg/L	0.0050	107	80	120			
Sample ID: R07120148-003DMS	Sample Matrix Spike				Run: SPEC1_071213A			12/12/07 17:59	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R07120148-004DMS	Sample Matrix Spike				Run: SPEC1_071213A			12/12/07 17:59	
Chromium, Hexavalent	0.19	mg/L	0.0050	97	80	120			
Sample ID: R07120148-005DMS	Sample Matrix Spike				Run: SPEC1_071213A			12/12/07 18:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 071215_1_PH-W	
Sample ID: LCS_pH-1_071215	Laboratory Control Sample				Run: PH_COND2-R_071215A			12/15/07 18:58	
pH	6.88	s.u.	0.010	100	98.55	101.45			
Method: A4500-NH3 G								Batch: A2007-12-19_2_NH3_01	
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_071219A			12/19/07 12:36	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_071219A			12/19/07 12:40	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	90	110			
Sample ID: LFB-5	Laboratory Fortified Blank				Run: TECHAA2-R_071219A			12/19/07 12:41	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			
Sample ID: R07120125-002BMS	Sample Matrix Spike				Run: TECHAA2-R_071219A			12/19/07 14:15	
Nitrogen, Ammonia as N	0.28	mg/L	0.10	112	80	120			
Sample ID: R07120149-002CMS	Sample Matrix Spike				Run: TECHAA2-R_071219A			12/19/07 14:34	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	113	80	120			
Method: A9222 D								Batch: 071212-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_071212A			12/12/07 09:45	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_17242
Sample ID: MB-17242	Method Blank				Run: SUB-C94881				12/27/07 11:12
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	0.05	mg/L	0.04						
Silica	0.03	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17242	Laboratory Control Sample				Run: SUB-C94881				12/27/07 11:15
Boron	0.49	mg/L	0.10	99	85	115			
Iron	0.52	mg/L	0.030	105	85	115			
Calcium	47	mg/L	0.50	94	85	115			
Magnesium	47	mg/L	0.50	94	85	115			
Potassium	48	mg/L	0.50	95	85	115			
Sodium	48	mg/L	0.53	97	85	115			
Sample ID: R07120148-001F	Sample Matrix Spike				Run: SUB-C94881				12/27/07 14:06
Boron	8.85	mg/L	0.13	86	70	130			
Iron	9.16	mg/L	0.087	90	70	130			
Calcium	848	mg/L	0.79	76	70	130			
Magnesium	532	mg/L	0.80	85	70	130			
Potassium	1010	mg/L	0.50	84	70	130			
Silica	20.6	mg/L	0.11	79	70	130			
Sodium	772	mg/L	5.3	70	70	130			
- Matrix spike recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									
Sample ID: R07120148-001F	Sample Matrix Spike Duplicate				Run: SUB-C94881				12/27/07 14:09
Boron	9.37	mg/L	0.13	92	70	130	5.7	20	
Iron	9.54	mg/L	0.087	94	70	130	4.1	20	
Calcium	860	mg/L	0.79	79	70	130	1.4	20	
Magnesium	543	mg/L	0.80	87	70	130	2.0	20	
Potassium	1030	mg/L	0.50	85	70	130	1.1	20	
Silica	21.2	mg/L	0.11	85	70	130	2.8	20	
Sodium	793	mg/L	5.3	74	70	130	2.7	20	
- Matrix spike duplicate recoveries outside the acceptance criteria of 70 to 130 percent are considered matrix related, not system related. Reported values are within method specifications. (EPA Method 200.8, par. 9.4.4)									

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R94881
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C94881				12/27/07 10:30
Silica	2.0	mg/L	0.10	100	85	125			
Boron	1.9	mg/L	0.10	97	85	125			
Iron	2.0	mg/L	0.030	100	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C94881				12/27/07 10:33
Calcium	24	mg/L	0.50	97	85	125			
Magnesium	24	mg/L	0.50	98	85	125			
Potassium	26	mg/L	0.50	105	85	125			
Sodium	24	mg/L	0.76	97	85	125			
Sample ID: R07120148-001E	Sample Matrix Spike				Run: SUB-C94881				12/27/07 13:23
Boron	9.26	mg/L	0.10	91	70	130			
Iron	9.28	mg/L	0.046	93	70	130			
Calcium	857	mg/L	1.0	82	70	130			
Magnesium	525	mg/L	0.50	85	70	130			
Potassium	1060	mg/L	0.50	88	70	130			
Silica	20.9	mg/L	0.20	89	70	130			
Sodium	826	mg/L	7.6	82	70	130			
Sample ID: R07120148-001E	Sample Matrix Spike Duplicate				Run: SUB-C94881				12/27/07 13:27
Boron	9.77	mg/L	0.10	96	70	130	5.4	20	
Iron	9.60	mg/L	0.046	96	70	130	3.4	20	
Calcium	880	mg/L	1.0	86	70	130	2.6	20	
Magnesium	536	mg/L	0.50	87	70	130	2.1	20	
Potassium	1060	mg/L	0.50	88	70	130	0.8	20	
Silica	21.2	mg/L	0.20	93	70	130	1.7	20	
Sodium	824	mg/L	7.6	82	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17242
Sample ID: MB-17242	Method Blank				Run: SUB-C94576				12/20/07 00:08
Aluminum	0.0003	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	9E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0002						
Lead	ND	mg/L	5E-05						
Manganese	0.0001	mg/L	3E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	6E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LCS1-17242	Laboratory Control Sample				Run: SUB-C94576				12/20/07 00:15
Aluminum	0.020	mg/L	0.10	100	80	120			
Arsenic	0.019	mg/L	0.0010	97	80	120			
Barium	0.020	mg/L	0.10	101	80	120			
Cadmium	0.020	mg/L	0.010	99	80	120			
Chromium	0.020	mg/L	0.050	102	80	120			
Copper	0.019	mg/L	0.010	97	80	120			
Lead	0.020	mg/L	0.050	100	80	120			
Manganese	0.021	mg/L	0.010	103	80	120			
Molybdenum	0.020	mg/L	0.10	99	80	120			
Nickel	0.020	mg/L	0.050	98	80	120			
Thorium 232	0.020	mg/L	0.0010	99	80	120			
Uranium	0.020	mg/L	0.00030	99	80	120			
Vanadium	0.020	mg/L	0.10	101	80	120			
Zinc	0.021	mg/L	0.010	105	80	120			
Sample ID: LCS-17242	Laboratory Control Sample				Run: SUB-C94576				12/20/07 00:22
Aluminum	0.52	mg/L	0.10	104	85	115			
Arsenic	0.53	mg/L	0.0010	106	85	115			
Barium	0.53	mg/L	0.10	106	85	115			
Cadmium	0.52	mg/L	0.010	103	85	115			
Chromium	0.54	mg/L	0.050	108	85	115			
Copper	0.50	mg/L	0.010	100	85	115			
Lead	0.53	mg/L	0.050	106	85	115			
Manganese	0.54	mg/L	0.010	107	85	115			
Molybdenum	0.51	mg/L	0.10	103	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17242
Sample ID: LCS-17242	Laboratory Control Sample				Run: SUB-C94576				12/20/07 00:22
Nickel	0.50	mg/L	0.050	101	85	115			
Uranium	0.53	mg/L	0.00032	106	85	115			
Vanadium	0.53	mg/L	0.10	106	85	115			
Zinc	0.52	mg/L	0.010	103	85	115			
Sample ID: R07120148-005F	Post Digestion Spike				Run: SUB-C94576				12/20/07 01:50
Aluminum	0.0796	mg/L	0.10	112	70	130			
Arsenic	0.0740	mg/L	0.0010	106	70	130			
Barium	0.0735	mg/L	0.10	105	70	130			
Cadmium	0.0716	mg/L	0.010	102	70	130			
Chromium	0.0769	mg/L	0.050	110	70	130			
Copper	0.0709	mg/L	0.010	101	70	130			
Lead	0.0722	mg/L	0.050	103	70	130			
Manganese	0.0780	mg/L	0.010	111	70	130			
Molybdenum	0.0718	mg/L	0.10	103	70	130			
Nickel	0.0718	mg/L	0.050	103	70	130			
Thorium 232	0.0737	mg/L	0.0010	105	70	130			
Uranium	0.0734	mg/L	0.00030	105	70	130			
Vanadium	0.0750	mg/L	0.10	107	70	130			
Zinc	0.0721	mg/L	0.010	101	70	130			
Sample ID: R07120148-005F	Post Digestion Spike Duplicate				Run: SUB-C94576				12/20/07 01:57
Aluminum	0.0785	mg/L	0.10	111	70	130	0.0	20	
Arsenic	0.0714	mg/L	0.0010	102	70	130	3.6	20	
Barium	0.0711	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0688	mg/L	0.010	98	70	130	4.0	20	
Chromium	0.0747	mg/L	0.050	106	70	130	2.9	20	
Copper	0.0678	mg/L	0.010	97	70	130	4.6	20	
Lead	0.0699	mg/L	0.050	100	70	130	3.3	20	
Manganese	0.0763	mg/L	0.010	109	70	130	2.2	20	
Molybdenum	0.0690	mg/L	0.10	99	70	130	0.0	20	
Nickel	0.0690	mg/L	0.050	99	70	130	3.9	20	
Thorium 232	0.0716	mg/L	0.0010	102	70	130	2.9	20	
Uranium	0.0716	mg/L	0.00030	102	70	130	2.5	20	
Vanadium	0.0728	mg/L	0.10	104	70	130	0.0	20	
Zinc	0.0695	mg/L	0.010	97	70	130	3.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R94414
Sample ID: LRB	Method Blank				Run: SUB-C94414				12/17/07 15:10
Aluminum	ND	mg/L	0.0002						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	9E-05						
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0001						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	2E-05						
Manganese	ND	mg/L	3E-05						
Molybdenum	0.0003	mg/L	7E-05						
Nickel	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	9E-05						
Zinc	ND	mg/L	0.002						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C94414				12/17/07 15:24
Aluminum	0.0497	mg/L	0.0010	99	85	115			
Arsenic	0.0504	mg/L	0.0010	101	85	115			
Barium	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0513	mg/L	0.0010	102	85	115			
Chromium	0.0498	mg/L	0.0010	100	85	115			
Copper	0.0522	mg/L	0.0010	104	85	115			
Lead	0.0502	mg/L	0.0010	100	85	115			
Manganese	0.0491	mg/L	0.0010	98	85	115			
Molybdenum	0.0515	mg/L	0.0010	102	85	115			
Nickel	0.0498	mg/L	0.0010	100	85	115			
Silver	0.0197	mg/L	0.0010	99	85	115			
Thorium 232	0.0502	mg/L	0.0010	100	85	115			
Uranium	0.0493	mg/L	0.00030	99	85	115			
Vanadium	0.0507	mg/L	0.0010	101	85	115			
Zinc	0.0513	mg/L	0.0021	103	85	115			
Sample ID: C07120311-004EMS4	Post Digestion Spike				Run: SUB-C94414				12/18/07 06:20
Aluminum	0.487	mg/L	0.10	97	70	130			
Arsenic	0.480	mg/L	0.0016	95	70	130			
Barium	0.613	mg/L	0.10	98	70	130			
Cadmium	0.449	mg/L	0.010	90	70	130			
Chromium	0.451	mg/L	0.050	90	70	130			
Copper	0.468	mg/L	0.010	94	70	130			
Lead	0.479	mg/L	0.050	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R94414	
Sample ID: C07120311-004EMS4	Post Digestion Spike				Run: SUB-C94414			12/18/07 06:20	
Manganese	0.575	mg/L	0.010	91	70	130			
Molybdenum	0.477	mg/L	0.10	95	70	130			
Nickel	0.454	mg/L	0.050	90	70	130			
Silver	0.131	mg/L	0.010	66	70	130			S
Thorium 232	0.502	mg/L	0.0010	100	70	130			
Uranium	0.519	mg/L	0.00035	101	70	130			
Vanadium	0.481	mg/L	0.10	96	70	130			
Zinc	0.456	mg/L	0.021	91	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C07120311-004EMSD4	Post Digestion Spike Duplicate				Run: SUB-C94414			12/18/07 06:28	
Aluminum	0.476	mg/L	0.10	95	70	130	2.3	20	
Arsenic	0.482	mg/L	0.0016	95	70	130	0.3	20	
Barium	0.593	mg/L	0.10	94	70	130	3.4	20	
Cadmium	0.465	mg/L	0.010	93	70	130	3.5	20	
Chromium	0.462	mg/L	0.050	92	70	130	2.4	20	
Copper	0.462	mg/L	0.010	92	70	130	1.3	20	
Lead	0.480	mg/L	0.050	96	70	130	0.3	20	
Manganese	0.587	mg/L	0.010	93	70	130	2.0	20	
Molybdenum	0.496	mg/L	0.10	99	70	130	3.9	20	
Nickel	0.461	mg/L	0.050	92	70	130	1.6	20	
Silver	0.140	mg/L	0.010	70	70	130	6.6	20	
Thorium 232	0.505	mg/L	0.0010	101	70	130	0.6	20	
Uranium	0.523	mg/L	0.00035	102	70	130	0.8	20	
Vanadium	0.481	mg/L	0.10	96	70	130	0.1	20	
Zinc	0.447	mg/L	0.021	89	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R94699
Sample ID: LRB	Method Blank				Run: SUB-C94699				12/22/07 22:56
Thorium 232	0.0001	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C94699				12/22/07 23:04
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0500	mg/L	0.00030	100	85	115			
Sample ID: R07120148-005K	Post Digestion Spike				Run: SUB-C94699				12/23/07 11:34
Thorium 232	0.243	mg/L	0.0010	97	70	130			
Uranium	0.244	mg/L	0.00030	97	70	130			
Sample ID: R07120148-005K	Post Digestion Spike Duplicate				Run: SUB-C94699				12/23/07 12:04
Thorium 232	0.251	mg/L	0.0010	100	70	130	2.9	20	
Uranium	0.255	mg/L	0.00030	101	70	130	4.2	20	
Method: E200.8									Batch: C_R94802
Sample ID: LRB	Method Blank				Run: SUB-C94802				12/26/07 12:35
Mercury	ND	mg/L	8E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C94802				12/26/07 12:42
Mercury	0.00496	mg/L	0.0010	99	85	115			
Sample ID: R07120148-004E	Post Digestion Spike				Run: SUB-C94802				12/26/07 16:00
Mercury	0.00601	mg/L	0.0010	120	70	130			
Sample ID: R07120148-004E	Post Digestion Spike Duplicate				Run: SUB-C94802				12/26/07 16:07
Mercury	0.00550	mg/L	0.0010	110	70	130	8.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R32699
Sample ID: LFB0712131606-3	Laboratory Fortified Blank				Run: DIONEX_071213A				12/13/07 17:49
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0712131606-4	Laboratory Fortified Blank				Run: DIONEX_071213A				12/13/07 18:04
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.03	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.49	mg/L	0.10	100	90	110			
Sulfate	14.7	mg/L	1.0	98	90	110			
Sample ID: R07120132-001BMS	Sample Matrix Spike				Run: DIONEX_071213A				12/13/07 18:35
Fluoride	2.34	mg/L	0.10	101	80	120			
Sample ID: R07120132-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071213A				12/13/07 18:50
Fluoride	2.28	mg/L	0.10	98	80	120	2.6	10	
Sample ID: R07120163-006AMS	Sample Matrix Spike				Run: DIONEX_071213A				12/14/07 01:46
Chloride	70.3	mg/L	0.50	75	80	120			S
Fluoride	10.3	mg/L	0.32	103	80	120			
Nitrogen, Nitrate as N	25.2	mg/L	0.10	93	80	120			
Sulfate	220	mg/L	3.6	76	80	120			S
Sample ID: R07120163-006AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_071213A				12/14/07 02:02
Chloride	70.5	mg/L	0.50	76	80	120	0.2	10	S
Fluoride	10.3	mg/L	0.32	103	80	120	0.7	10	
Nitrogen, Nitrate as N	25.4	mg/L	0.10	94	80	120	0.7	10	
Sulfate	220	mg/L	3.6	75	80	120	0.1	10	S

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0372	
Sample ID: RB-GrAB-0372	Method Blank				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0372	Laboratory Control Sample				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	300	pCi/L	1.0	114	70	130			
Sample ID: Cs137-GrAB-0372	Laboratory Control Sample				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	90	pCi/L	2.0	95	70	130			
Sample ID: C07120838-001AMS	Sample Matrix Spike				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	1200	pCi/L	1.0	90	70	130			
Sample ID: C07120838-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95037			12/31/07 22:44	
Gross Alpha	1300	pCi/L	1.0	104	70	130	14	20	
Sample ID: C07120838-001AMS	Sample Matrix Spike				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	470	pCi/L	2.0	93	70	130			
Sample ID: C07120838-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95037			12/31/07 22:44	
Gross Beta	480	pCi/L	2.0	96	70	130	2.4	15.3	
Method: E901.1								Batch: C_R94634	
Sample ID: LCS-R94634	Laboratory Control Sample				Run: SUB-C94634			12/05/07 10:50	
Cesium 137	1180	pCi/L	20	84	70	130			
Potassium 40	7170	pCi/L	20	107	70	130			
Sample ID: MB-R94634	Method Blank				Run: SUB-C94634			12/05/07 10:50	
Gross Gamma	ND	pCi/L	20						
Sample ID: C07121021-009ADUP	Sample Duplicate				Run: SUB-C94634			12/05/07 10:50	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_17292
Sample ID: R07120148-001K	Sample Duplicate				Run: SUB-C94954				12/31/07 11:00
Radium 226	ND	pCi/L	0.20		70	130	0.0	205.7	
Sample ID: R07120148-005K	Sample Matrix Spike				Run: SUB-C94954				12/31/07 12:18
Radium 226	60	pCi/L	0.20	97	70	130			
Sample ID: MB-17292	Method Blank				Run: SUB-C94954				12/31/07 12:18
Radium 226	ND	pCi/L	0.004						
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C94954				12/31/07 12:18
Radium 226	12	pCi/L	0.20	98	70	130			
Method: E903.0									Batch: C_RA226-2509
Sample ID: C07110702-001AMS	Sample Matrix Spike				Run: SUB-C94882				12/27/07 17:44
Radium 226	16	pCi/L	1.0	101	70	130			
Sample ID: C07110702-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94882				12/27/07 18:44
Radium 226	15	pCi/L	1.0	97	70	130	2.5	27.1	
Sample ID: MB-RA226-2509	Method Blank				Run: SUB-C94882				12/28/07 07:49
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2509	Laboratory Control Sample				Run: SUB-C94882				12/28/07 09:50
Radium 226	12	pCi/L	0.20	98	70	130			
Method: E907.0									Batch: C_R95122
Sample ID: LCS-R95122	Laboratory Control Sample				Run: SUB-C95122				12/27/07 15:15
Thorium 230	5.30	pCi/L	0.20	108	70	130			
Sample ID: C07120686-002AMS	Sample Matrix Spike				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C07120686-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95122				12/27/07 15:15
Thorium 230	15.1	pCi/L	0.20	93	70	130	0.7	30	
Sample ID: MB-R95122	Method Blank				Run: SUB-C95122				12/27/07 15:15
Thorium 230	ND	pCi/L	0.2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R95271
Sample ID: C07120475-003AMS	Sample Matrix Spike				Run: SUB-C95271				12/27/07 14:30
Thorium 230	53.2	pCi/Filter	0.20	92	70	130			
Sample ID: C07120475-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95271				12/27/07 14:30
Thorium 230	56.3	pCi/Filter	0.20	96	70	130	5.7	30	
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C95271				12/27/07 14:30
Thorium 230	6.10	pCi/Filter	0.20	103	70	130			
Sample ID: MB-17292	Method Blank				Run: SUB-C95271				12/27/07 14:30
Thorium 230	ND	pCi/Filter	0.2						
Method: E909.0M									Batch: C_17292
Sample ID: R07120148-004K	Sample Matrix Spike				Run: SUB-C94885				12/26/07 10:30
Lead 210	490	pCi/L	1.0	123	70	130			
Sample ID: MB-R94885	Method Blank				Run: SUB-C94885				12/26/07 10:30
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94885	Laboratory Control Sample				Run: SUB-C94885				12/26/07 10:30
Lead 210	79	pCi/L	1.0	98	70	130			
Method: E909.0M									Batch: C_R94764
Sample ID: R07120148-002J	Sample Matrix Spike				Run: SUB-C94764				12/21/07 06:15
Lead 210	450	pCi/L	1.0	111	70	130			
Sample ID: R07120148-002J	Sample Matrix Spike Duplicate				Run: SUB-C94764				12/21/07 06:15
Lead 210	410	pCi/L	1.0	101	70	130	9.1	30	
Sample ID: MB-R94764	Method Blank				Run: SUB-C94764				12/21/07 06:15
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R94764	Laboratory Control Sample				Run: SUB-C94764				12/21/07 06:15
Lead 210	77	pCi/L	1.0	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/04/08
Work Order: R07120148

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_17292
Sample ID: R07120148-003K	Sample Matrix Spike				Run: SUB-C95192				01/02/08 16:00
Polonium 210	150	pCi/L	1.0	69	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the RPD for the MS MSD pair is acceptable, the low response is considered to be matrix relate									
Sample ID: R07120148-003K	Sample Matrix Spike Duplicate				Run: SUB-C95192				01/02/08 16:00
Polonium 210	160	pCi/L	1.0	75	70	130	8.5	30	
Sample ID: LCS-17292	Laboratory Control Sample				Run: SUB-C95192				01/02/08 16:00
Polonium 210	14	pCi/L	1.0	64	70	130			S
- Response is below standard QA limit. This could indicate a low bias for the sample results.									
Sample ID: MB-17292	Method Blank				Run: SUB-C95192				01/02/08 16:00
Polonium 210	0.2	pCi/L	0.02						
Method: RMO-3008									Batch: C_R94877
Sample ID: C07120686-001AMS	Sample Matrix Spike				Run: SUB-C94877				12/20/07 12:30
Polonium 210	190	pCi/L	1.0	82	70	130			
Sample ID: C07120686-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C94877				12/20/07 12:30
Polonium 210	200	pCi/L	1.0	88	70	130	6.1	30	
Sample ID: LCS-R94877	Laboratory Control Sample				Run: SUB-C94877				12/20/07 12:30
Polonium 210	18	pCi/L	1.0	79	70	130			
Sample ID: MB-R94877	Method Blank				Run: SUB-C94877				12/20/07 12:30
Polonium 210	ND	pCi/L	1						

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc. Power Tech DB	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax:	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED: As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: SW

Shipped by:

Cooler ID(s):

Receipt Temp 5.2 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	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)	Comments	LABORATORY USE ONLY
1	Dew Burd BVC4	12/11/07	10:00	W	set 4	B07120148-001
2	~~Dew Burd CHR01~~	~~12/11/07~~	~~12:05~~	~~W~~		~~002~~
3	Dew Burd BVC01	12/11/07	12:20	W	set 6	~~003~~ 002
4	Dew Burd BVC01	12/11/07	12:25	W	set 3	~~004~~ 003
5	Dew Burd CHR05	12/11/07	13:50	W	set 2	~~005~~ 004
6	Dew Burd BLK01	12/12/07	08:30	W	set 5	~~006~~ 005
7						
8						
9						
10						

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	12/12/07 09:10	[signature]	Steve Troiland	12-12-07 9:10	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

February 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08010124 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 1/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08010124-001	DewBurdCHR05	01/11/08 8:30	01/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08010124-002	DewBurdBVC01	01/11/08 11:15	01/11/08	Aqueous	Same As Above
R08010124-003	DewBurdBVC04	01/11/08 13:00	01/11/08	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Thank you for submitting your samples to Energy Laboratories, Inc. - Rapid City. The following pages contain the results of the sample tests listed above and applicable analytical notes.

The samples were analyzed in accordance with the methods specified on the analytical reports. All analyses were accompanied by appropriate quality control samples throughout the test. Where applicable, the results of these quality control samples will be included, following your analytical data.

If you have any questions regarding the analyses performed or the results of these analyses, please contact Energy Laboratories Inc. - Rapid City at (605) 342-1225, (888) 672-1225 or Rapid_City@energylab.com.

Report Approved By: Linda Larson

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-001
Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
Collection Date: 01/11/08 08:30
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2	CFU/100ml	D	2		2	A9222 D	01/11/08 18:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	234	mg/L		5		1	A2320 B	01/21/08 16:02/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/21/08 16:02/sn
Bicarbonate as HCO3	285	mg/L		5		1	A2320 B	01/21/08 16:02/sn
Calcium	525	mg/L	D	1		10	E200.7	01/24/08 15:21/eli-c
Chloride	258	mg/L	D	2		50	E300.0	01/12/08 21:50/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/12/08 22:36/jmh
Magnesium	136	mg/L		0.5		1	E200.7	01/24/08 16:19/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/14/08 16:10/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	01/12/08 22:36/jmh
Potassium	7	mg/L		1		1	E200.7	01/24/08 16:19/eli-c
Silica	14.1	mg/L		0.5		1	E200.7	01/24/08 16:19/eli-c
Sodium	245	mg/L	D	8		10	E200.7	01/24/08 15:21/eli-c
Sulfate	1610	mg/L	D	40		50	E300.0	01/12/08 21:50/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3510	umhos/cm		5.0		1	A2510 B	01/17/08 16:55/jmh
pH	7.82	s.u.		0.01		1	A4500-H B	01/17/08 17:05/jmh
Sodium Adsorption Ratio (SAR)	2.5	unitless		0.10		1	Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	01/17/08 14:45/jmh
Solids, Total Dissolved TDS @ 180 C	3200	mg/L		5		1	A2540 C	01/16/08 10:02/sn
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	01/16/08 10:49/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/20/08 23:07/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/17/08 18:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/17/08 18:08/eli-c
Boron	0.3	mg/L		0.1		1	E200.7	01/24/08 16:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/17/08 18:08/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	01/20/08 23:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/17/08 18:08/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/24/08 16:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/17/08 18:08/eli-c
Manganese	0.07	mg/L		0.01		1	E200.8	01/20/08 23:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/17/08 18:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/17/08 18:08/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-001
Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
Collection Date: 01/11/08 08:30
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	01/17/08 18:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/17/08 18:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/17/08 18:08/eli-c
Uranium	0.0150	mg/L		0.0003		1	E200.8	01/17/08 18:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/17/08 18:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/17/08 18:08/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	01/20/08 21:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/20/08 21:33/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	01/20/08 16:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/20/08 16:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/20/08 16:47/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:29/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/20/08 16:47/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/20/08 16:47/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	01/12/08 10:44/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01		1	E200.8	01/20/08 16:47/eli-c
Iron	0.06	mg/L		0.03		1	E200.7	01/24/08 16:29/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/20/08 16:47/eli-c
Manganese	0.13	mg/L		0.01		1	E200.8	01/20/08 16:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/20/08 16:47/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/20/08 16:47/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/20/08 16:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/20/08 16:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/20/08 16:47/eli-c
Uranium	0.0158	mg/L		0.0003		1	E200.8	01/20/08 16:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/20/08 16:47/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/20/08 16:47/eli-c
Calcium	515	mg/L	D	0.8		10	E200.7	01/24/08 16:08/eli-c
Magnesium	132	mg/L		0.5		1	E200.7	01/24/08 16:29/eli-c
Potassium	6.2	mg/L		0.5		1	E200.7	01/24/08 16:29/eli-c
Silica	13.5	mg/L		0.1		1	E200.7	01/24/08 16:29/eli-c
Sodium	248	mg/L		0.5		1	E200.7	01/24/08 16:29/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-001
Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
Collection Date: 01/11/08 08:30
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/17/08 12:33/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/17/08 09:49/eli-ca
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/21/08 13:50/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/21/08 11:13/eli-ca
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	22	pCi/L		1.0		1	E909.0M	01/21/08 11:30/eli-c
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/28/08 11:26/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.3	pCi/L		1.0		1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Beta	10.8	pCi/L		2.0		1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	22	pCi/L		1.0		1	E909.0M	02/05/08 17:18/sec
Lead 210 precision (±)	3.6	pCi/L				1	E909.0M	02/05/08 17:18/sec
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/05/08 17:18/sec
DATA QUALITY								
A/C Balance (± 5)	2.85	%				1	A1030 E	02/05/08 13:41/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-001
Client Sample ID: DewBurdCHR05

Report Date: 02/29/08
Collection Date: 01/11/08 08:30
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Anions	45.6	meq/L				1	A1030 E	02/05/08 13:41/sec
Cations	48.2	meq/L				1	A1030 E	02/05/08 13:41/sec
Solids, Total Dissolved Calculated	2920	mg/L				1	A1030 E	02/05/08 13:41/sec
TDS Balance (0.80 - 1.20)	1.10	dec. %				1	A1030 E	02/05/08 13:41/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-002
Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
Collection Date: 01/11/08 11:15
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	16	CFU/100ml	D	2		2	A9222 D	01/11/08 18:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	01/21/08 16:03/sn
Calcium	499	mg/L	D	1		10	E200.7	01/24/08 15:25/eli-c
Chloride	208	mg/L	D	2		50	E300.0	01/12/08 22:52/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	01/12/08 23:07/jmh
Magnesium	114	mg/L		0.5		1	E200.7	01/24/08 16:23/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/14/08 16:11/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	01/12/08 23:07/jmh
Potassium	5	mg/L		1		1	E200.7	01/24/08 16:23/eli-c
Silica	13.0	mg/L		0.5		1	E200.7	01/24/08 16:23/eli-c
Sodium	182	mg/L	D	8		10	E200.7	01/24/08 15:25/eli-c
Sulfate	1470	mg/L	D	40		50	E300.0	01/12/08 22:52/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3140	umhos/cm		5.0		1	A2510 B	01/17/08 16:55/jmh
pH	7.68	s.u.		0.01		1	A4500-H B	01/17/08 17:06/jmh
Sodium Adsorption Ratio (SAR)	1.9	unitless		0.10		1	Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	12	mg/L		5		1	D3977	01/17/08 14:46/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	01/16/08 10:05/sn
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	01/16/08 10:50/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/20/08 23:14/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	01/20/08 23:14/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/24/08 16:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/20/08 23:14/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/17/08 18:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-002
Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
Collection Date: 01/11/08 11:15
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/17/08 18:15/eli-c
Uranium	0.0134	mg/L		0.0003		1	E200.8	01/17/08 18:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/17/08 18:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/17/08 18:15/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	01/20/08 21:39/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/20/08 21:39/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/20/08 16:54/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	01/12/08 10:44/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Iron	0.29	mg/L		0.03		1	E200.7	01/24/08 16:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/20/08 16:54/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/20/08 16:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/20/08 16:54/eli-c
Uranium	0.0139	mg/L		0.0003		1	E200.8	01/20/08 16:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/20/08 16:54/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/20/08 16:54/eli-c
Calcium	506	mg/L	D	0.8		10	E200.7	01/24/08 16:13/eli-c
Magnesium	121	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c
Potassium	5.3	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c
Silica	14.6	mg/L		0.1		1	E200.7	01/24/08 16:32/eli-c
Sodium	191	mg/L		0.5		1	E200.7	01/24/08 16:32/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-002
Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
Collection Date: 01/11/08 11:15
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/17/08 12:35/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/17/08 09:51/eli-ca
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/21/08 13:52/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/21/08 11:15/eli-ca
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/28/08 11:26/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	12.6	pCi/L		1.0		1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	1.9	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Beta	4.1	pCi/L		2.0		1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	4.6	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	02/05/08 17:18/sec
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	02/05/08 17:18/sec
Polonium 210 precision (±)	1.1	pCi/L				1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/05/08 17:18/sec
DATA QUALITY								
A/C Balance (± 5)	1.85	%				1	A1030 E	02/05/08 13:42/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-002
Client Sample ID: DewBurdBVC01

Report Date: 02/29/08
Collection Date: 01/11/08 11:15
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Anions	40.8	meq/L				1	A1030 E	02/05/08 13:42/sec
Cations	42.3	meq/L				1	A1030 E	02/05/08 13:42/sec
Solids, Total Dissolved Calculated	2610	mg/L				1	A1030 E	02/05/08 13:42/sec
TDS Balance (0.80 - 1.20)	1.09	dec. %				1	A1030 E	02/05/08 13:42/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-003
Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
Collection Date: 01/11/08 13:00
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	2		2	A9222 D	01/11/08 18:15/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	220	mg/L		5		1	A2320 B	01/21/08 16:06/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	01/21/08 16:06/sn
Bicarbonate as HCO3	268	mg/L		5		1	A2320 B	01/21/08 16:06/sn
Calcium	463	mg/L	D	1		10	E200.7	01/24/08 15:28/eli-c
Chloride	255	mg/L	D	2		50	E300.0	01/12/08 23:23/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	01/12/08 23:38/jmh
Magnesium	124	mg/L		0.5		1	E200.7	01/24/08 16:26/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	01/14/08 16:12/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	01/12/08 23:38/jmh
Potassium	5	mg/L		1		1	E200.7	01/24/08 16:26/eli-c
Silica	14.1	mg/L		0.5		1	E200.7	01/24/08 16:26/eli-c
Sodium	224	mg/L	D	8		10	E200.7	01/24/08 15:28/eli-c
Sulfate	1450	mg/L	D	40		50	E300.0	01/12/08 23:23/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3310	umhos/cm		5.0		1	A2510 B	01/17/08 16:56/jmh
pH	7.80	s.u.		0.01		1	A4500-H B	01/17/08 17:06/jmh
Sodium Adsorption Ratio (SAR)	2.4	unitless		0.10		1	Calculation	02/05/08 13:40/sec
Solids, Suspended Sediment SSC @ 105 C	24	mg/L		5		1	D3977	01/17/08 14:46/jmh
Solids, Total Dissolved TDS @ 180 C	3000	mg/L		5		1	A2540 C	01/16/08 10:06/sn
Solids, Total Suspended TSS @ 105 C	25	mg/L		5		1	A2540 D	01/16/08 10:51/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	01/20/08 23:21/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	01/17/08 18:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/17/08 18:21/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/17/08 18:21/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	01/20/08 23:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	01/17/08 18:21/eli-c
Iron	ND	mg/L		0.03		1	E200.7	01/24/08 16:26/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/17/08 18:21/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	01/20/08 23:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/17/08 18:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/17/08 18:21/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-003
Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
Collection Date: 01/11/08 13:00
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	01/17/08 18:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/17/08 18:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/17/08 18:21/eli-c
Uranium	0.0141	mg/L		0.0003		1	E200.8	01/17/08 18:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/17/08 18:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/17/08 18:21/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	01/20/08 21:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	01/20/08 21:46/eli-c
METALS - TOTAL								
Aluminum	0.6	mg/L		0.1		1	E200.8	01/20/08 17:01/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	01/20/08 17:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	01/20/08 17:01/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	01/24/08 16:55/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	01/20/08 17:01/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	01/20/08 17:01/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	01/12/08 10:45/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	02/05/08 13:49/sec
Copper	ND	mg/L		0.01		1	E200.8	01/20/08 17:01/eli-c
Iron	0.68	mg/L		0.03		1	E200.7	01/24/08 16:55/eli-c
Lead	ND	mg/L		0.001		1	E200.8	01/20/08 17:01/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	01/20/08 17:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	01/20/08 17:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	01/20/08 17:01/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	01/20/08 17:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	01/20/08 17:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	01/20/08 17:01/eli-c
Uranium	0.0144	mg/L		0.0003		1	E200.8	01/20/08 17:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	01/20/08 17:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	01/20/08 17:01/eli-c
Calcium	508	mg/L	D	0.8		10	E200.7	01/24/08 16:16/eli-c
Magnesium	125	mg/L		0.5		1	E200.7	01/24/08 16:55/eli-c
Potassium	5.4	mg/L		0.5		1	E200.7	01/24/08 16:55/eli-c
Silica	16.6	mg/L		0.1		1	E200.7	01/24/08 16:55/eli-c
Sodium	259	mg/L		0.5		1	E200.7	01/24/08 16:55/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-003
Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
Collection Date: 01/11/08 13:00
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/17/08 12:37/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/17/08 09:53/eli-ca
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	01/17/08 13:11/eli-ca
METALS - TOTAL - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	01/21/08 13:54/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	01/21/08 11:17/eli-ca
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	01/21/08 14:21/eli-ca
RADIONUCLIDES - DISSOLVED								
Lead 210	2.2	pCi/L		1.0		1	E909.0M	01/17/08 11:45/eli-c
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	01/17/08 11:45/eli-c
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/29/08 16:57/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/17/08 16:00/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	ND	pCi/L		1.0		1	E909.0M	01/21/08 11:30/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	01/21/08 14:00/eli-c
Radium 226	ND	pCi/L		0.2		1	E903.0	01/28/08 12:51/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	01/21/08 14:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	13.9	pCi/L		1.0		1	E900.0	01/23/08 09:33/eli-c
Gross Alpha precision (±)	2.6	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Beta	7.2	pCi/L		2.0		1	E900.0	01/23/08 09:33/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	01/23/08 09:33/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	01/17/08 16:36/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	2.2	pCi/L		1.0		1	E909.0M	02/05/08 17:18/sec
Lead 210 precision (±)	1.0	pCi/L				1	E909.0M	02/05/08 17:18/sec
Polonium 210	1.8	pCi/L		1.0		1	RMO-3008	02/05/08 17:18/sec
Polonium 210 precision (±)	1.2	pCi/L				1	RMO-3008	02/05/08 17:18/sec
Radium 226	ND	pCi/L		0.2		1	E903.0	02/05/08 17:18/sec
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/05/08 17:18/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08010124-003
Client Sample ID: DewBurdBVC04

Report Date: 02/29/08
Collection Date: 01/11/08 13:00
Date Received: 01/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
A/C Balance (± 5)	1.72	%				1	A1030 E	02/05/08 13:42/sec
Anions	41.7	meq/L				1	A1030 E	02/05/08 13:42/sec
Cations	43.2	meq/L				1	A1030 E	02/05/08 13:42/sec
Solids, Total Dissolved Calculated	2650	mg/L				1	A1030 E	02/05/08 13:42/sec
TDS Balance (0.80 - 1.20)	1.12	dec. %				1	A1030 E	02/05/08 13:42/sec

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080121A-ALK-SEL-W	
Sample ID: MBLK1_080121A	Method Blank				Run: PH_COND1-R_080121A			01/21/08 15:58	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_080121A	Laboratory Control Sample				Run: PH_COND1-R_080121A			01/21/08 16:00	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	100	90	110			
Sample ID: R08010143-007AMS	Sample Matrix Spike				Run: PH_COND1-R_080121A			01/21/08 16:33	
Alkalinity, Total as CaCO3	280	mg/L	5.0	89	80	120			
Sample ID: R08010143-007AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080121A			01/21/08 16:44	
Alkalinity, Total as CaCO3	284	mg/L	5.0	92	80	120	1.4	10	
Method: A2510 B								Batch: 080117_1_COND-PROBE-W	
Sample ID: LCS1-1_080117	Laboratory Control Sample				Run: PH_COND2-R_080117A			01/17/08 16:48	
Conductivity @ 25 C	145	umhos/cm	5.0	97	90	110			
Sample ID: LCS2-1_080117	Laboratory Control Sample				Run: PH_COND2-R_080117A			01/17/08 16:49	
Conductivity @ 25 C	4850	umhos/cm	5.0	97	90	110			
Sample ID: LCS_COND-1_080117	Laboratory Control Sample				Run: PH_COND2-R_080117A			01/17/08 16:50	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_080117	Method Blank				Run: PH_COND2-R_080117A			01/17/08 16:51	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08010118-001ADUP	Sample Duplicate				Run: PH_COND2-R_080117A			01/17/08 16:54	
Conductivity @ 25 C	3890	umhos/cm	5.0				0.8	10	
Method: A2540 C								Batch: 080116A-SLDS-TDS-W	
Sample ID: MBLK1_080116A	Method Blank				Run: BAL-4-R_080116B			01/16/08 09:52	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080116A	Laboratory Control Sample				Run: BAL-4-R_080116B			01/16/08 09:53	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	109	90	110			
Sample ID: R08010124-001CMS	Sample Matrix Spike				Run: BAL-4-R_080116B			01/16/08 10:03	
Solids, Total Dissolved TDS @ 180 C	3400	mg/L	5.0	102	80	120			
Sample ID: R08010124-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080116B			01/16/08 10:04	
Solids, Total Dissolved TDS @ 180 C	3400	mg/L	5.0	95	80	120	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080116A-SLDS-TSS-W	
Sample ID: MBLK1_080116A	Method Blank				Run: BAL-4-R_080116A			01/16/08 10:41	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080116A	Laboratory Control Sample				Run: BAL-4-R_080116A			01/16/08 10:42	
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	98	85	115			
Method: A3114 B								Batch: C_R95691	
Sample ID: R08010124-001A	Sample Matrix Spike				Run: SUB-C95691			01/17/08 13:11	
Selenium-VI	0.0026	mg/L	0.0010	1	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate				Run: SUB-C95691			01/17/08 13:11	
Selenium-VI	0.0022	mg/L	0.0010	1	85	115	0.0	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: A3114 B								Batch: C_R95840	
Sample ID: R08010124-001H	Sample Matrix Spike				Run: SUB-C95840			01/21/08 14:21	
Selenium-VI	0.050	mg/L	0.0010	94	85	115			
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate				Run: SUB-C95840			01/21/08 14:21	
Selenium-VI	0.052	mg/L	0.0010	98	85	115	4.0	10	
Method: A3114 B								Batch: C_SE3114-080117	
Sample ID: MBLK	Method Blank				Run: SUB-C95688			01/17/08 12:18	
Selenium	ND	mg/L	0.0003						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C95688			01/17/08 12:25	
Selenium	0.054	mg/L	0.0010	107	90	110			
Sample ID: R08010124-001A	Sample Matrix Spike				Run: SUB-C95688			01/17/08 12:44	
Selenium	0.048	mg/L	0.0010	90	85	115			
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate				Run: SUB-C95688			01/17/08 12:46	
Selenium	0.048	mg/L	0.0010	92	85	115	1.3	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080121	
Sample ID: MBLK	Method Blank				Run: SUB-C95838			01/21/08 13:46	
Selenium	0.0007	mg/L	0.0004						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C95838			01/21/08 13:48	
Selenium	0.050	mg/L	0.0010	98	90	110			
Sample ID: R08010124-001H	Sample Matrix Spike				Run: SUB-C95838			01/21/08 13:56	
Selenium	0.050	mg/L	0.0010	94	85	115			
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate				Run: SUB-C95838			01/21/08 13:58	
Selenium	0.052	mg/L	0.0010	98	85	115	4.0	10	
Method: A3114 B								Batch: C_SE3114-IV-080117	
Sample ID: MBLK	Method Blank				Run: SUB-C95667			01/17/08 09:44	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C95667			01/17/08 09:46	
Selenium-IV	0.048	mg/L	0.0010	96	90	110			
Sample ID: R08010124-001A	Sample Matrix Spike				Run: SUB-C95667			01/17/08 09:55	
Selenium-IV	0.045	mg/L	0.0010	89	85	115			
Sample ID: R08010124-001A	Sample Matrix Spike Duplicate				Run: SUB-C95667			01/17/08 09:57	
Selenium-IV	0.046	mg/L	0.0010	91	85	115	2.3	10	
Method: A3114 B								Batch: C_SEIV3114-080121	
Sample ID: MBLK	Method Blank				Run: SUB-C95828			01/21/08 11:08	
Selenium-IV	ND	mg/L	0.0002						
Sample ID: 288-20-3	Laboratory Control Sample				Run: SUB-C95828			01/21/08 11:11	
Selenium-IV	0.050	mg/L	0.0010	99	90	110			
Sample ID: R08010124-001H	Sample Matrix Spike				Run: SUB-C95828			01/21/08 11:21	
Selenium-IV	0.047	mg/L	0.0010	94	85	115			
Sample ID: R08010124-001H	Sample Matrix Spike Duplicate				Run: SUB-C95828			01/21/08 11:23	
Selenium-IV	0.048	mg/L	0.0010	96	85	115	2.0	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080112A-CR-HEX-W	
Sample ID: MBLK1_080112A	Method Blank				Run: SPEC1_080112A			01/12/08 10:42	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_080112A	Laboratory Control Sample				Run: SPEC1_080112A			01/12/08 10:42	
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			
Sample ID: R08010124-001Ems	Sample Matrix Spike				Run: SPEC1_080112A			01/12/08 10:44	
Chromium, Hexavalent	0.20	mg/L	0.0050	101	80	120			
Sample ID: R08010124-002Ems	Sample Matrix Spike				Run: SPEC1_080112A			01/12/08 10:45	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R08010124-003Ems	Sample Matrix Spike				Run: SPEC1_080112A			01/12/08 10:45	
Chromium, Hexavalent	0.21	mg/L	0.0050	103	80	120			
Method: A4500-H B								Batch: 080117_1_PH-W	
Sample ID: LCS_pH-1_080117	Laboratory Control Sample				Run: PH_COND2-R_080117A			01/17/08 17:03	
pH	6.91	s.u.	0.010	101	98.55	101.45			
Sample ID: R08010118-001ADUP	Sample Duplicate				Run: PH_COND2-R_080117A			01/17/08 17:04	
pH	6.30	s.u.	0.010				0.3	1.25	
Method: A4500-NH3 G								Batch: A2008-01-14_2_NH3_01	
Sample ID: MBLK-1	Method Blank				Run: TECHAA2-R_080114A			01/14/08 14:58	
Nitrogen, Ammonia as N	ND	mg/L	0.02						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080114A			01/14/08 15:01	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	108	90	110			
Sample ID: LFB-5	Laboratory Fortified Blank				Run: TECHAA2-R_080114A			01/14/08 15:02	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	106	90	110			
Sample ID: R08010103-002CMS	Sample Matrix Spike				Run: TECHAA2-R_080114A			01/14/08 16:02	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120			
Method: A9222 D								Batch: 080111-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080111A			01/11/08 18:15	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_17535
Sample ID: MB-17535	Method Blank				Run: SUB-C96073				01/24/08 14:12
Boron	ND	mg/L	0.01						
Iron	0.01	mg/L	0.009						
Sample ID: LCS-17535	Laboratory Control Sample				Run: SUB-C96073				01/24/08 14:16
Boron	0.494	mg/L	0.10	99	85	115			
Iron	0.518	mg/L	0.030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R96073	
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C96073			01/24/08 13:11	
Silica	1.9	mg/L	0.10	94	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C96073			01/24/08 13:15	
Calcium	29	mg/L	0.50	115	85	125			
Magnesium	27	mg/L	0.50	109	85	125			
Potassium	28	mg/L	0.50	112	85	125			
Sodium	26	mg/L	0.76	106	85	125			
Sample ID: LRB	Laboratory Reagent Blank				Run: SUB-C96073			01/24/08 13:21	
Silica	ND	mg/L	0.10		0	0			
Boron	0.012	mg/L	0.10		0	0			
Calcium	ND	mg/L	0.50		0	0			
Iron	ND	mg/L	0.030		0	0			
Magnesium	ND	mg/L	0.50		0	0			
Potassium	ND	mg/L	0.50		0	0			
Sodium	ND	mg/L	0.76		0	0			
Sample ID: C08010646-001BMS	Sample Matrix Spike				Run: SUB-C96073			01/24/08 15:35	
Boron	11.4	mg/L	0.10	101	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Calcium	759	mg/L	1.0	90	70	130			
Magnesium	510	mg/L	0.50	93	70	130			
Potassium	1240	mg/L	0.50	98	70	130			
Silica	52.7	mg/L	0.20		0	0			A
Sodium	1340	mg/L	7.6	83	70	130			
Sample ID: C08010646-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C96073			01/24/08 15:38	
Boron	11.4	mg/L	0.10	100	70	130	0.4	20	
Iron	9.62	mg/L	0.046	96	70	130	0.9	20	
Calcium	753	mg/L	1.0	89	70	130	0.8	20	
Magnesium	504	mg/L	0.50	92	70	130	1.2	20	
Potassium	1220	mg/L	0.50	97	70	130	1.5	20	
Silica	52.6	mg/L	0.20		70	130	0.2	20	A
Sodium	1330	mg/L	7.6	81	70	130	0.9	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17535
Sample ID: MB-17535	Method Blank				Run: SUB-C95861				01/20/08 15:06
Aluminum	0.002	mg/L	0.0002						
Arsenic	ND	mg/L	5E-05						
Barium	0.0002	mg/L	9E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	7E-05	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	5E-05						
Manganese	ND	mg/L	3E-05						
Mercury	0.0001	mg/L	6E-06						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Silver	0.002	mg/L	4E-05						
Uranium	6E-05	mg/L	3E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	0.002	mg/L							
Sample ID: LCS1-17535	Laboratory Control Sample				Run: SUB-C95861				01/20/08 15:12
Aluminum	0.0211	mg/L	0.10	97	80	120			
Arsenic	0.0203	mg/L	0.0010	101	80	120			
Barium	0.0222	mg/L	0.10	110	80	120			
Cadmium	0.0214	mg/L	0.010	107	80	120			
Chromium	0.0206	mg/L	0.050	103	80	120			
Copper	0.0208	mg/L	0.010	104	80	120			
Lead	0.0210	mg/L	0.050	105	80	120			
Manganese	0.0206	mg/L	0.010	103	80	120			
Mercury	0.000763	mg/L	0.0010	6	80	120			S
Molybdenum	0.0214	mg/L	0.10	107	80	120			
Nickel	0.0211	mg/L	0.050	105	80	120			
Silver	0.0208	mg/L	0.010	95	80	120			
Uranium	0.0212	mg/L	0.00030	106	80	120			
Vanadium	0.0206	mg/L	0.10	103	80	120			
Zinc	0.0222	mg/L	0.010	102	80	120			
Sample ID: LCS-17535	Laboratory Control Sample				Run: SUB-C95861				01/20/08 15:19
Aluminum	0.514	mg/L	0.10	102	85	115			
Arsenic	0.549	mg/L	0.0010	110	85	115			
Barium	0.553	mg/L	0.10	111	85	115			
Cadmium	0.537	mg/L	0.010	107	85	115			
Chromium	0.536	mg/L	0.050	107	85	115			
Copper	0.525	mg/L	0.010	105	85	115			
Lead	0.538	mg/L	0.050	108	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_17535	
Sample ID: LCS-17535	Laboratory Control Sample				Run: SUB-C95861			01/20/08 15:19	
Manganese	0.527	mg/L	0.010	105	85	115			
Molybdenum	0.540	mg/L	0.10	108	85	115			
Nickel	0.533	mg/L	0.050	107	85	115			
Silver	0.246	mg/L	0.010	122	85	115			S
Uranium	0.551	mg/L	0.00032	110	85	115			
Vanadium	0.536	mg/L	0.10	107	85	115			
Zinc	0.536	mg/L	0.010	107	85	115			
Sample ID: R08010124-003B	Post Digestion Spike				Run: SUB-C95861			01/20/08 17:08	
Aluminum	0.662	mg/L	0.10		70	130			A
Arsenic	0.0730	mg/L	0.0010	103	70	130			
Barium	0.101	mg/L	0.10	101	70	130			
Cadmium	0.0657	mg/L	0.010	94	70	130			
Chromium	0.0705	mg/L	0.050	99	70	130			
Copper	0.0689	mg/L	0.010	94	70	130			
Lead	0.0723	mg/L	0.050	103	70	130			
Manganese	0.181	mg/L	0.010	94	70	130			
Mercury	0.00619	mg/L	0.0010	88	70	130			
Molybdenum	0.0963	mg/L	0.10	106	70	130			
Nickel	0.0741	mg/L	0.050	99	70	130			
Silver	0.0273	mg/L	0.010	68	70	130			S
Uranium	0.0868	mg/L	0.00030	103	70	130			
Vanadium	0.0739	mg/L	0.10	103	70	130			
Zinc	0.0696	mg/L	0.010	92	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08010124-003B	Post Digestion Spike Duplicate				Run: SUB-C95861			01/20/08 17:14	
Aluminum	0.645	mg/L	0.10		70	130	2.7	20	A
Arsenic	0.0740	mg/L	0.0010	104	70	130	1.3	20	
Barium	0.105	mg/L	0.10	106	70	130	3.8	20	
Cadmium	0.0668	mg/L	0.010	95	70	130	1.7	20	
Chromium	0.0710	mg/L	0.050	100	70	130	0.7	20	
Copper	0.0694	mg/L	0.010	95	70	130	0.7	20	
Lead	0.0741	mg/L	0.050	105	70	130	2.4	20	
Manganese	0.182	mg/L	0.010	95	70	130	0.6	20	
Mercury	0.00644	mg/L	0.0010	92	70	130	3.9	20	
Molybdenum	0.0963	mg/L	0.10	106	70	130	0.0	20	
Nickel	0.0743	mg/L	0.050	99	70	130	0.3	20	
Silver	0.0304	mg/L	0.010	76	70	130	11	20	
Uranium	0.0913	mg/L	0.00030	110	70	130	5.1	20	
Vanadium	0.0745	mg/L	0.10	104	70	130	0.0	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17535
Sample ID: R08010124-003B	Post Digestion Spike Duplicate				Run: SUB-C95861				01/20/08 17:14
Zinc	0.0695	mg/L	0.010	92	70	130	0.1	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: E200.8									Batch: C_17550
Sample ID: MB-17550	Method Blank				Run: SUB-C95861				01/20/08 21:12
Thorium 232	2E-05	mg/L							
Uranium	ND	mg/L							
Sample ID: LCS1-17550	Laboratory Control Sample				Run: SUB-C95861				01/20/08 21:19
Uranium	0.0550	mg/L	0.00030	105	80	120			
Sample ID: R08010124-003K	Post Digestion Spike				Run: SUB-C95861				01/20/08 21:53
Thorium 232	0.0522	mg/L	0.0010	104	70	130			
Uranium	0.0518	mg/L	0.00030	103	70	130			
Sample ID: R08010124-003K	Post Digestion Spike Duplicate				Run: SUB-C95861				01/20/08 21:59
Thorium 232	0.0534	mg/L	0.0010	106	70	130	2.3	20	
Uranium	0.0527	mg/L	0.00030	105	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R95693
Sample ID: LRB	Method Blank				Run: SUB-C95693				01/17/08 11:55
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	ND	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.002	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.001	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C95693				01/17/08 12:02
Arsenic	0.0527	mg/L	0.0010	105	85	115			
Barium	0.0527	mg/L	0.0010	105	85	115			
Cadmium	0.0545	mg/L	0.0010	109	85	115			
Copper	0.0530	mg/L	0.0010	106	85	115			
Lead	0.0530	mg/L	0.0010	106	85	115			
Mercury	0.00540	mg/L	0.0010	108	85	115			
Molybdenum	0.0550	mg/L	0.0010	110	85	115			
Nickel	0.0525	mg/L	0.0010	105	85	115			
Silver	0.0204	mg/L	0.0010	94	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0522	mg/L	0.00030	104	85	115			
Vanadium	0.0540	mg/L	0.0010	108	85	115			
Zinc	0.0550	mg/L	0.0010	107	85	115			
Sample ID: R08010124-003A	Post Digestion Spike				Run: SUB-C95693				01/17/08 18:28
Arsenic	0.0579	mg/L	0.0010	114	70	130			
Barium	0.0747	mg/L	0.10	102	70	130			
Cadmium	0.0502	mg/L	0.010	100	70	130			
Copper	0.0486	mg/L	0.010	91	70	130			
Lead	0.0537	mg/L	0.050	107	70	130			
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0792	mg/L	0.10	117	70	130			
Nickel	0.0539	mg/L	0.050	95	70	130			
Silver	0.0155	mg/L	0.010	78	70	130			
Thorium 232	0.0579	mg/L	0.0010	116	70	130			
Uranium	0.0715	mg/L	0.00030	115	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R95693	
Sample ID: R08010124-003A	Post Digestion Spike				Run: SUB-C95693			01/17/08 18:28	
Vanadium	0.0505	mg/L	0.10	99	70	130			
Zinc	0.0463	mg/L	0.010	88	70	130			
Sample ID: R08010124-003A	Post Digestion Spike Duplicate				Run: SUB-C95693			01/17/08 18:35	
Arsenic	0.0528	mg/L	0.0010	104	70	130	9.2	20	
Barium	0.0734	mg/L	0.10	99	70	130	0.0	20	
Cadmium	0.0467	mg/L	0.010	93	70	130	7.1	20	
Copper	0.0465	mg/L	0.010	87	70	130	4.5	20	
Lead	0.0512	mg/L	0.050	102	70	130	4.8	20	
Mercury	0.00525	mg/L	0.0010	105	70	130	2.7	20	
Molybdenum	0.0734	mg/L	0.10	106	70	130	0.0	20	
Nickel	0.0493	mg/L	0.050	85	70	130	0.0	20	
Silver	0.0161	mg/L	0.010	80	70	130	3.5	20	
Thorium 232	0.0547	mg/L	0.0010	109	70	130	5.7	20	
Uranium	0.0680	mg/L	0.00030	108	70	130	5.0	20	
Vanadium	0.0478	mg/L	0.10	93	70	130	0.0	20	
Zinc	0.0448	mg/L	0.010	86	70	130	3.2	20	
Method: E200.8								Batch: C_R95861	
Sample ID: LRB	Method Blank				Run: SUB-C95861			01/20/08 14:52	
Aluminum	ND	mg/L	0.0001						
Chromium	ND	mg/L	4E-05						
Manganese	ND	mg/L	5E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C95861			01/20/08 14:59	
Aluminum	0.0538	mg/L	0.0010	73	85	115			S
Chromium	0.0526	mg/L	0.0010	103	85	115			
Manganese	0.0525	mg/L	0.0010	104	85	115			
Sample ID: C08010421-002FMS4	Post Digestion Spike				Run: SUB-C95861			01/21/08 00:01	
Aluminum	0.0561	mg/L	0.10	106	70	130			
Chromium	0.0528	mg/L	0.050	106	70	130			
Manganese	0.0737	mg/L	0.010	106	70	130			
Sample ID: C08010421-002FMSD4	Post Digestion Spike Duplicate				Run: SUB-C95861			01/21/08 00:08	
Aluminum	0.0558	mg/L	0.10	106	70	130	0.0	20	
Chromium	0.0536	mg/L	0.050	107	70	130	1.5	20	
Manganese	0.0743	mg/L	0.010	107	70	130	0.8	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R33099
Sample ID: LFB0801121403-3	Laboratory Fortified Blank				Run: DIONEX_080112A				01/12/08 21:19
Chloride	4.91	mg/L	0.50	98	90	110			
Fluoride	2.04	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.4	mg/L	1.0	96	90	110			
Sample ID: LFB0801121403-4	Laboratory Fortified Blank				Run: DIONEX_080112A				01/12/08 21:35
Chloride	4.72	mg/L	0.50	94	90	110			
Fluoride	1.99	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.38	mg/L	0.10	95	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: R08010124-001CMS	Sample Matrix Spike				Run: DIONEX_080112A				01/12/08 22:06
Chloride	475	mg/L	2.0	87	80	120			
Fluoride	102	mg/L	3.2	94	80	120			
Nitrogen, Nitrate as N	124	mg/L	0.84	99	80	120			
Sulfate	2250	mg/L	36	85	80	120			
Sample ID: R08010124-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080112A				01/12/08 22:21
Chloride	461	mg/L	2.0	81	80	120	2.9	10	
Fluoride	99.7	mg/L	3.2	92	80	120	2.1	10	
Nitrogen, Nitrate as N	118	mg/L	0.84	94	80	120	4.7	10	
Sulfate	2240	mg/L	36	83	80	120	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0383	
Sample ID: RB-GrAB-0383	Method Blank				Run: SUB-C95875			01/22/08 08:04	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0383	Laboratory Control Sample				Run: SUB-C95875			01/22/08 08:05	
Gross Alpha	300	pCi/L	1.0	108	70	130			
Sample ID: Cs137-GrAB-0383	Laboratory Control Sample				Run: SUB-C95875			01/22/08 08:04	
Gross Beta	90	pCi/L	2.0	92	70	130			
Sample ID: C08010670-002IDUP	Sample Duplicate				Run: SUB-C95875			01/22/08 20:17	
Gross Alpha	3	pCi/L	1.0				32	43.4	
Gross Beta	ND	pCi/L	2.0				0.0	126.4	
Sample ID: C08010689-008ADUP	Sample Duplicate				Run: SUB-C95875			01/22/08 20:17	
Gross Alpha	36.7	pCi/L	1.0				5.1	18.9	
Gross Beta	5.26	pCi/L	2.0				42	114.1	
Sample ID: C07121289-006EDUP	Sample Duplicate				Run: SUB-C95875			01/23/08 09:33	
Gross Alpha	92	pCi/L	1.0				3.4	15.6	
Gross Beta	42	pCi/L	2.0				6.5	19.7	
Method: E901.1								Batch: C_R96034	
Sample ID: LCS-R96034	Laboratory Control Sample				Run: SUB-C96034			01/17/08 16:36	
Cesium 137	1170	pCi/L	20	83	70	130			
Potassium 40	7470	pCi/L	20	112	70	130			
Sample ID: MB-R96034	Method Blank				Run: SUB-C96034			01/17/08 16:36	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08010124-003I	Sample Duplicate				Run: SUB-C96034			01/17/08 16:36	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_17550
Sample ID: LCS-17550	Laboratory Control Sample				Run: SUB-C96206				01/28/08 12:51
Radium 226	13	pCi/L	0.20	102	70	130			
Sample ID: MB-17550	Method Blank				Run: SUB-C96206				01/28/08 12:51
Radium 226	ND	pCi/L	0.004						
Sample ID: C08010814-002EMS	Sample Matrix Spike				Run: SUB-C96206				01/28/08 12:51
Radium 226	19	pCi/L	0.20	100	70	130			
Sample ID: C08010814-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C96206				01/28/08 12:51
Radium 226	19	pCi/L	0.20	100	70	130	0.0	26.8	
Method: E903.0									Batch: C_RA226-2570
Sample ID: C08010841-001AMS	Sample Matrix Spike				Run: SUB-C96318				01/29/08 20:01
Radium 226	87	pCi/L	0.20	75	70	130			
Sample ID: C08010841-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C96318				01/29/08 20:01
Radium 226	89	pCi/L	0.20	90	70	130	2.1	16.8	
Sample ID: MB-RA226-2570	Method Blank				Run: SUB-C96318				01/29/08 20:01
Radium 226	ND	pCi/L	0.2						
Sample ID: LCS-RA226-2570	Laboratory Control Sample				Run: SUB-C96318				01/29/08 20:01
Radium 226	13	pCi/L	0.20	100	70	130			
Method: E907.0									Batch: C_17550
Sample ID: C08010565-001AMS	Sample Matrix Spike				Run: SUB-C96303				01/21/08 14:15
Thorium 230	48.8	pCi/Filter	0.20	105	70	130			
Sample ID: C08010565-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C96303				01/21/08 14:15
Thorium 230	38.8	pCi/Filter	0.20	83	70	130	23	30	
Sample ID: LCS-17550	Laboratory Control Sample				Run: SUB-C96303				01/21/08 14:15
Thorium 230	4.50	pCi/Filter	0.20	92	70	130			
Sample ID: MB-17550	Method Blank				Run: SUB-C96303				01/21/08 14:15
Thorium 230	ND	pCi/Filter	0.004						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R96218
Sample ID: LCS-R96218	Laboratory Control Sample				Run: SUB-C96218				01/17/08 16:00
Thorium 230	4.70	pCi/L	0.20	96	70	130			
Sample ID: C08010620-001AMS	Sample Matrix Spike				Run: SUB-C96218				01/17/08 16:00
Thorium 230	15.2	pCi/L	0.20	93	70	130			
Sample ID: C08010620-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C96218				01/17/08 16:00
Thorium 230	16.2	pCi/L	0.20	99	70	130	6.4	30	
Sample ID: MB-R96218	Method Blank				Run: SUB-C96218				01/17/08 16:00
Thorium 230	ND	pCi/L	0.2						
Method: E909.0M									Batch: C_17550
Sample ID: R08010124-003K	Sample Matrix Spike				Run: SUB-C96134				01/21/08 11:30
Lead 210	1300	pCi/L	1.0	112	70	130			
Sample ID: R08010124-003K	Sample Matrix Spike Duplicate				Run: SUB-C96134				01/21/08 11:30
Lead 210	990	pCi/L	1.0	83	70	130	30	30	
Sample ID: MB-R96134	Method Blank				Run: SUB-C96134				01/21/08 11:30
Lead 210	ND	pCi/Filter	1						
Sample ID: LCS-R96134	Laboratory Control Sample				Run: SUB-C96134				01/21/08 11:30
Lead 210	136	pCi/Filter	1.0	114	70	130			
Method: E909.0M									Batch: C_R95837
Sample ID: C08010421-004AMS	Sample Matrix Spike				Run: SUB-C95837				01/17/08 11:45
Lead 210	530	pCi/L	1.0	132	70	130			S
- Spike response is outside of the acceptance range for this analysis but within control limits. Since the LCS and the RPD for the MS MSD pair are acceptable, the high response is considered to be matrix related. The batch is approved.									
Sample ID: C08010421-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C95837				01/17/08 11:45
Lead 210	440	pCi/L	1.0	111	70	130	17	30	
Sample ID: MB-R95837	Method Blank				Run: SUB-C95837				01/17/08 11:45
Lead 210	ND	pCi/L	1						
Sample ID: LCS-R95837	Laboratory Control Sample				Run: SUB-C95837				01/17/08 11:45
Lead 210	51	pCi/L	1.0	72	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 02/29/08
Work Order: R08010124

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_17550
Sample ID: C08010814-002EMS	Sample Matrix Spike				Run: SUB-C96222				01/21/08 14:00
Polonium 210	97	pCi/L	1.0	75	70	130			
Sample ID: C08010814-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C96222				01/21/08 14:00
Polonium 210	100	pCi/L	1.0	80	70	130	7.2	30	
Sample ID: LCS-17550	Laboratory Control Sample				Run: SUB-C96222				01/21/08 14:00
Polonium 210	19	pCi/L	1.0	84	70	130			
Sample ID: MB-17550	Method Blank				Run: SUB-C96222				01/21/08 14:00
Polonium 210	ND	pCi/L	1						
Method: RMO-3008									Batch: C_R96219
Sample ID: LCS-R96219	Laboratory Control Sample				Run: SUB-C96219				01/21/08 14:00
Polonium 210	18	pCi/L	1.0	81	70	130			
Sample ID: MB-R96219	Method Blank				Run: SUB-C96219				01/21/08 14:00
Polonium 210	ND	pCi/L	1						
Sample ID: C08010814-001DMS	Sample Matrix Spike				Run: SUB-C96219				01/21/08 14:00
Polonium 210	170	pCi/L	1.0	76	70	130			
Sample ID: C08010814-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C96219				01/21/08 14:00
Polonium 210	190	pCi/L	1.0	85	70	130	11	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
RESPEC	Power Tech Dewey Burdock	State: SD, WY	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
RESPEC	Cory.Foreman@respec.com		ERIC KRANTZ
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
	attn: Cory Foreman		

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

☐ DW ☐ GSA ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____

☐ A2LA ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC

Number of Containers
Sample Type: A W S V B O
Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED: As per quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: All Surface Water

Shipped by:

Cooler ID(s):

Receipt Temp 2.8 °C

On Ice: (Yes) No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX												
1	DewBurdCHE05	1/11/08	08:30	W											Set #1	20801012 4-001
2	DewBurd BVC01	1/11/08	11:15	W											Set #10	002
3	DewBurd BVC04	1/18/08	13:00	W											Set #8	003
4																
5																
6																
7																
8																
9																
10																

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
[illegible]	1/11/08 18:05				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Lindo Larson	Date/Time: 1/11/08 1805	Signature: [illegible]

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1297 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

April 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08020083 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 2/11/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020083-001	DewBurd Sub08	02/10/08 15:10	02/11/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08020083-002	DewBurd Sub06	02/10/08 16:10	02/11/08	Aqueous	Same As Above
R08020083-003	DewBurd Sub02	02/10/08 17:00	02/11/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Linda Larson

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-001
Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
Collection Date: 02/10/08 15:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	246	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Bicarbonate as HCO3	300	mg/L		5		1	A2320 B	02/21/08 16:32/sn
Calcium	186	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Chloride	42	mg/L		1		5	E300.0	02/14/08 16:59/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/12/08 19:52/sn
Magnesium	78.8	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	02/11/08 17:53/sn
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/12/08 19:52/sn
Potassium	17	mg/L		1		1	E200.7	02/27/08 21:15/eli-c
Silica	9.9	mg/L		0.5		1	E200.7	02/27/08 21:15/eli-c
Sodium	759	mg/L	D	8		10	E200.7	02/27/08 18:57/eli-c
Sulfate	1790	mg/L	D	7		100	E300.0	02/14/08 16:43/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4180	umhos/cm		5.0		1	A2510 B	02/16/08 15:25/jmh
pH	7.54	s.u.		0.01		1	A4500-H B	02/16/08 14:59/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	66	mg/L		5		1	D3977	02/20/08 16:28/jmh
Solids, Total Dissolved TDS @ 180 C	3400	mg/L		5		1	A2540 C	02/11/08 14:57/jmh
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	02/15/08 10:59/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 21:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 21:25/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 21:25/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 21:25/eli-c
Iron	0.03	mg/L		0.03		1	E200.7	02/27/08 21:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8	02/21/08 21:25/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 21:25/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-001
Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
Collection Date: 02/10/08 15:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 21:25/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 17:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 21:25/eli-c
Uranium	0.0025	mg/L		0.0003		1	E200.8	02/21/08 21:25/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 21:25/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	02/21/08 21:25/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 23:23/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 23:23/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 21:17/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	02/21/08 05:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:45/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 21:24/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 05:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:45/eli-c
Chromium, Hexavalent	0.008	mg/L		0.005		1	A3500-Cr B	02/11/08 16:18/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 05:45/eli-c
Iron	0.34	mg/L		0.03		1	E200.7	02/27/08 21:24/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 05:45/eli-c
Manganese	0.37	mg/L		0.01		1	E200.8	02/21/08 05:45/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 05:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 05:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 05:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 05:45/eli-c
Uranium	0.0023	mg/L	D	0.0005		1	E200.8	02/21/08 05:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 05:45/eli-c
Zinc	ND	mg/L		0.04		1	E200.8	02/21/08 21:17/eli-c
Calcium	181	mg/L		0.5		1	E200.7	02/27/08 21:24/eli-c
Magnesium	78.3	mg/L		0.5		1	E200.7	02/27/08 21:24/eli-c
Potassium	16.1	mg/L		0.5		1	E200.7	02/27/08 21:24/eli-c
Silica	11.0	mg/L		0.1		1	E200.7	02/27/08 21:24/eli-c
Sodium	789	mg/L	D	5		10	E200.7	02/27/08 19:26/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-001
Client Sample ID: DewBurd Sub08

Report Date: 04/30/08
Collection Date: 02/10/08 15:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	02/19/08 12:03/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 10:14/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	02/19/08 17:19/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	ND	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.2	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	12.2	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	3.3	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	13.9	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	7.2	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.4	pCi/L		0.2		1	E903.0	03/04/08 16:55/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/04/08 16:55/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/22/08 14:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	6.26					1	A1030 E	04/15/08 00:00/lkl
Anions	43.5	meq/L				1	A1030 E	04/15/08 00:00/lkl
Cations	49.3	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	3020	mg/L				1	A1030 E	04/15/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.12					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-002
Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
Collection Date: 02/10/08 16:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	02/21/08 16:33/sn
Calcium	534	mg/L	D	1		10	E200.7	02/27/08 19:00/eli-c
Chloride	10	mg/L		1		1	E300.0	02/12/08 20:23/sn
Fluoride	7.4	mg/L		0.1		1	E300.0	02/12/08 20:23/sn
Magnesium	878	mg/L		0.5		10	E200.7	02/27/08 19:00/eli-c
Nitrogen, Ammonia as N	4.5	mg/L	D	0.1		10	A4500-NH3 G	02/11/08 18:16/sn
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	02/12/08 20:23/sn
Potassium	35	mg/L		1		1	E200.7	02/27/08 21:18/eli-c
Silica	37.2	mg/L		0.5		1	E200.7	02/27/08 21:18/eli-c
Sodium	113	mg/L	D	0.8		1	E200.7	02/27/08 21:18/eli-c
Sulfate	7330	mg/L	D	7		100	E300.0	02/14/08 17:14/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7640	umhos/cm		5.0		1	A2510 B	02/16/08 15:27/jmh
pH	3.19	s.u.		0.01		1	A4500-H B	02/16/08 15:00/jmh
Sodium Adsorption Ratio (SAR)	0.70	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	14	mg/L		5		1	D3977	02/20/08 16:28/jmh
Solids, Total Dissolved TDS @ 180 C	6800	mg/L		5		1	A2540 C	02/11/08 14:58/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	02/15/08 11:01/jmh
METALS - DISSOLVED								
Aluminum	162	mg/L		0.1		10	E200.7	02/27/08 19:00/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:18/eli-c
Cadmium	0.036	mg/L		0.005		1	E200.8	02/21/08 21:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 21:32/eli-c
Copper	0.13	mg/L		0.01		1	E200.8	02/21/08 21:32/eli-c
Iron	7.35	mg/L		0.03		1	E200.7	02/27/08 21:18/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Manganese	299	mg/L		0.01		10	E200.7	02/27/08 19:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 21:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-002
Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
Collection Date: 02/10/08 16:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	6.45	mg/L		0.05		1	E200.8	02/21/08 21:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 17:51/eli-c
Thorium 232	0.013	mg/L		0.005		1	E200.8	02/21/08 21:32/eli-c
Uranium	7.84	mg/L		0.0003		1	E200.8	02/21/08 21:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Zinc	6.58	mg/L		0.01		1	E200.7	02/27/08 21:18/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 23:31/eli-c
Uranium	0.0019	mg/L		0.0003		1	E200.8	02/21/08 23:31/eli-c
METALS - TOTAL								
Aluminum	166	mg/L		0.1		10	E200.8	02/21/08 21:24/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Boron	ND	mg/L		0.1		1	E200.7	02/27/08 21:28/eli-c
Cadmium	0.031	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 05:53/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	02/11/08 16:18/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	0.13	mg/L		0.01		1	E200.8	02/21/08 05:53/eli-c
Iron	8.22	mg/L		0.03		1	E200.7	02/27/08 21:28/eli-c
Lead	0.001	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Manganese	317	mg/L		0.01		10	E200.7	02/27/08 19:29/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 05:53/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Nickel	6.14	mg/L		0.05		1	E200.8	02/21/08 05:53/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Thorium 232	0.013	mg/L		0.005		1	E200.8	02/21/08 05:53/eli-c
Uranium	6.73	mg/L	D	0.0005		1	E200.8	02/21/08 05:53/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 05:53/eli-c
Zinc	7.22	mg/L	D	0.02		10	E200.8	02/21/08 21:24/eli-c
Calcium	571	mg/L	D	0.8		10	E200.7	02/27/08 19:29/eli-c
Magnesium	930	mg/L	D	0.8		10	E200.7	02/27/08 19:29/eli-c
Potassium	37.1	mg/L		0.5		1	E200.7	02/27/08 21:28/eli-c
Silica	41.5	mg/L		0.1		1	E200.7	02/27/08 21:28/eli-c
Sodium	115	mg/L		0.5		1	E200.7	02/27/08 21:28/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-002
Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
Collection Date: 02/10/08 16:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.017	mg/L		0.001		1	A3114 B	02/19/08 12:05/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 10:16/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.016	mg/L		0.001		1	A3114 B	02/19/08 17:21/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:33/eli-c
Selenium-VI	0.016	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	2.2	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	25.2	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	02/22/08 14:15/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	03/03/08 11:48/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.0	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	02/25/08 13:00/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8750	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	43.6	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	3600	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	45.5	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	675	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	192	pCi/L				1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.8	pCi/L		0.2		1	E903.0	03/04/08 18:25/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/04/08 18:25/eli-c
Thorium 230	31.1	pCi/L		0.2		1	E907.0	02/29/08 11:45/eli-c
Thorium 230 precision (±)	0.9	pCi/L				1	E907.0	02/29/08 11:45/eli-c
DATA QUALITY								
A/C Balance (± 5)	-2.74					1	A1030 E	04/15/08 00:00/lkl
Anions	154	meq/L				1	A1030 E	04/15/08 00:00/lkl
Cations	145	meq/L				1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-002
Client Sample ID: DewBurd Sub06

Report Date: 04/30/08
Collection Date: 02/10/08 16:10
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Solids, Total Dissolved Calculated	8910	mg/L				1	A1030 E	04/15/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.770					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-003
Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
Collection Date: 02/10/08 17:00
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/11/08 13:40/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	90	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Bicarbonate as HCO3	110	mg/L		5		1	A2320 B	02/21/08 16:36/sn
Calcium	538	mg/L	D	1		10	E200.7	02/27/08 19:23/eli-c
Chloride	24	mg/L		1		5	E300.0	02/14/08 18:00/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/12/08 20:54/sn
Magnesium	198	mg/L		0.5		1	E200.7	02/27/08 21:21/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	02/11/08 18:17/sn
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	02/12/08 20:54/sn
Potassium	23	mg/L		1		1	E200.7	02/27/08 21:21/eli-c
Silica	2.8	mg/L		0.5		1	E200.7	02/27/08 21:21/eli-c
Sodium	169	mg/L	D	0.8		1	E200.7	02/27/08 21:21/eli-c
Sulfate	2500	mg/L	D	7		100	E300.0	02/14/08 17:45/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3800	umhos/cm		5.0		1	A2510 B	02/16/08 15:28/jmh
pH	7.81	s.u.		0.01		1	A4500-H B	02/16/08 15:02/jmh
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	02/20/08 16:29/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	02/11/08 15:00/jmh
Solids, Total Suspended TSS @ 105 C	10	mg/L		5		1	A2540 D	02/15/08 11:02/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/27/08 21:21/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 22:20/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 22:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
Iron	0.07	mg/L		0.03		1	E200.7	02/27/08 21:21/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 22:20/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-003
Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
Collection Date: 02/10/08 17:00
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 22:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 18:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 22:20/eli-c
Uranium	0.177	mg/L		0.0003		1	E200.8	02/22/08 18:11/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 22:20/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/21/08 22:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 23:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 23:38/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 21:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Boron	0.5	mg/L		0.1		1	E200.7	02/27/08 21:31/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 06:00/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/11/08 16:09/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 06:00/eli-c
Iron	0.22	mg/L		0.03		1	E200.7	02/27/08 21:31/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	02/21/08 06:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/21/08 06:00/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 06:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 06:00/eli-c
Uranium	0.168	mg/L	D	0.0005		1	E200.8	02/21/08 06:00/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 06:00/eli-c
Zinc	ND	mg/L		0.02		1	E200.8	02/21/08 21:32/eli-c
Calcium	579	mg/L	D	0.8		10	E200.7	02/27/08 19:33/eli-c
Magnesium	201	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c
Potassium	23.6	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c
Silica	2.9	mg/L		0.1		1	E200.7	02/27/08 21:31/eli-c
Sodium	175	mg/L		0.5		1	E200.7	02/27/08 21:31/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-003
Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
Collection Date: 02/10/08 17:00
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	02/19/08 12:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 10:18/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	02/19/08 17:23/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:35/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.4	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0	02/22/08 14:15/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/03/08 11:48/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 14:45/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	131	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	5.3	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	81.5	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	8.4	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.6	pCi/L		0.2		1	E903.0	03/04/08 19:56/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/04/08 19:56/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	02/22/08 14:15/eli-c
DATA QUALITY								
A/C Balance (± 5)	-3.33					1	A1030 E	04/15/08 00:00/lkl
Anions	54.6	meq/L				1	A1030 E	04/15/08 00:00/lkl
Cations	51.1	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	3510	mg/L				1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020083-003
Client Sample ID: DewBurd Sub02

Report Date: 04/30/08
Collection Date: 02/10/08 17:00
Date Received: 02/11/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
TDS Balance (0.80 - 1.20)	0.830					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080221A-ALK-SEL-W	
Sample ID: MBLK1_080221A	Method Blank				Run: PH_COND1-R_080221A			02/21/08 16:26	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_080221A	Laboratory Control Sample				Run: PH_COND1-R_080221A			02/21/08 16:28	
Alkalinity, Total as CaCO3	1010	mg/L	5.0	101	90	110			
Sample ID: R08020143-002BMS	Sample Matrix Spike				Run: PH_COND1-R_080221A			02/21/08 16:57	
Alkalinity, Total as CaCO3	380	mg/L	5.0	96	80	120			
Sample ID: R08020143-002BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080221A			02/21/08 17:00	
Alkalinity, Total as CaCO3	380	mg/L	5.0	96	80	120	0.0	20	
Method: A2510 B								Batch: 080216_1_COND-PROBE-W	
Sample ID: LCS1-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:21	
Conductivity @ 25 C	154	umhos/cm	5.0	103	90	110			
Sample ID: LCS2-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:21	
Conductivity @ 25 C	5060	umhos/cm	5.0	101	90	110			
Sample ID: LCS_COND-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:22	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_080216	Method Blank				Run: PH_COND2-R_080216A			02/16/08 15:22	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 080211A-SLDS-TDS-W	
Sample ID: MBLK1_080211A	Method Blank				Run: BAL-4-R_080211A			02/11/08 14:08	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080211A	Laboratory Control Sample				Run: BAL-4-R_080211A			02/11/08 14:09	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	104	90	110			
Sample ID: R08020065-001AMS	Sample Matrix Spike				Run: BAL-4-R_080211A			02/11/08 14:47	
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	101	80	120			
Sample ID: R08020065-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080211A			02/11/08 14:48	
Solids, Total Dissolved TDS @ 180 C	1000	mg/L	5.0	112	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080215A-SLDS-TSS-W	
Sample ID: MBLK1_080215A	Method Blank				Run: BAL-4-R_080215A			02/15/08 10:56	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080215A	Laboratory Control Sample				Run: BAL-4-R_080215A			02/15/08 10:57	
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	108	85	115			
Sample ID: R08020083-001CDUP	Sample Duplicate				Run: BAL-4-R_080215A			02/15/08 11:00	
Solids, Total Suspended TSS @ 105 C	15	mg/L	5.0				6.9	20	
Method: A3114 B								Batch: C_R97081	
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97081			02/19/08 12:26	
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97081			02/19/08 12:26	
Selenium-VI	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B								Batch: C_R97115	
Sample ID: C08020551-001HMS	Sample Matrix Spike				Run: SUB-C97115			02/19/08 17:37	
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97115			02/19/08 17:37	
Selenium-VI	0.048	mg/L	0.0010	96	85	115	0.7	10	
Method: A3114 B								Batch: C_SE3114-021908D	
Sample ID: MBLK	Method Blank				Run: SUB-C97114			02/19/08 16:21	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97114			02/19/08 16:37	
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020551-001HMS	Sample Matrix Spike				Run: SUB-C97114			02/19/08 17:26	
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97114			02/19/08 17:28	
Selenium	0.049	mg/L	0.0010	98	85	115	2.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080219	
Sample ID: MBLK	Method Blank				Run: SUB-C97079			02/19/08 11:44	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97079			02/19/08 11:47	
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97079			02/19/08 12:10	
Selenium	0.048	mg/L	0.0010	96	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97079			02/19/08 12:12	
Selenium	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B								Batch: C_SEIV3114-021908C	
Sample ID: MBLK	Method Blank				Run: SUB-C97108			02/19/08 15:22	
Selenium-IV	0.0003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97108			02/19/08 15:24	
Selenium-IV	0.052	mg/L	0.0010	104	90	110			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97108			02/19/08 15:39	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	1.4	10	
Sample ID: R08020083-001H	Sample Matrix Spike				Run: SUB-C97108			02/19/08 15:41	
Selenium-IV	0.048	mg/L	0.0010	96	85	115			
Method: A3114 B								Batch: C_SEIV3114-080219	
Sample ID: MBLK	Method Blank				Run: SUB-C97072			02/19/08 09:27	
Selenium-IV	0.003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97072			02/19/08 09:43	
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97072			02/19/08 10:20	
Selenium-IV	0.089	mg/L	0.0010	177	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97072			02/19/08 10:22	
Selenium-IV	0.085	mg/L	0.0010	169	85	115	5.0	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080211A-CR-HEX-W	
Sample ID: MBLK1_080211A	Method Blank				Run: SPEC1_080211A			02/11/08 16:07	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS1_080211A	Laboratory Control Sample				Run: SPEC1_080211A			02/11/08 16:08	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Sample ID: R08020083-001EMS	Sample Matrix Spike				Run: SPEC1_080211A			02/11/08 16:08	
Chromium, Hexavalent	0.22	mg/L	0.0050	103	80	120			
Sample ID: R08020083-002EMS	Sample Matrix Spike				Run: SPEC1_080211A			02/11/08 16:18	
Chromium, Hexavalent	0.36	mg/L	0.010	90	80	120			
Sample ID: R08020083-003EMS	Sample Matrix Spike				Run: SPEC1_080211A			02/11/08 16:09	
Chromium, Hexavalent	0.20	mg/L	0.0050	102	80	120			
Method: A4500-H B								Batch: 080216_1_PH-W	
Sample ID: LCS_pH-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 14:56	
pH	6.93	s.u.	0.010	101	98.55	101.45			
Method: A4500-NH3 G								Batch: A2008-02-11_2_NH3_01	
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080211A			02/11/08 15:32	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	102	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080211A			02/11/08 15:33	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	90	110			
Sample ID: MBLK-5	Method Blank				Run: TECHAA2-R_080211A			02/11/08 15:34	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: R08020074-002CMS	Sample Matrix Spike				Run: TECHAA2-R_080211A			02/11/08 17:47	
Nitrogen, Ammonia as N	0.69	mg/L	0.10	94	80	120			
Method: A9222 D								Batch: 080211-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080211A			02/11/08 13:40	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97399				02/26/08 12:13
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.02	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97440				02/27/08 15:39
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Manganese	0.576	mg/L	0.010	115	85	115			
Calcium	52.3	mg/L	0.50	105	85	115			
Magnesium	50.1	mg/L	0.50	100	85	115			
Potassium	51.4	mg/L	0.50	103	85	115			
Silica	0.591	mg/L	0.10	118	85	115			S
Sodium	52.2	mg/L	0.53	104	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike				Run: SUB-C97440				02/27/08 18:27
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Manganese	10.0	mg/L	0.010	99	70	130			
Calcium	929	mg/L	0.79	81	70	130			
Magnesium	555	mg/L	0.80	87	70	130			
Potassium	1160	mg/L	0.50	96	70	130			
Silica	26.4	mg/L	0.11	98	70	130			
Sodium	654	mg/L	5.3	89	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440				02/27/08 18:30
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Manganese	10.1	mg/L	0.010	100	70	130	1.5	20	
Calcium	954	mg/L	0.79	86	70	130	2.7	20	
Magnesium	572	mg/L	0.80	90	70	130	3.0	20	
Potassium	1160	mg/L	0.50	97	70	130	0.1	20	
Silica	26.3	mg/L	0.11	97	70	130	0.3	20	
Sodium	654	mg/L	5.3	89	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R97440
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C97440				02/27/08 13:40
Silica	2.0	mg/L	0.10	100	85	125			
Aluminum	2.0	mg/L	0.10	98	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Manganese	2.0	mg/L	0.010	102	85	125			
Zinc	2.0	mg/L	0.010	98	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C97440				02/27/08 13:43
Calcium	24	mg/L	0.50	96	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank				Run: SUB-C97440				02/27/08 13:50
Silica	ND	mg/L	0.10						
Aluminum	ND	mg/L	0.10						
Boron	0.015	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Manganese	ND	mg/L	0.010						
Potassium	0.045	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Zinc	ND	mg/L	0.010						
Sample ID: C08020547-001AMS	Sample Matrix Spike				Run: SUB-C97440				02/27/08 17:35
Aluminum	9.63	mg/L	0.10	96	70	130			
Boron	10.2	mg/L	0.10	100	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Manganese	10.4	mg/L	0.010	103	70	130			
Zinc	9.93	mg/L	0.022	99	70	130			
Calcium	914	mg/L	1.0	84	70	130			
Magnesium	558	mg/L	0.50	89	70	130			
Potassium	1140	mg/L	0.50	94	70	130			
Silica	23.1	mg/L	0.20	93	70	130			
Sodium	638	mg/L	7.6	89	70	130			
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440				02/27/08 17:38
Aluminum	9.66	mg/L	0.10	97	70	130	0.3	20	
Boron	10.3	mg/L	0.10	101	70	130	1.3	20	
Iron	9.72	mg/L	0.046	97	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R97440	
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440			02/27/08 17:38	
Manganese	10.2	mg/L	0.010	101	70	130	2.4	20	
Zinc	9.88	mg/L	0.022	99	70	130	0.5	20	
Calcium	902	mg/L	1.0	81	70	130	1.3	20	
Magnesium	552	mg/L	0.50	88	70	130	1.1	20	
Potassium	1130	mg/L	0.50	94	70	130	0.4	20	
Silica	22.9	mg/L	0.20	92	70	130	0.6	20	
Sodium	627	mg/L	7.6	87	70	130	1.7	20	
Method: E200.8								Batch: C_17792	
Sample ID: MB-17792	Method Blank				Run: SUB-C97226			02/21/08 21:54	
Thorium 232	8E-05	mg/L	1E-06						
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample				Run: SUB-C97226			02/21/08 22:01	
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike				Run: SUB-C97226			02/21/08 23:45	
Thorium 232	0.0251	mg/L	0.0010	100	70	130			
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate				Run: SUB-C97226			02/21/08 23:53	
Thorium 232	0.0247	mg/L	0.0010	99	70	130	1.5	20	
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_17796	
Sample ID: R08020083-003B	Post Digestion Spike				Run: SUB-C97150			02/21/08 06:08	
Aluminum	0.276	mg/L	0.10	110	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Thorium 232	0.249	mg/L	0.0010	100	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Vanadium	0.271	mg/L	0.10	108	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate				Run: SUB-C97150			02/21/08 06:16	
Aluminum	0.361	mg/L	0.10	144	70	130	26	20	SR
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Thorium 232	0.252	mg/L	0.0010	101	70	130	1.2	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Vanadium	0.271	mg/L	0.10	108	70	130	0.1	20	
Sample ID: MB-17796	Method Blank				Run: SUB-C97150			02/21/08 02:45	
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	0.001	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97150				02/21/08 02:45
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0001						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	0.0004	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-17796	Laboratory Control Sample				Run: SUB-C97150				02/21/08 02:52
Aluminum	0.0183	mg/L	0.10	91	80	120			
Arsenic	0.0201	mg/L	0.0010	100	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Cadmium	0.0196	mg/L	0.010	98	80	120			
Chromium	0.0193	mg/L	0.050	97	80	120			
Copper	0.0199	mg/L	0.010	100	80	120			
Lead	0.0196	mg/L	0.050	98	80	120			
Manganese	0.0195	mg/L	0.010	97	80	120			
Molybdenum	0.0202	mg/L	0.10	95	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Silver	0.0214	mg/L	0.010	107	80	120			
Thorium 232	0.0184	mg/L	0.0010	91	80	120			
Uranium	0.0186	mg/L	0.00030	91	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97150				02/21/08 03:00
Aluminum	0.0459	mg/L	0.10	92	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			
Nickel	0.0501	mg/L	0.050	100	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Vanadium	0.0497	mg/L	0.10	99	85	115			
Sample ID: MB-17796	Method Blank				Run: SUB-C97226				02/21/08 20:25
Aluminum	0.2	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97226				02/21/08 20:25
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Zinc	0.1	mg/L	0.002						
Sample ID: LCS1-17796	Laboratory Control Sample				Run: SUB-C97226				02/21/08 20:32
Aluminum	0.0217	mg/L	0.10	108	80	120			
Arsenic	0.0197	mg/L	0.0010	99	80	120			
Barium	0.0206	mg/L	0.10	103	80	120			
Cadmium	0.0209	mg/L	0.010	104	80	120			
Chromium	0.0187	mg/L	0.050	93	80	120			
Copper	0.0197	mg/L	0.010	98	80	120			
Lead	0.0204	mg/L	0.050	102	80	120			
Manganese	0.0192	mg/L	0.010	96	80	120			
Molybdenum	0.0216	mg/L	0.10	108	80	120			
Nickel	0.0194	mg/L	0.050	97	80	120			
Thorium 232	0.0198	mg/L	0.0010	99	80	120			
Uranium	0.0197	mg/L	0.00030	98	80	120			
Vanadium	0.0191	mg/L	0.10	95	80	120			
Zinc	0.0219	mg/L	0.010	100	80	120			
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97226				02/21/08 20:39
Aluminum	0.0536	mg/L	0.10	107	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Thorium 232	0.0509	mg/L	0.0010	102	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_17796	
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97226			02/21/08 20:39	
Vanadium	0.0510	mg/L	0.10	102	85	115			
Zinc	0.0530	mg/L	0.010	102	85	115			
Sample ID: R08020083-003B	Post Digestion Spike				Run: SUB-C97226			02/21/08 21:39	
Aluminum	0.299	mg/L	0.10	115	70	130			
Arsenic	0.265	mg/L	0.0010	106	70	130			
Barium	0.273	mg/L	0.10	103	70	130			
Cadmium	0.256	mg/L	0.010	102	70	130			
Copper	0.254	mg/L	0.010	99	70	130			
Lead	0.264	mg/L	0.050	106	70	130			
Nickel	0.270	mg/L	0.050	100	70	130			
Silver	0.0875	mg/L	0.010	88	70	130			
Thorium 232	0.267	mg/L	0.0010	107	70	130			
Uranium	0.439	mg/L	0.00030	106	70	130			
Zinc	0.264	mg/L	0.020	100	70	130			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08020083-003B	Post Digestion Spike Duplicate				Run: SUB-C97226			02/21/08 21:46	
Aluminum	0.395	mg/L	0.10	153	70	130	28	20	SR
Arsenic	0.268	mg/L	0.0010	107	70	130	1.1	20	
Barium	0.273	mg/L	0.10	103	70	130	0.1	20	
Cadmium	0.263	mg/L	0.010	105	70	130	2.7	20	
Copper	0.254	mg/L	0.010	100	70	130	0.1	20	
Lead	0.265	mg/L	0.050	106	70	130	0.2	20	
Nickel	0.265	mg/L	0.050	98	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	20	20	R
Thorium 232	0.266	mg/L	0.0010	106	70	130	0.6	20	
Uranium	0.431	mg/L	0.00030	103	70	130	2.0	20	
Zinc	0.261	mg/L	0.020	99	70	130	1.3	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R97199
Sample ID: CCB	Method Blank				Run: SUB-C97199				02/21/08 13:16
Aluminum	0.0003	mg/L	0.0001						
Arsenic	ND	mg/L	0.0002						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	8E-05						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	6E-05						
Lead	ND	mg/L	3E-05						
Manganese	ND	mg/L	4E-05						
Mercury	ND	mg/L	4E-05						
Molybdenum	ND	mg/L							
Nickel	ND	mg/L	5E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	6E-05						
Zinc	ND	mg/L	0.0001						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97199				02/21/08 13:36
Aluminum	0.0520	mg/L	0.0010	103	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0546	mg/L	0.0010	109	85	115			
Cadmium	0.0540	mg/L	0.0010	108	85	115			
Chromium	0.0523	mg/L	0.0010	105	85	115			
Copper	0.0526	mg/L	0.0010	105	85	115			
Lead	0.0519	mg/L	0.0010	104	85	115			
Manganese	0.0511	mg/L	0.0010	102	85	115			
Mercury	0.00510	mg/L	0.0010	102	85	115			
Molybdenum	0.0551	mg/L	0.0010	110	85	115			
Nickel	0.0517	mg/L	0.0010	103	85	115			
Thorium 232	0.0519	mg/L	0.0010	104	85	115			
Uranium	0.0513	mg/L	0.00030	103	85	115			
Vanadium	0.0526	mg/L	0.0010	105	85	115			
Zinc	0.0565	mg/L	0.0010	113	85	115			
Sample ID: R08020083-002A	Sample Matrix Spike				Run: SUB-C97199				02/21/08 21:39
Aluminum	102	mg/L	0.10		70	130			A
Arsenic	0.0550	mg/L	0.0010	101	70	130			
Barium	0.0567	mg/L	0.10	106	70	130			
Cadmium	0.0822	mg/L	0.010	91	70	130			
Chromium	0.0406	mg/L	0.050	55	70	130			S
Copper	0.178	mg/L	0.010	90	70	130			
Lead	0.0528	mg/L	0.050	103	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R97199
Sample ID: R08020083-002A	Sample Matrix Spike				Run: SUB-C97199				02/21/08 21:39
Manganese	162	mg/L	0.010		70	130			A
Mercury	0.00485	mg/L	0.0010	97	70	130			
Molybdenum	0.0530	mg/L	0.10	106	70	130			
Nickel	6.31	mg/L	0.050		70	130			A
Thorium 232	0.0665	mg/L	0.0010	107	70	130			
Uranium	7.81	mg/L	0.00030		70	130			A
Vanadium	0.0289	mg/L	0.10	57	70	130			S
Zinc	6.36	mg/L	0.010		70	130			A
Method: E200.8									Batch: C_R97313
Sample ID: LRB	Method Blank				Run: SUB-C97313				02/22/08 14:40
Silver	0.0005	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97313				02/22/08 16:36
Silver	0.0196	mg/L	0.0010	95	85	115			
Sample ID: R08020083-002A	Post Digestion Spike				Run: SUB-C97313				02/22/08 17:57
Silver	0.0166	mg/L	0.010	83	70	130			
Sample ID: R08020083-002A	Post Digestion Spike Duplicate				Run: SUB-C97313				02/22/08 18:04
Silver	0.0149	mg/L	0.010	74	70	130	11	20	
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97313				02/22/08 14:46
Silver	0.0153	mg/L	0.0010	74	85	115			S

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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R33470
Sample ID: LFB0802125708-1	Laboratory Fortified Blank				Run: DIONEX_080212A				02/12/08 18:04
Chloride	4.21	mg/L	0.50	94	90	110			
Fluoride	1.76	mg/L	0.10	98	90	110			
Nitrogen, Nitrate as N	2.22	mg/L	0.10	99	90	110			
Sample ID: LFB0802125708-1	Laboratory Fortified Blank				Run: DIONEX_080212A				02/12/08 18:20
Chloride	4.25	mg/L	0.50	94	90	110			
Fluoride	1.70	mg/L	0.10	94	90	110			
Nitrogen, Nitrate as N	2.24	mg/L	0.10	100	90	110			
Sample ID: R08020082-001AMS	Sample Matrix Spike				Run: DIONEX_080212A				02/12/08 18:50
Chloride	284	mg/L	5.4	71	80	120			S
Fluoride	89.3	mg/L	0.56	89	80	120			
Nitrogen, Nitrate as N	104	mg/L	1.3	83	80	120			
Sample ID: R08020082-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080212A				02/12/08 19:06
Chloride	292	mg/L	5.4	74	80	120	3.0	10	S
Fluoride	88.8	mg/L	0.56	89	80	120	0.6	10	
Nitrogen, Nitrate as N	101	mg/L	1.3	81	80	120	2.6	10	
Sample ID: R08020094-001AMS	Sample Matrix Spike				Run: DIONEX_080212A				02/12/08 21:55
Fluoride	2.6	mg/L	0.10	93	80	120			
Sample ID: R08020094-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080212A				02/12/08 22:11
Fluoride	2.5	mg/L	0.10	92	80	120	0.4	10	
Method: E300.0									Batch: R33510
Sample ID: LFB0802130124-1	Laboratory Fortified Blank				Run: DIONEX_080214A				02/14/08 15:42
Chloride	5.60	mg/L	0.50	112	90	110			S
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank				Run: DIONEX_080214A				02/14/08 15:57
Chloride	5.29	mg/L	0.50	106	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0398	
Sample ID: MB-GrAB-0398	Method Blank				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Beta	89	pCi/L	2.0	94	70	130			
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	340	pCi/L	1.0	117	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	370	pCi/L	1.0	127	70	130	8.0	11.9	
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	100	pCi/L	2.0	87	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	110	pCi/L	2.0	92	70	130	5.4	15.5	
Method: E901.1								Batch: C_R97137	
Sample ID: LCS-R97137	Laboratory Control Sample				Run: SUB-C97137			02/19/08 08:48	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2633
Sample ID: R08020083-003K	Sample Matrix Spike				Run: SUB-C97303				02/25/08 14:45
Radium 226	120	pCi/L	0.20	95	70	130			
Sample ID: R08020083-003K	Sample Matrix Spike Duplicate				Run: SUB-C97303				02/25/08 14:45
Radium 226	120	pCi/L	0.20	92	70	130	2.6	24.9	
Sample ID: LCS-17792	Laboratory Control Sample				Run: SUB-C97303				02/25/08 14:45
Radium 226	12	pCi/L	0.20	95	70	130			
Sample ID: MB-17792	Method Blank				Run: SUB-C97303				02/25/08 14:45
Radium 226	ND	pCi/L	0.2						
Method: E903.0									Batch: C_RA226-2640
Sample ID: C08020610-001AMS	Sample Matrix Spike				Run: SUB-C97739				03/05/08 06:29
Radium 226	15	pCi/L	0.30	92	70	130			
Sample ID: C08020610-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97739				03/05/08 07:59
Radium 226	15	pCi/L	0.30	92	70	130	0.5	23	
Sample ID: MB-RA226-2640	Method Blank				Run: SUB-C97739				03/05/08 15:31
Radium 226	ND	pCi/L							
Sample ID: LCS-RA226-2640	Laboratory Control Sample				Run: SUB-C97739				03/05/08 17:01
Radium 226	5.2	pCi/L	0.10	83	70	130			
Method: E903.0									Batch: C_RA226-2642
Sample ID: C08020706-001AMS	Sample Matrix Spike				Run: SUB-C97642				03/03/08 11:48
Radium 226	7.2	pCi/L	0.20	89	70	130			
Sample ID: C08020706-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97642				03/03/08 11:48
Radium 226	7.4	pCi/L	0.20	92	70	130	3.2	23.5	
Sample ID: MB-RA226-2642	Method Blank				Run: SUB-C97642				03/03/08 13:34
Radium 226	0.01	pCi/L							
Sample ID: LCS-RA226-2642	Laboratory Control Sample				Run: SUB-C97642				03/03/08 16:21
Radium 226	5.6	pCi/L	0.20	88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 04/30/08
Work Order: R08020083

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: C_17792	
Sample ID: LCS-17792	Laboratory Control Sample				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	32.7	pCi/g-dry	0.10	67	70	130			S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792	Method Blank				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	ND	pCi/g-dry							
Sample ID: C08020475-002BDUP	Sample Duplicate				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	8.36	pCi/g-dry	0.10		70	130	9.9	30	
Sample ID: C08020475-002BDUP	Sample Duplicate				Run: SUB-C97814			02/21/08 16:15	
Thorium 230	9.67	pCi/g-dry	0.10		70	130	4.6	30	
Method: E907.0								Batch: C_R98194	
Sample ID: LCS-R98194	Laboratory Control Sample				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08020548-004HMS	Sample Matrix Spike				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	44.3	pCi/L	0.20	93	70	130			
Sample ID: C08020548-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C98194			02/22/08 14:15	
Thorium 230	42.4	pCi/L	0.20	89	70	130	4.4	30	
Sample ID: MB-R98194	Method Blank				Run: SUB-C98194			02/22/08 14:15	
Thorium 230		pCi/L							
Method: E907.0								Batch: C_R98195	
Sample ID: LCS-R98195	Laboratory Control Sample				Run: SUB-C98195			02/29/08 11:45	
Thorium 230	6.70	pCi/L	0.20	96	70	130			
Sample ID: C08020519-002CMS	Sample Matrix Spike				Run: SUB-C98195			02/29/08 11:45	
Thorium 230	14.9	pCi/L	0.20	93	70	130			
Sample ID: C08020519-002CMSD	Sample Matrix Spike Duplicate				Run: SUB-C98195			02/29/08 11:45	
Thorium 230	15.5	pCi/L	0.20	97	70	130	3.9	30	
Sample ID: MB-R98195	Method Blank				Run: SUB-C98195			02/29/08 11:45	
Thorium 230	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
RESPEC	Powertech Dewey Burdock	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
RESPEC	Cory Foreman		Cory Foreman Matt Stoltenberg
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
RESPEC			

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: SW

Shipped by:

Cooler ID(s):

Receipt Temp 2.8 °C

On Ice: (Yes) No

Custody Seal Y N

Intact Y N

Signature Match Y N

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)	As per Quote	No lead 210	No Polonium 210	SEE ATTACHED	Normal Turnaround (TAT)		LABORATORY USE ONLY
1 DpwBurd Sub 08	2/10/08	15:10	W						Sample Bottle Set 13	B0802083-001
2 DpwBurd Sub 06	2/10/08	16:10	W						Bottle Set 7	002
3 DpwBurd Sub 02	2/10/08	17:00	W						Bottle Set 1	003
4										
5										
6										
7										
8										
9										
10										

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Matt Stoltenberg	2-11-08	Matt Stoltenberg	Steve Froiland	2-11-08 9:00	Steve Froiland
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

May 08, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08020131 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 2/12/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08020131-001	DewBurd CHR05	02/12/08 9:20	02/12/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08020131-002	DewBurd Sub24	02/12/08 9:45	02/12/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Linda Fan

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-001
Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
Collection Date: 02/12/08 09:20
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/13/08 09:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	246	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Bicarbonate as HCO3	300	mg/L		5		1	A2320 B	02/21/08 16:47/sn
Calcium	496	mg/L	D	1		10	E200.7	02/27/08 17:31/eli-c
Chloride	250	mg/L	D	10		100	E300.0	02/15/08 00:26/sn
Fluoride	0.5	mg/L		0.1		1	E300.0	02/15/08 00:57/sn
Magnesium	113	mg/L		0.5		10	E200.7	02/27/08 17:31/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	02/19/08 12:31/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	02/15/08 00:57/sn
Potassium	5	mg/L		1		1	E200.7	02/27/08 20:15/eli-c
Silica	14.0	mg/L		0.5		1	E200.7	02/27/08 20:15/eli-c
Sodium	200	mg/L	D	0.8		1	E200.7	02/27/08 20:15/eli-c
Sulfate	1730	mg/L	D	7		100	E300.0	02/15/08 00:26/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3320	umhos/cm		5.0		1	A2510 B	02/16/08 15:42/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	02/16/08 15:06/jmh
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	02/20/08 16:29/jmh
Solids, Total Dissolved TDS @ 180 C	2900	mg/L		5		1	A2540 C	02/19/08 14:28/jmh
Solids, Total Suspended TSS @ 105 C	9	mg/L		5		1	A2540 D	02/15/08 11:07/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	02/27/08 20:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/22/08 19:26/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
Iron	ND	mg/L		0.03		1	E200.7	02/27/08 20:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/22/08 19:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-001
Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
Collection Date: 02/12/08 09:20
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/22/08 19:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/22/08 19:26/eli-c
Uranium	0.0143	mg/L		0.0003		1	E200.8	02/22/08 19:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/22/08 19:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/22/08 19:26/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 22:16/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:16/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 04:37/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Boron	0.2	mg/L		0.1		1	E200.7	02/27/08 20:22/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 04:37/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/12/08 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 04:37/eli-c
Iron	0.10	mg/L		0.03		1	E200.7	02/27/08 20:22/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 04:37/eli-c
Manganese	0.12	mg/L		0.01		1	E200.8	02/21/08 04:37/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 04:37/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 04:37/eli-c
Uranium	0.0136	mg/L		0.0003		1	E200.8	02/21/08 04:37/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 04:37/eli-c
Zinc	ND	mg/L		0.01		1	E200.7	02/27/08 20:22/eli-c
Calcium	526	mg/L	D	0.8		10	E200.7	02/27/08 18:24/eli-c
Magnesium	115	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c
Potassium	5.1	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c
Silica	16.6	mg/L		0.1		10	E200.7	02/27/08 18:24/eli-c
Sodium	196	mg/L		0.5		1	E200.7	02/27/08 20:22/eli-c
METALS - DISSOLVED - SPECIATED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-001
Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
Collection Date: 02/12/08 09:20
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	02/19/08 11:51/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 09:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	02/19/08 17:15/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 15:26/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	ND	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	02/21/08 16:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	02/21/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.7	pCi/L		1.0		1	E900.0	02/28/08 02:16/eli-c
Gross Alpha precision (±)	3.4	pCi/L				1	E900.0	02/28/08 02:16/eli-c
Gross Beta	7.6	pCi/L		2.0		1	E900.0	02/28/08 02:16/eli-c
Gross Beta precision (±)	7.1	pCi/L				1	E900.0	02/28/08 02:16/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	ND	pCi/L		0.2		1	E903.0	03/03/08 16:45/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
Thorium 230 precision (±)	0.03	pCi/L				1	E907.0	02/22/08 14:15/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	03/25/08 08:49/eli-b
DATA QUALITY								
A/C Balance (± 5)	-5.77					1	A1030 E	04/15/08 00:00/lkl
Anions	48.1	meq/L				1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-001
Client Sample ID: DewBurd CHR05

Report Date: 05/08/08
Collection Date: 02/12/08 09:20
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Cations	42.9	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	2950	mg/L				1	A1030 E	04/15/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.00					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-002
Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
Collection Date: 02/12/08 09:45
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	02/13/08 09:20/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	88	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Bicarbonate as HCO3	107	mg/L		5		1	A2320 B	02/21/08 16:51/sn
Calcium	249	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Chloride	26	mg/L		1		5	E300.0	02/15/08 01:28/sn
Fluoride	0.4	mg/L		0.1		1	E300.0	02/15/08 01:43/sn
Magnesium	89.9	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	02/19/08 12:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	02/15/08 01:43/sn
Potassium	9	mg/L		1		1	E200.7	02/27/08 20:19/eli-c
Silica	9.6	mg/L		0.5		1	E200.7	02/27/08 20:19/eli-c
Sodium	791	mg/L	D	8		10	E200.7	02/27/08 17:48/eli-c
Sulfate	2480	mg/L	D	7		100	E300.0	02/15/08 01:12/sn
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4480	umhos/cm		5.0		1	A2510 B	02/16/08 15:42/jmh
pH	7.54	s.u.		0.01		1	A4500-H B	02/16/08 15:08/jmh
Sodium Adsorption Ratio (SAR)	11	unitless		0.10		1	Calculation	04/15/08 00:00/lkl
Solids, Suspended Sediment SSC @ 105 C	75	mg/L		5		1	D3977	02/20/08 16:30/jmh
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	02/19/08 14:29/jmh
Solids, Total Suspended TSS @ 105 C	17	mg/L		5		1	A2540 D	02/15/08 11:09/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Boron	0.7	mg/L		0.1		1	E200.7	02/27/08 20:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/22/08 19:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
Iron	0.07	mg/L		0.03		1	E200.7	02/27/08 20:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	02/22/08 19:32/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-002
Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
Collection Date: 02/12/08 09:45
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.05		1	E200.8	02/22/08 19:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/22/08 19:32/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	02/22/08 19:32/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/22/08 19:32/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	02/22/08 19:32/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	02/21/08 22:46/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	02/21/08 22:46/eli-c
METALS - TOTAL								
Aluminum	0.1	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	02/21/08 04:45/eli-c
Barium	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Boron	0.6	mg/L		0.1		1	E200.7	02/27/08 20:25/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	02/21/08 04:45/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	02/12/08 00:00/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	04/15/08 00:00/lkl
Copper	ND	mg/L		0.01		1	E200.8	02/21/08 04:45/eli-c
Iron	1.44	mg/L		0.03		1	E200.7	02/27/08 20:25/eli-c
Lead	ND	mg/L		0.001		1	E200.8	02/21/08 04:45/eli-c
Manganese	0.14	mg/L		0.01		1	E200.8	02/21/08 04:45/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	02/21/08 04:45/eli-c
Silver	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	02/21/08 04:45/eli-c
Uranium	ND	mg/L		0.0004		1	E200.8	02/21/08 04:45/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	02/21/08 04:45/eli-c
Zinc	0.02	mg/L		0.01		1	E200.7	02/27/08 20:25/eli-c
Calcium	249	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Magnesium	88.1	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Potassium	8.8	mg/L		0.5		1	E200.7	02/27/08 20:25/eli-c
Silica	10.6	mg/L		0.1		10	E200.7	02/27/08 18:40/eli-c
Sodium	767	mg/L	D	5		10	E200.7	02/27/08 18:40/eli-c
METALS - DISSOLVED - SPECIATED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-002
Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
Collection Date: 02/12/08 09:45
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	02/19/08 11:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	02/19/08 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 12:26/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	02/19/08 17:17/eli-c
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	02/19/08 15:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	02/19/08 17:37/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.8	pCi/L		0.2		1	E903.0	03/03/08 11:48/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/03/08 11:48/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	ND	pCi/L		0.2		1	E903.0	02/25/08 13:00/eli-c
Thorium 230	1.4	pCi/L		0.2		1	E907.0	03/06/08 16:15/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	03/06/08 16:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	10.2	pCi/L		1.0		1	E900.0	02/29/08 03:49/eli-c
Gross Alpha precision (±)	4.3	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Beta	9.3	pCi/L		2.0		1	E900.0	02/29/08 03:49/eli-c
Gross Beta precision (±)	9.5	pCi/L				1	E900.0	02/29/08 03:49/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	02/19/08 08:48/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	02/19/08 08:48/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.9	pCi/L		0.2		1	E903.0	03/03/08 18:16/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	03/03/08 18:16/eli-c
Thorium 230	ND	pCi/L		0.2		1	E907.0	02/22/08 14:15/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	03/25/08 08:52/eli-b
DATA QUALITY								
A/C Balance (± 5)	0.400					1	A1030 E	04/15/08 00:00/lkl
Anions	54.1	meq/L				1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08020131-002
Client Sample ID: DewBurd Sub24

Report Date: 05/08/08
Collection Date: 02/12/08 09:45
Date Received: 02/12/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
DATA QUALITY								
Cations	54.5	meq/L				1	A1030 E	04/15/08 00:00/lkl
Solids, Total Dissolved Calculated	3690	mg/L				1	A1030 E	04/15/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.03					1	A1030 E	04/15/08 00:00/lkl

Report Definitions: RL - Analyte reporting limit. QCL - Quality control limit. MCL - Maximum contaminant level. ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080221A-ALK-SEL-W	
Sample ID: MBLK1_080221A	Method Blank				Run: PH_COND1-R_080221A			02/21/08 16:26	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_080221A	Laboratory Control Sample				Run: PH_COND1-R_080221A			02/21/08 16:28	
Alkalinity, Total as CaCO3	1010	mg/L	5.0	101	90	110			
Sample ID: R08020143-002BMS	Sample Matrix Spike				Run: PH_COND1-R_080221A			02/21/08 16:57	
Alkalinity, Total as CaCO3	380	mg/L	5.0	96	80	120			
Sample ID: R08020143-002BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080221A			02/21/08 17:00	
Alkalinity, Total as CaCO3	380	mg/L	5.0	96	80	120	0.0	20	
Method: A2510 B								Batch: 080216_1_COND-PROBE-W	
Sample ID: LCS1-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:21	
Conductivity @ 25 C	154	umhos/cm	5.0	103	90	110			
Sample ID: LCS2-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:21	
Conductivity @ 25 C	5060	umhos/cm	5.0	101	90	110			
Sample ID: LCS_COND-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 15:22	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: MBLK-1_080216	Method Blank				Run: PH_COND2-R_080216A			02/16/08 15:22	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08020131-002CDUP	Sample Duplicate				Run: PH_COND2-R_080216A			02/16/08 15:44	
Conductivity @ 25 C	4510	umhos/cm	5.0				0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 080219A-SLDS-TDS-W	
Sample ID: MBLK1_080219A	Method Blank				Run: BAL-4-R_080219A			02/19/08 14:17	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080219A	Laboratory Control Sample				Run: BAL-4-R_080219A			02/19/08 14:18	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	99	90	110			
Sample ID: R08020130-001AMS	Sample Matrix Spike				Run: BAL-4-R_080219A			02/19/08 14:21	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	95	80	120			
Sample ID: R08020130-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080219A			02/19/08 14:23	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	89	80	120	0.9	10	
Sample ID: R08020180-001BMS	Sample Matrix Spike				Run: BAL-4-R_080219A			02/19/08 14:36	
Solids, Total Dissolved TDS @ 180 C	420	mg/L	5.0	97	80	120			
Sample ID: R08020180-001BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080219A			02/19/08 14:37	
Solids, Total Dissolved TDS @ 180 C	440	mg/L	5.0	106	80	120	4.2	10	
Method: A2540 D								Batch: 080215A-SLDS-TSS-W	
Sample ID: MBLK1_080215A	Method Blank				Run: BAL-4-R_080215A			02/15/08 10:56	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080215A	Laboratory Control Sample				Run: BAL-4-R_080215A			02/15/08 10:57	
Solids, Total Suspended TSS @ 105 C	220	mg/L	5.0	108	85	115			
Sample ID: R08020131-001CDUP	Sample Duplicate				Run: BAL-4-R_080215A			02/15/08 11:08	
Solids, Total Suspended TSS @ 105 C	8.0	mg/L	5.0				12	20	
Method: A3114 B								Batch: C_R97081	
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97081			02/19/08 12:26	
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97081			02/19/08 12:26	
Selenium-VI	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B								Batch: C_R97115	
Sample ID: C08020551-001HMS	Sample Matrix Spike				Run: SUB-C97115			02/19/08 17:37	
Selenium-VI	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97115			02/19/08 17:37	
Selenium-VI	0.048	mg/L	0.0010	96	85	115	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-021908D	
Sample ID: MBLK	Method Blank				Run: SUB-C97114			02/19/08 16:21	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97114			02/19/08 16:37	
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020551-001HMS	Sample Matrix Spike				Run: SUB-C97114			02/19/08 17:26	
Selenium	0.048	mg/L	0.0010	95	85	115			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97114			02/19/08 17:28	
Selenium	0.049	mg/L	0.0010	98	85	115	2.9	10	
Method: A3114 B								Batch: C_SE3114-080219	
Sample ID: MBLK	Method Blank				Run: SUB-C97079			02/19/08 11:44	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97079			02/19/08 11:47	
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97079			02/19/08 12:10	
Selenium	0.048	mg/L	0.0010	96	85	115			
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97079			02/19/08 12:12	
Selenium	0.050	mg/L	0.0010	99	85	115	3.9	10	
Method: A3114 B								Batch: C_SEIV3114-021908C	
Sample ID: MBLK	Method Blank				Run: SUB-C97108			02/19/08 15:22	
Selenium-IV	0.0003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97108			02/19/08 15:24	
Selenium-IV	0.052	mg/L	0.0010	104	90	110			
Sample ID: C08020551-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C97108			02/19/08 15:39	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	1.4	10	
Sample ID: R08020083-001H	Sample Matrix Spike				Run: SUB-C97108			02/19/08 15:41	
Selenium-IV	0.048	mg/L	0.0010	96	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV3114-080219	
Sample ID: MBLK	Method Blank				Run: SUB-C97072			02/19/08 09:27	
Selenium-IV	0.003	mg/L	6E-05						
Sample ID: 288-30-5	Laboratory Control Sample				Run: SUB-C97072			02/19/08 09:43	
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: C08020402-001EMS	Sample Matrix Spike				Run: SUB-C97072			02/19/08 10:20	
Selenium-IV	0.089	mg/L	0.0010	177	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: C08020402-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C97072			02/19/08 10:22	
Selenium-IV	0.085	mg/L	0.0010	169	85	115	5.0	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Method: A3500-Cr B								Batch: R33559	
Sample ID: MLBK_021208	Method Blank				Run: SPEC1_080212A			02/12/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS_021208	Laboratory Control Sample				Run: SPEC1_080212A			02/12/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R08020131-001E MS	Sample Matrix Spike				Run: SPEC1_080212A			02/12/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08020131-002E MS	Sample Matrix Spike				Run: SPEC1_080212A			02/12/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Method: A4500-H B								Batch: 080216_1_PH-W	
Sample ID: LCS_pH-1_080216	Laboratory Control Sample				Run: PH_COND2-R_080216A			02/16/08 14:56	
pH	6.93	s.u.	0.010	101	98.55	101.45			
Sample ID: R08020131-002CDUP	Sample Duplicate				Run: PH_COND2-R_080216A			02/16/08 15:08	
pH	7.54	s.u.	0.010				0.0	1.25	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-02-19_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080219A			02/19/08 11:22	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080219A			02/19/08 11:24	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080219A			02/19/08 11:25	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	94	90	110			
Sample ID: R08020157-001BMS	Sample Matrix Spike				Run: TECHAA2-R_080219A			02/19/08 12:45	
Nitrogen, Ammonia as N	0.34	mg/L	0.10	88	80	120			
Sample ID: R08020157-001BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080219A			02/19/08 12:47	
Nitrogen, Ammonia as N	0.31	mg/L	0.10	73	80	120	11	10	SR
Method: A9222 D								Batch: 080213-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080212A			02/13/08 09:20	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97399				02/26/08 12:13
Boron	ND	mg/L	0.01						
Iron	ND	mg/L	0.009						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97440				02/27/08 15:39
Boron	0.550	mg/L	0.10	110	85	115			
Iron	0.554	mg/L	0.030	111	85	115			
Zinc	0.561	mg/L	0.010	112	85	115			
Calcium	52.3	mg/L	0.50	105	85	115			
Magnesium	50.1	mg/L	0.50	100	85	115			
Potassium	51.4	mg/L	0.50	103	85	115			
Sodium	52.2	mg/L	0.53	104	85	115			
Sample ID: C08020547-001BMS	Sample Matrix Spike				Run: SUB-C97440				02/27/08 18:27
Boron	9.95	mg/L	0.13	98	70	130			
Iron	9.57	mg/L	0.087	94	70	130			
Zinc	9.71	mg/L	0.014	97	70	130			
Calcium	929	mg/L	0.79	81	70	130			
Magnesium	555	mg/L	0.80	87	70	130			
Potassium	1160	mg/L	0.50	96	70	130			
Sodium	654	mg/L	5.3	89	70	130			
Sample ID: C08020547-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440				02/27/08 18:30
Boron	10.3	mg/L	0.13	101	70	130	3.6	20	
Iron	9.80	mg/L	0.087	97	70	130	2.4	20	
Zinc	9.90	mg/L	0.014	99	70	130	1.9	20	
Calcium	954	mg/L	0.79	86	70	130	2.7	20	
Magnesium	572	mg/L	0.80	90	70	130	3.0	20	
Potassium	1160	mg/L	0.50	97	70	130	0.1	20	
Sodium	654	mg/L	5.3	89	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R97440
Sample ID: LFB-TM	Laboratory Fortified Blank				Run: SUB-C97440				02/27/08 13:40
Silica	2.0	mg/L	0.10	100	85	125			
Boron	1.9	mg/L	0.10	96	85	125			
Iron	2.0	mg/L	0.030	99	85	125			
Sample ID: LFB-MAJORS	Laboratory Fortified Blank				Run: SUB-C97440				02/27/08 13:43
Calcium	24	mg/L	0.50	96	85	125			
Magnesium	24	mg/L	0.50	96	85	125			
Potassium	25	mg/L	0.50	99	85	125			
Sodium	24	mg/L	0.76	96	85	125			
Sample ID: LRB	Laboratory Reagent Blank				Run: SUB-C97440				02/27/08 13:50
Silica	ND	mg/L	0.10						
Boron	0.015	mg/L	0.10						
Calcium	ND	mg/L	0.50						
Iron	ND	mg/L	0.030						
Magnesium	ND	mg/L	0.50						
Potassium	0.045	mg/L	0.50						
Sodium	ND	mg/L	0.76						
Sample ID: C08020547-001AMS	Sample Matrix Spike				Run: SUB-C97440				02/27/08 17:35
Boron	10.2	mg/L	0.10	100	70	130			
Iron	9.71	mg/L	0.046	97	70	130			
Calcium	914	mg/L	1.0	84	70	130			
Magnesium	558	mg/L	0.50	89	70	130			
Potassium	1140	mg/L	0.50	94	70	130			
Silica	23.1	mg/L	0.20	93	70	130			
Sodium	638	mg/L	7.6	89	70	130			
Sample ID: C08020547-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97440				02/27/08 17:38
Boron	10.3	mg/L	0.10	101	70	130	1.3	20	
Iron	9.72	mg/L	0.046	97	70	130	0.1	20	
Calcium	902	mg/L	1.0	81	70	130	1.3	20	
Magnesium	552	mg/L	0.50	88	70	130	1.1	20	
Potassium	1130	mg/L	0.50	94	70	130	0.4	20	
Silica	22.9	mg/L	0.20	92	70	130	0.6	20	
Sodium	627	mg/L	7.6	87	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17792
Sample ID: MB-17792	Method Blank				Run: SUB-C97226				02/21/08 21:54
Thorium 232	8E-05	mg/L	1E-06						
Uranium	ND	mg/L	1E-06						
Sample ID: LCS1-17792	Laboratory Control Sample				Run: SUB-C97226				02/21/08 22:01
Uranium	0.0534	mg/L	0.00030	101	80	120			
Sample ID: R08020083-003K	Post Digestion Spike				Run: SUB-C97226				02/21/08 23:45
Thorium 232	0.0251	mg/L	0.0010	100	70	130			
Uranium	0.0251	mg/L	0.00030	100	70	130			
Sample ID: R08020083-003K	Post Digestion Spike Duplicate				Run: SUB-C97226				02/21/08 23:53
Thorium 232	0.0247	mg/L	0.0010	99	70	130	1.5	20	
Uranium	0.0248	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: R08020083-003B	Post Digestion Spike				Run: SUB-C97150				02/21/08 06:08
Aluminum	0.276	mg/L	0.10	110	70	130			
Arsenic	0.250	mg/L	0.0010	100	70	130			
Barium	0.252	mg/L	0.10	95	70	130			
Cadmium	0.248	mg/L	0.010	99	70	130			
Chromium	0.252	mg/L	0.050	101	70	130			
Copper	0.255	mg/L	0.010	100	70	130			
Lead	0.252	mg/L	0.050	101	70	130			
Manganese	0.302	mg/L	0.010	106	70	130			
Molybdenum	0.282	mg/L	0.10	112	70	130			
Nickel	0.264	mg/L	0.050	101	70	130			
Silver	0.0830	mg/L	0.010	83	70	130			
Thorium 232	0.249	mg/L	0.0010	100	70	130			
Uranium	0.402	mg/L	0.00030	94	70	130			
Vanadium	0.271	mg/L	0.10	108	70	130			
Sample ID: R08020083-003B	Post Digestion Spike Duplicate				Run: SUB-C97150				02/21/08 06:16
Aluminum	0.361	mg/L	0.10	144	70	130	26	20	SR
Arsenic	0.253	mg/L	0.0010	101	70	130	1.2	20	
Barium	0.253	mg/L	0.10	95	70	130	0.4	20	
Cadmium	0.251	mg/L	0.010	100	70	130	1.1	20	
Chromium	0.252	mg/L	0.050	101	70	130	0.1	20	
Copper	0.251	mg/L	0.010	99	70	130	1.4	20	
Lead	0.253	mg/L	0.050	101	70	130	0.5	20	
Manganese	0.295	mg/L	0.010	103	70	130	2.4	20	
Molybdenum	0.278	mg/L	0.10	110	70	130	1.6	20	
Nickel	0.269	mg/L	0.050	103	70	130	1.7	20	
Silver	0.107	mg/L	0.010	107	70	130	26	20	R
Thorium 232	0.252	mg/L	0.0010	101	70	130	1.2	20	
Uranium	0.406	mg/L	0.00030	95	70	130	1.0	20	
Vanadium	0.271	mg/L	0.10	108	70	130	0.1	20	
Sample ID: MB-17796	Method Blank				Run: SUB-C97150				02/21/08 02:45
Aluminum	ND	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						
Cadmium	ND	mg/L	0.0004						
Chromium	ND	mg/L	0.0002						
Copper	ND	mg/L	0.0001						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	0.001	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97150				02/21/08 02:45
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	0.0001						
Thorium 232	0.0001	mg/L	6E-05						
Uranium	0.0004	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS1-17796	Laboratory Control Sample				Run: SUB-C97150				02/21/08 02:52
Aluminum	0.0183	mg/L	0.10	91	80	120			
Arsenic	0.0201	mg/L	0.0010	100	80	120			
Barium	0.0194	mg/L	0.10	97	80	120			
Cadmium	0.0196	mg/L	0.010	98	80	120			
Chromium	0.0193	mg/L	0.050	97	80	120			
Copper	0.0199	mg/L	0.010	100	80	120			
Lead	0.0196	mg/L	0.050	98	80	120			
Manganese	0.0195	mg/L	0.010	97	80	120			
Molybdenum	0.0202	mg/L	0.10	95	80	120			
Nickel	0.0203	mg/L	0.050	102	80	120			
Silver	0.0214	mg/L	0.010	107	80	120			
Thorium 232	0.0184	mg/L	0.0010	91	80	120			
Uranium	0.0186	mg/L	0.00030	91	80	120			
Vanadium	0.0194	mg/L	0.10	97	80	120			
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97150				02/21/08 03:00
Aluminum	0.0459	mg/L	0.10	92	85	115			
Arsenic	0.0492	mg/L	0.0010	98	85	115			
Barium	0.0487	mg/L	0.10	97	85	115			
Cadmium	0.0492	mg/L	0.010	98	85	115			
Chromium	0.0490	mg/L	0.050	98	85	115			
Copper	0.0488	mg/L	0.010	98	85	115			
Lead	0.0492	mg/L	0.050	98	85	115			
Manganese	0.0480	mg/L	0.010	96	85	115			
Molybdenum	0.0509	mg/L	0.10	99	85	115			
Nickel	0.0501	mg/L	0.050	100	85	115			
Silver	0.0218	mg/L	0.010	109	85	115			
Uranium	0.0479	mg/L	0.00030	95	85	115			
Vanadium	0.0497	mg/L	0.10	99	85	115			
Sample ID: MB-17796	Method Blank				Run: SUB-C97226				02/21/08 20:25
Aluminum	0.2	mg/L	0.0003						
Arsenic	ND	mg/L	0.0001						
Barium	ND	mg/L	8E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_17796
Sample ID: MB-17796	Method Blank				Run: SUB-C97226				02/21/08 20:25
Cadmium	ND	mg/L	0.0002						
Chromium	ND	mg/L	0.0003						
Copper	ND	mg/L	8E-05						
Lead	ND	mg/L	0.0001						
Manganese	0.0001	mg/L	5E-05						
Molybdenum	ND	mg/L	0.0002						
Nickel	8E-05	mg/L	6E-05						
Thorium 232	ND	mg/L	6E-05						
Uranium	ND	mg/L	4E-05						
Vanadium	ND	mg/L	0.0001						
Sample ID: LCS-17796	Laboratory Control Sample				Run: SUB-C97226				02/21/08 20:39
Aluminum	0.0536	mg/L	0.10	107	85	115			
Arsenic	0.0518	mg/L	0.0010	104	85	115			
Barium	0.0520	mg/L	0.10	104	85	115			
Cadmium	0.0526	mg/L	0.010	105	85	115			
Chromium	0.0509	mg/L	0.050	102	85	115			
Copper	0.0494	mg/L	0.010	99	85	115			
Lead	0.0522	mg/L	0.050	104	85	115			
Manganese	0.0505	mg/L	0.010	101	85	115			
Molybdenum	0.0534	mg/L	0.10	107	85	115			
Nickel	0.0496	mg/L	0.050	99	85	115			
Thorium 232	0.0509	mg/L	0.0010	102	85	115			
Uranium	0.0506	mg/L	0.00030	101	85	115			
Vanadium	0.0510	mg/L	0.10	102	85	115			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R97313
Sample ID: LRB	Method Blank				Run: SUB-C97313				02/22/08 14:40
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	6E-05						
Barium	0.0002	mg/L	3E-05						
Cadmium	2E-05	mg/L	1E-05						
Chromium	7E-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						
Silver	0.0005	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	0.01	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97313				02/22/08 16:36
Aluminum	0.0540	mg/L	0.0010	108	85	115			
Arsenic	0.0506	mg/L	0.0010	101	85	115			
Barium	0.0509	mg/L	0.0010	101	85	115			
Cadmium	0.0511	mg/L	0.0010	102	85	115			
Chromium	0.0502	mg/L	0.0010	100	85	115			
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0509	mg/L	0.0010	102	85	115			
Manganese	0.0503	mg/L	0.0010	101	85	115			
Mercury	0.00494	mg/L	0.0010	99	85	115			
Molybdenum	0.0563	mg/L	0.0010	113	85	115			
Nickel	0.0503	mg/L	0.0010	101	85	115			
Silver	0.0196	mg/L	0.0010	95	85	115			
Thorium 232	0.0505	mg/L	0.0010	101	85	115			
Uranium	0.0510	mg/L	0.00030	102	85	115			
Vanadium	0.0504	mg/L	0.0010	101	85	115			
Zinc	0.0523	mg/L	0.0010	84	85	115			S
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97313				02/22/08 14:46
Aluminum	0.0534	mg/L	0.0010	107	85	115			
Arsenic	0.0502	mg/L	0.0010	100	85	115			
Barium	0.0498	mg/L	0.0010	99	85	115			
Cadmium	0.0516	mg/L	0.0010	103	85	115			
Chromium	0.0507	mg/L	0.0010	101	85	115			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R97313
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C97313				02/22/08 14:46
Copper	0.0500	mg/L	0.0010	100	85	115			
Lead	0.0507	mg/L	0.0010	101	85	115			
Manganese	0.0502	mg/L	0.0010	100	85	115			
Mercury	0.00502	mg/L	0.0010	100	85	115			
Molybdenum	0.0540	mg/L	0.0010	108	85	115			
Nickel	0.0502	mg/L	0.0010	100	85	115			
Silver	0.0153	mg/L	0.0010	74	85	115			S
Thorium 232	0.0503	mg/L	0.0010	101	85	115			
Uranium	0.0505	mg/L	0.00030	101	85	115			
Vanadium	0.0508	mg/L	0.0010	102	85	115			
Zinc	0.0708	mg/L	0.0010	121	85	115			S
Sample ID: C08020548-001CMS4	Post Digestion Spike				Run: SUB-C97313				02/22/08 19:46
Aluminum	0.0521	mg/L	0.10	104	70	130			
Arsenic	0.0512	mg/L	0.0010	101	70	130			
Barium	0.0608	mg/L	0.10	103	70	130			
Cadmium	0.0481	mg/L	0.010	96	70	130			
Chromium	0.0491	mg/L	0.050	94	70	130			
Copper	0.0460	mg/L	0.010	91	70	130			
Lead	0.0520	mg/L	0.050	104	70	130			
Manganese	0.136	mg/L	0.010	85	70	130			
Mercury	0.00503	mg/L	0.0010	101	70	130			
Molybdenum	0.0556	mg/L	0.10	109	70	130			
Nickel	0.0468	mg/L	0.050	94	70	130			
Silver	0.0169	mg/L	0.010	84	70	130			
Thorium 232	0.0542	mg/L	0.0010	108	70	130			
Uranium	0.0548	mg/L	0.00030	109	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0482	mg/L	0.010	98	70	130			
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C97313				02/22/08 19:53
Aluminum	0.0499	mg/L	0.10	100	70	130	0.0	20	
Arsenic	0.0497	mg/L	0.0010	98	70	130	2.9	20	
Barium	0.0595	mg/L	0.10	100	70	130	0.0	20	
Cadmium	0.0482	mg/L	0.010	96	70	130	0.2	20	
Chromium	0.0493	mg/L	0.050	95	70	130	0.0	20	
Copper	0.0456	mg/L	0.010	91	70	130	0.9	20	
Lead	0.0510	mg/L	0.050	102	70	130	1.9	20	
Manganese	0.138	mg/L	0.010	88	70	130	1.4	20	
Mercury	0.00513	mg/L	0.0010	102	70	130	1.9	20	
Molybdenum	0.0548	mg/L	0.10	108	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R97313
Sample ID: C08020548-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C97313			02/22/08 19:53	
Nickel	0.0469	mg/L	0.050	94	70	130	0.0	20	
Silver	0.0170	mg/L	0.010	85	70	130	0.4	20	
Thorium 232	0.0540	mg/L	0.0010	108	70	130	0.2	20	
Uranium	0.0542	mg/L	0.00030	108	70	130	1.1	20	
Vanadium	0.0501	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0452	mg/L	0.010	92	70	130	6.4	20	
Sample ID: C08020583-002AMS	Sample Matrix Spike				Run: SUB-C97313			02/23/08 03:28	
Copper	0.0729	mg/L	0.010	99	70	130			
Lead	0.0510	mg/L	0.0010	102	70	130			
Sample ID: C08020583-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97313			02/23/08 03:35	
Copper	0.0713	mg/L	0.010	96	70	130	2.2	20	
Lead	0.0495	mg/L	0.0010	99	70	130	3.1	20	
Method: E245.1									Batch: C_B_31545
Sample ID: MB-31545	Method Blank				Run: SUB-C98680			03/25/08 08:12	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31545	Laboratory Fortified Blank				Run: SUB-C98680			03/25/08 08:33	
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08031522-006DMS	Sample Matrix Spike				Run: SUB-C98680			03/25/08 08:38	
Mercury	0.0016	mg/L	0.0010	82	70	130			
Sample ID: B08031522-006DMSD	Sample Matrix Spike Duplicate				Run: SUB-C98680			03/25/08 08:40	
Mercury	0.0017	mg/L	0.0010	84	70	130	1.8	30	
Sample ID: B08031535-002BMS	Sample Matrix Spike				Run: SUB-C98680			03/25/08 09:11	
Mercury	0.0017	mg/L	0.0010	82	70	130			
Sample ID: B08031535-002BMSD	Sample Matrix Spike Duplicate				Run: SUB-C98680			03/25/08 09:16	
Mercury	0.0020	mg/L	0.0010	95	70	130	14	30	
Method: E245.1									Analytical Run: SUB-C98680
Sample ID: QCS	Initial Calibration Verification Standard							03/25/08 07:54	
Mercury	0.0019	mg/L	0.0010	93	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R33510
Sample ID: LFB0802130124-1	Laboratory Fortified Blank				Run: DIONEX_080214A				02/14/08 15:42
Chloride	5.60	mg/L	0.50	112	90	110			S
Fluoride	2.13	mg/L	0.10	106	90	110			
Nitrogen, Nitrate as N	2.52	mg/L	0.10	101	90	110			
Sulfate	14.9	mg/L	1.0	99	90	110			
Sample ID: LFB0802130124-1	Laboratory Fortified Blank				Run: DIONEX_080214A				02/14/08 15:57
Chloride	5.29	mg/L	0.50	106	90	110			
Fluoride	1.89	mg/L	0.10	95	90	110			
Nitrogen, Nitrate as N	2.42	mg/L	0.10	97	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08020138-002AMS	Sample Matrix Spike				Run: DIONEX_080214A				02/15/08 02:14
Chloride	294	mg/L	0.54		80	120			A
Fluoride	10.3	mg/L	0.10	93	80	120			
Nitrogen, Nitrate as N	34.8	mg/L	0.13	90	80	120			
Sulfate	1330	mg/L	1.0		80	120			A
Sample ID: R08020138-002AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080214A				02/15/08 09:43
Chloride	294	mg/L	0.54		80	120	0.0	10	A
Fluoride	11.1	mg/L	0.10	101	80	120	7.0	10	
Nitrogen, Nitrate as N	34.6	mg/L	0.13	89	80	120	0.6	10	
Sulfate	1320	mg/L	1.0		80	120	0.4	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0398	
Sample ID: MB-GrAB-0398	Method Blank				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	ND	pCi/L	1						
Gross Beta	ND	pCi/L	2						
Sample ID: UNAT-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	230	pCi/L	1.0	94	70	130			
Sample ID: Cs137-GrAB-0398	Laboratory Control Sample				Run: SUB-C97539			02/28/08 02:16	
Gross Beta	89	pCi/L	2.0	94	70	130			
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:16	
Gross Alpha	340	pCi/L	1.0	117	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Alpha	370	pCi/L	1.0	127	70	130	8.0	11.9	
Sample ID: C08020423-001AMS	Sample Matrix Spike				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	100	pCi/L	2.0	87	70	130			
Sample ID: C08020423-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97539			02/28/08 02:15	
Gross Beta	110	pCi/L	2.0	92	70	130	5.4	15.5	
Method: E901.1								Batch: C_R97137	
Sample ID: LCS-R97137	Laboratory Control Sample				Run: SUB-C97137			02/19/08 08:48	
Americium 241	720	pCi/L	20	88	70	130			
Cesium 137	1200	pCi/L	20	82	70	130			
Potassium 40	7400	pCi/L	20	111	70	130			
Sample ID: MB-R97137	Method Blank				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20						
Sample ID: R08020083-003I	Sample Duplicate				Run: SUB-C97137			02/19/08 08:48	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-2633
Sample ID: R08020083-003K	Sample Matrix Spike				Run: SUB-C97303				02/25/08 14:45
Radium 226	120	pCi/L	0.20	95	70	130			
Sample ID: R08020083-003K	Sample Matrix Spike Duplicate				Run: SUB-C97303				02/25/08 14:45
Radium 226	120	pCi/L	0.20	92	70	130	2.6	24.9	
Sample ID: LCS-17792	Laboratory Control Sample				Run: SUB-C97303				02/25/08 14:45
Radium 226	12	pCi/L	0.20	95	70	130			
Sample ID: MB-17792	Method Blank				Run: SUB-C97303				02/25/08 14:45
Radium 226	ND	pCi/L	0.2						
Method: E903.0									Batch: C_RA226-2639
Sample ID: C08020692-001AMS	Sample Matrix Spike				Run: SUB-C97776				03/04/08 04:52
Radium 226	9.7	pCi/L	0.20	81	70	130			
Sample ID: C08020692-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97776				03/04/08 06:22
Radium 226	10	pCi/L	0.20	92	70	130	6.8	22.2	
Sample ID: MB-RA226-2639	Method Blank				Run: SUB-C97776				03/04/08 07:52
Radium 226	ND	pCi/L							
Sample ID: LCS-RA226-2639	Laboratory Control Sample				Run: SUB-C97776				03/04/08 09:23
Radium 226	12	pCi/L	0.40	93	70	130			
Method: E903.0									Batch: C_RA226-2642
Sample ID: C08020706-001AMS	Sample Matrix Spike				Run: SUB-C97642				03/03/08 11:48
Radium 226	7.2	pCi/L	0.20	89	70	130			
Sample ID: C08020706-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C97642				03/03/08 11:48
Radium 226	7.4	pCi/L	0.20	92	70	130	3.2	23.5	
Sample ID: MB-RA226-2642	Method Blank				Run: SUB-C97642				03/03/08 13:34
Radium 226	0.01	pCi/L							
Sample ID: LCS-RA226-2642	Laboratory Control Sample				Run: SUB-C97642				03/03/08 16:21
Radium 226	5.6	pCi/L	0.20	88	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 05/08/08
Work Order: R08020131

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_17792
Sample ID: R08020131-001K	Sample Duplicate				Run: SUB-C97814				02/21/08 16:15
Thorium 230	0.332	pCi/L	0.20		70	130	15	30	
Sample ID: LCS-17792	Laboratory Control Sample				Run: SUB-C97814				02/21/08 16:15
Thorium 230	32.7	pCi/g-dry	0.10	67	70	130			S
- LCS response is below the acceptance range for this analysis. Since the MB and the RPDs for all 3 MDs are acceptable the batch is approved.									
Sample ID: MB-17792	Method Blank				Run: SUB-C97814				02/21/08 16:15
Thorium 230	ND	pCi/g-dry							
Method: E907.0									Batch: C_R98194
Sample ID: LCS-R98194	Laboratory Control Sample				Run: SUB-C98194				02/22/08 14:15
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08020548-004HMS	Sample Matrix Spike				Run: SUB-C98194				02/22/08 14:15
Thorium 230	44.3	pCi/L	0.20	93	70	130			
Sample ID: C08020548-004HMSD	Sample Matrix Spike Duplicate				Run: SUB-C98194				02/22/08 14:15
Thorium 230	42.4	pCi/L	0.20	89	70	130	4.4	30	
Sample ID: MB-R98194	Method Blank				Run: SUB-C98194				02/22/08 14:15
Thorium 230		pCi/L							

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible.
Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Dewey-Burdock

Report Address: PO Box 725, Rapid City, SD 57709

Contact Name, Phone, Fax, E-mail: Cory Foreman 394-6400

Sampler Name if other than Contact: Crystal Hocking, Matt Stoltenberg

Invoice Address:

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

Special Report Formats – ELI must be notified prior to sample submittal for the following:
NELAC ☐ A2LA ☐ Level IV ☐
Other _____
EDD/EDT ☐ Format _____

ANALYSIS REQUESTED: As per Quote

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 3.9 °C
Cooler ID(s) ice
Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers / Sample Type: A W S V U O / Air Water Soils/Solids Vegetation Urine Other / MATRIX	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID (LABORATORY USE ONLY)
1	SW CHR05	2/12/08	9:20	W				Bag 19	D8020131-001
2	SW Sub24	2/12/08	9:45	W				3	002
3									
4									
5									
6									
7									
8									
9									
10									

Custody Record MUST be Signed

Relinquished by: Crystal M Hocking — Date/Time: 12/2/08 3:00 — Shipped by:
Relinquished by: — Date/Time: — Shipped by:
Received by: — Date/Time:
Received by: Anda — Date/Time: 2/12/08 1538

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY
Sample Type: _____ # of fractions _____

Visit our web site at **www.energylab.com** for additional information, downloadable fee schedule, forms, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

July 29, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08030091 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 3/10/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030091-001	DewBurd CHR05	03/09/08 9:00	03/10/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08030091-002	DewBurd BVC04	03/09/08 11:05	03/10/08	Aqueous	Same As Above
R08030091-003	DewBurd BVC04	03/09/08 11:15	03/10/08	Aqueous	Same As Above
R08030091-004	DewBurd CHR01	03/09/08 14:15	03/10/08	Aqueous	Same As Above
R08030091-005	DewBurd BVC01	03/09/08 15:15	03/10/08	Aqueous	Same As Above
R08030091-006	DewBurd BLK01	03/09/08 17:35	03/10/08	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Linda Lar

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-001
Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
Collection Date: 03/09/08 09:00
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	32	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Bicarbonate as HCO3	112	mg/L		5		1	A2320 B	03/17/08 14:49/sn
Calcium	152	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Chloride	232	mg/L	D	5		50	E300.0	03/12/08 09:21/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 10:09/jmh
Magnesium	34.2	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:22/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 10:09/jmh
Potassium	6	mg/L		1		5	E200.7	04/10/08 20:16/eli-b
Sodium	197	mg/L		0.5		5	E200.7	04/10/08 20:16/eli-b
Sulfate	463	mg/L	D	3		50	E300.0	03/12/08 09:21/jmh
Silica	5.6	mg/L		0.2		5	E200.7	04/10/08 20:16/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1810	umhos/cm		5.0		1	A2510 B	03/12/08 15:25/jmh
pH	7.67	s.u.		0.01		1	A4500-H B	03/12/08 12:47/jmh
Sodium Adsorption Ratio (SAR)	3.8	Unitless		0.10		1	Calculation	04/10/08 20:16/krs
Solids, Suspended Sediment SSC @ 105 C	197	mg/L		5		1	D3977	03/10/08 12:21/jmh
Solids, Total Dissolved TDS @ 180 C	1200	mg/L		5		1	A2540 C	03/10/08 12:47/jmh
Solids, Total Suspended TSS @ 105 C	220	mg/L		5		1	A2540 D	03/11/08 14:11/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:16/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:16/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:16/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Manganese	0.04	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:01/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-001
Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
Collection Date: 03/09/08 09:00
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:01/eli-c
Uranium	0.0039	mg/L		0.0003		1	E200.8	04/04/08 01:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:01/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:01/eli-c
METALS - SUSPENDED								
Thorium 232	0.003	mg/L		0.001		1	E200.8	03/28/08 18:18/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	03/28/08 18:18/eli-c
METALS - TOTAL								
Aluminum	8.8	mg/L		0.1		2	E200.7	04/12/08 01:49/eli-b
Arsenic	0.003	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Boron	0.1	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 19:28/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Iron	6.92	mg/L		0.03		2	E200.7	04/12/08 01:49/eli-b
Lead	0.006	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Manganese	0.21	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 19:28/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 19:28/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 19:28/eli-b
Uranium	0.0043	mg/L		0.0003		1	E200.8	04/11/08 19:28/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 19:28/eli-b
Zinc	0.03	mg/L		0.01		1	E200.8	04/11/08 19:28/eli-b
Calcium	148	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Magnesium	35.3	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Potassium	6.9	mg/L		0.5		2	E200.7	04/12/08 01:49/eli-b
Sodium	196	mg/L	D	2		2	E200.7	04/12/08 01:49/eli-b
Silica	48.3	mg/L		0.2		2	E200.7	04/12/08 01:49/eli-b

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-001
Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
Collection Date: 03/09/08 09:00
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:07/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:10/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:29/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:33/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.07	pCi/L	U			1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.8	pCi/L				1	E903.0	04/01/08 11:46/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0	04/01/08 11:46/eli-c
Radium 226 MDC	1.3	pCi/L				1	E903.0	04/01/08 11:46/eli-c
Thorium 230	1.4	pCi/L		0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	4.0	pCi/L	U			1	E900.0	04/02/08 04:03/eli-c
Gross Alpha precision (±)	3.7	pCi/L				1	E900.0	04/02/08 04:03/eli-c
Gross Alpha MDC	5.7	pCi/L				1	E900.0	04/02/08 04:03/eli-c
Gross Beta	4.8	pCi/L	U			1	E900.0	04/02/08 04:03/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	04/02/08 04:03/eli-c
Gross Beta MDC	5.6	pCi/L				1	E900.0	04/02/08 04:03/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.8	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	1	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	1.5	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-001
Client Sample ID: DewBurd CHR05

Report Date: 07/29/08
Collection Date: 03/09/08 09:00
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:27/eli-b
DATA QUALITY								
A/C Balance (± 5)	2.67	%				1	A1030 E	05/08/08 09:29/krs
Anions	18.1	meq/L				1	A1030 E	05/08/08 09:29/krs
Cations	19.1	meq/L				1	A1030 E	05/08/08 09:29/krs
Solids, Total Dissolved Calculated	1160	mg/L				1	A1030 E	05/08/08 09:29/krs
TDS Balance (0.80 - 1.20)	1.04	dec. %				1	A1030 E	05/08/08 09:29/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-002
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:05
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	32	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	118	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Bicarbonate as HCO3	144	mg/L		5		1	A2320 B	03/17/08 14:58/sn
Calcium	225	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Chloride	339	mg/L	D	5		50	E300.0	03/12/08 10:25/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 10:41/jmh
Magnesium	53.3	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:23/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 10:41/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:36/eli-b
Sodium	280	mg/L		0.5		5	E200.7	04/10/08 20:36/eli-b
Sulfate	681	mg/L	D	3		50	E300.0	03/12/08 10:25/jmh
Silica	7.4	mg/L		0.2		5	E200.7	04/10/08 20:36/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2640	umhos/cm		5.0		1	A2510 B	03/12/08 15:30/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	03/12/08 13:23/jmh
Sodium Adsorption Ratio (SAR)	4.3	Unitless		0.10		1	Calculation	04/10/08 20:36/krs
Solids, Suspended Sediment SSC @ 105 C	323	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	03/10/08 12:48/jmh
Solids, Total Suspended TSS @ 105 C	270	mg/L		5		1	A2540 D	03/11/08 14:11/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:36/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/10/08 20:36/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:36/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Manganese	0.08	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:08/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-002
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:05
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:08/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	04/04/08 01:08/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:08/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:08/eli-c
METALS - SUSPENDED								
Thorium 232	0.004	mg/L		0.001		1	E200.8	03/28/08 18:25/eli-c
Uranium	0.0014	mg/L		0.0003		1	E200.8	03/28/08 18:25/eli-c
METALS - TOTAL								
Aluminum	9.9	mg/L		0.1		2	E200.7	04/12/08 01:53/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Boron	0.1	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:08/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Iron	8.65	mg/L		0.03		2	E200.7	04/12/08 01:53/eli-b
Lead	0.007	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Manganese	0.28	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:08/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:08/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Thorium 232	0.005	mg/L		0.005		1	E200.8	04/11/08 20:08/eli-b
Uranium	0.0061	mg/L		0.0003		1	E200.8	04/11/08 20:08/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:08/eli-b
Zinc	0.06	mg/L		0.01		1	E200.8	04/11/08 20:08/eli-b
Calcium	217	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Magnesium	53.5	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Potassium	6.6	mg/L		0.5		2	E200.7	04/12/08 01:53/eli-b
Sodium	273	mg/L	D	2		2	E200.7	04/12/08 01:53/eli-b
Silica	54.5	mg/L		0.2		2	E200.7	04/12/08 01:53/eli-b

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-002
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:05
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:13/eli-c
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	03/19/08 09:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:35/eli-c
Selenium-IV	0.001	mg/L		0.001		1	A3114 B	03/19/08 09:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.08	pCi/L	U			1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	2.5	pCi/L	U			1	E903.0	05/16/08 09:52/eli-c
Radium 226 precision (±)	2.0	pCi/L				1	E903.0	05/16/08 09:52/eli-c
Radium 226 MDC	2.8	pCi/L				1	E903.0	05/16/08 09:52/eli-c
Thorium 230	0.3	pCi/L	U	0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.7	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	5.4	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	8.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	-2	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	4.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	7.1	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.1	pCi/L	U			1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-002
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:05
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:29/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.30	%				1	A1030 E	05/08/08 09:39/krs
Anions	26.1	meq/L				1	A1030 E	05/08/08 09:39/krs
Cations	27.9	meq/L				1	A1030 E	05/08/08 09:39/krs
Solids, Total Dissolved Calculated	1680	mg/L				1	A1030 E	05/08/08 09:39/krs
TDS Balance (0.80 - 1.20)	1.06	dec. %				1	A1030 E	05/08/08 09:39/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-003
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	36	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	116	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Bicarbonate as HCO3	141	mg/L		5		1	A2320 B	03/17/08 15:00/sn
Calcium	220	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Chloride	364	mg/L	D	5		50	E300.0	03/12/08 10:57/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/12/08 11:13/jmh
Magnesium	51.9	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:24/jmh
Nitrogen, Nitrate as N	0.5	mg/L		0.1		1	E300.0	03/12/08 11:13/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:45/eli-b
Sodium	266	mg/L		0.5		5	E200.7	04/10/08 20:45/eli-b
Sulfate	736	mg/L	D	3		50	E300.0	03/12/08 10:57/jmh
Silica	7.2	mg/L		0.2		5	E200.7	04/10/08 20:45/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2510	umhos/cm		5.0		1	A2510 B	03/12/08 15:29/jmh
pH	7.90	s.u.		0.01		1	A4500-H B	03/12/08 13:23/jmh
Sodium Adsorption Ratio (SAR)	4.2	Unitless		0.10		1	Calculation	04/10/08 20:45/krs
Solids, Suspended Sediment SSC @ 105 C	326	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1800	mg/L		5		1	A2540 C	03/10/08 12:48/jmh
Solids, Total Suspended TSS @ 105 C	290	mg/L		5		1	A2540 D	03/11/08 14:12/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:45/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:15/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:45/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:15/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:45/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Manganese	0.09	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:15/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:15/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-003
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:15/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:15/eli-c
Uranium	0.0055	mg/L		0.0003		1	E200.8	04/04/08 01:15/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:15/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:15/eli-c
METALS - SUSPENDED								
Thorium 232	0.004	mg/L		0.001		1	E200.8	03/28/08 18:31/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8	03/28/08 18:31/eli-c
METALS - TOTAL								
Aluminum	8.3	mg/L		0.1		2	E200.7	04/12/08 01:57/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8	04/11/08 20:22/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:22/eli-b
Boron	0.1	mg/L		0.1		1	E200.8	04/11/08 20:22/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:22/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:22/eli-b
Chromium, Hexavalent	0.008	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 20:22/eli-b
Iron	8.28	mg/L		0.03		2	E200.7	04/12/08 01:57/eli-b
Lead	0.008	mg/L		0.001		1	E200.8	04/11/08 20:22/eli-b
Manganese	0.29	mg/L		0.01		1	E200.8	04/11/08 20:22/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:22/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:22/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:22/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:22/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 20:22/eli-b
Uranium	0.0062	mg/L		0.0003		1	E200.8	04/11/08 20:22/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:22/eli-b
Zinc	0.04	mg/L		0.01		1	E200.8	04/11/08 20:22/eli-b
Calcium	223	mg/L		0.5		2	E200.7	04/12/08 01:57/eli-b
Magnesium	54.8	mg/L		0.5		2	E200.7	04/12/08 01:57/eli-b
Potassium	6.4	mg/L		0.5		2	E200.7	04/12/08 01:57/eli-b
Sodium	277	mg/L	D	2		2	E200.7	04/12/08 01:57/eli-b
Silica	46.3	mg/L		0.2		2	E200.7	04/12/08 01:57/eli-b

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-003
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	03/19/08 11:16/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:18/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	03/19/08 11:38/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:42/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.06	pCi/L	U			1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.3	pCi/L	U			1	E903.0	05/16/08 11:48/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0	05/16/08 11:48/eli-c
Radium 226 MDC	2.6	pCi/L				1	E903.0	05/16/08 11:48/eli-c
Thorium 230	1	pCi/L		0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.8	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	5.7	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	8.5	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	2.9	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	4.3	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	7.1	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.2	pCi/L	U			1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	1.0	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.6	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-003
Client Sample ID: DewBurd BVC04

Report Date: 07/29/08
Collection Date: 03/09/08 11:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:32/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.79	%				1	A1030 E	05/08/08 09:40/krs
Anions	27.9	meq/L				1	A1030 E	05/08/08 09:40/krs
Cations	27.0	meq/L				1	A1030 E	05/08/08 09:40/krs
Solids, Total Dissolved Calculated	1730	mg/L				1	A1030 E	05/08/08 09:40/krs
TDS Balance (0.80 - 1.20)	1.02	dec. %				1	A1030 E	05/08/08 09:40/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-004
Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
Collection Date: 03/09/08 14:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	4		4	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	92	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Bicarbonate as HCO3	112	mg/L		5		1	A2320 B	03/17/08 15:02/sn
Calcium	155	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Chloride	249	mg/L	D	5		50	E300.0	03/12/08 11:29/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	03/12/08 11:45/jmh
Magnesium	36.0	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:25/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	03/12/08 11:45/jmh
Potassium	5	mg/L		1		5	E200.7	04/10/08 20:49/eli-b
Sodium	189	mg/L		0.5		5	E200.7	04/10/08 20:49/eli-b
Sulfate	572	mg/L	D	3		50	E300.0	03/12/08 11:29/jmh
Silica	5.6	mg/L		0.2		5	E200.7	04/10/08 20:49/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1860	umhos/cm		5.0		1	A2510 B	03/12/08 00:00/jmh
pH	7.78	s.u.		0.01		1	A4500-H B	03/12/08 13:24/jmh
Sodium Adsorption Ratio (SAR)	3.5	Unitless		0.10		1	Calculation	04/10/08 20:49/krs
Solids, Suspended Sediment SSC @ 105 C	424	mg/L		5		1	D3977	03/10/08 12:22/jmh
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	03/10/08 11:49/jmh
Solids, Total Suspended TSS @ 105 C	400	mg/L		5		1	A2540 D	03/11/08 14:12/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:49/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:21/eli-c
Boron	0.1	mg/L		0.1		5	E200.7	04/10/08 20:49/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:21/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:49/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Manganese	0.05	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:21/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:21/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-004
Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
Collection Date: 03/09/08 14:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:21/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:21/eli-c
Uranium	0.0034	mg/L		0.0003		1	E200.8	04/04/08 01:21/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:21/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:21/eli-c
METALS - SUSPENDED								
Thorium 232	0.005	mg/L		0.001		1	E200.8	03/28/08 18:38/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	03/28/08 18:38/eli-c
METALS - TOTAL								
Aluminum	8.4	mg/L		0.1		2	E200.7	04/12/08 02:01/eli-b
Arsenic	0.004	mg/L		0.001		1	E200.8	04/11/08 20:35/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:35/eli-b
Boron	ND	mg/L		0.1		1	E200.8	04/11/08 20:35/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:35/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:35/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	0.01	mg/L		0.01		1	E200.8	04/11/08 20:35/eli-b
Iron	9.12	mg/L		0.03		2	E200.7	04/12/08 02:01/eli-b
Lead	0.008	mg/L		0.001		1	E200.8	04/11/08 20:35/eli-b
Manganese	0.33	mg/L		0.01		1	E200.8	04/11/08 20:35/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:35/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:35/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:35/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:35/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 20:35/eli-b
Uranium	0.0043	mg/L		0.0003		1	E200.8	04/11/08 20:35/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:35/eli-b
Zinc	0.05	mg/L		0.01		1	E200.8	04/11/08 20:35/eli-b
Calcium	160	mg/L		0.5		2	E200.7	04/12/08 02:01/eli-b
Magnesium	38.4	mg/L		0.5		2	E200.7	04/12/08 02:01/eli-b
Potassium	6.7	mg/L		0.5		2	E200.7	04/12/08 02:01/eli-b
Sodium	191	mg/L	D	2		2	E200.7	04/12/08 02:01/eli-b
Silica	45.4	mg/L		0.2		2	E200.7	04/12/08 02:01/eli-b

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-004
Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
Collection Date: 03/09/08 14:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:18/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	03/19/08 11:40/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:45/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.2	pCi/L	U			1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.3	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Thorium 230	0.8	pCi/L		0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.1	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	6.0	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	4.8	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	5.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.5	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.9	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.8	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-004
Client Sample ID: DewBurd CHR01

Report Date: 07/29/08
Collection Date: 03/09/08 14:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:34/eli-b
DATA QUALITY								
A/C Balance (± 5)	-4.49	%				1	A1030 E	05/09/08 07:35/krs
Anions	20.8	meq/L				1	A1030 E	05/09/08 07:35/krs
Cations	19.0	meq/L				1	A1030 E	05/09/08 07:35/krs
Solids, Total Dissolved Calculated	1280	mg/L				1	A1030 E	05/09/08 07:35/krs
TDS Balance (0.80 - 1.20)	0.980	dec. %				1	A1030 E	05/09/08 07:35/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-005
Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
Collection Date: 03/09/08 15:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	214	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Bicarbonate as HCO3	261	mg/L		5		1	A2320 B	03/17/08 15:04/sn
Calcium	308	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Chloride	113	mg/L	D	5		50	E300.0	03/12/08 12:01/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/12/08 12:17/jmh
Magnesium	129	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/12/08 12:17/jmh
Potassium	12	mg/L		1		5	E200.7	04/10/08 20:53/eli-b
Sodium	864	mg/L		0.5		5	E200.7	04/10/08 20:53/eli-b
Sulfate	2490	mg/L	D	3		50	E300.0	03/12/08 12:01/jmh
Silica	6.9	mg/L		0.2		5	E200.7	04/10/08 20:53/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5000	umhos/cm		5.0		1	A2510 B	03/12/08 15:31/jmh
pH	8.10	s.u.		0.01		1	A4500-H B	03/12/08 13:25/jmh
Sodium Adsorption Ratio (SAR)	10	Unitless		0.10		1	Calculation	04/10/08 20:53/krs
Solids, Suspended Sediment SSC @ 105 C	11	mg/L		5		1	D3977	03/10/08 12:23/jmh
Solids, Total Dissolved TDS @ 180 C	4300	mg/L		5		1	A2540 C	03/10/08 11:50/jmh
Solids, Total Suspended TSS @ 105 C	12	mg/L		5		1	A2540 D	03/11/08 14:13/jmh
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:53/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c
Boron	0.2	mg/L		0.1		5	E200.7	04/10/08 20:53/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:53/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Manganese	0.32	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:28/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-005
Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
Collection Date: 03/09/08 15:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.01	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:28/eli-c
Uranium	0.0269	mg/L		0.0003		1	E200.8	04/04/08 01:28/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:28/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	03/28/08 18:45/eli-c
Uranium	0.0009	mg/L		0.0003		1	E200.8	03/28/08 18:45/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		2	E200.7	04/12/08 02:13/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Barium	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Boron	0.2	mg/L		0.1		2	E200.7	04/12/08 02:13/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Chromium	ND	mg/L		0.05		1	E200.8	04/11/08 20:49/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Iron	0.44	mg/L		0.03		2	E200.7	04/12/08 02:13/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Manganese	0.36	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 20:49/eli-b
Molybdenum	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Nickel	ND	mg/L		0.05		1	E200.8	04/11/08 20:49/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 20:49/eli-b
Uranium	0.0262	mg/L		0.0003		1	E200.8	04/11/08 20:49/eli-b
Vanadium	ND	mg/L		0.1		1	E200.8	04/11/08 20:49/eli-b
Zinc	ND	mg/L		0.01		1	E200.8	04/11/08 20:49/eli-b
Calcium	295	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Magnesium	127	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Potassium	11.3	mg/L		0.5		2	E200.7	04/12/08 02:13/eli-b
Sodium	876	mg/L	D	2		2	E200.7	04/12/08 02:13/eli-b
Silica	8.2	mg/L		0.2		2	E200.7	04/12/08 02:13/eli-b

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-005
Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
Collection Date: 03/09/08 15:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:20/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:42/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:47/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	-0.02	pCi/L	U			1	E903.0	03/26/08 11:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 11:40/eli-c
Thorium 230	0.0	pCi/L		0.2		1	E907.0	04/04/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/04/08 15:30/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.7	pCi/L	U			1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.2	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	17.4	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	11.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	17.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	12.5	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	11.2	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	18.4	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.7	pCi/L	U			1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-005
Client Sample ID: DewBurd BVC01

Report Date: 07/29/08
Collection Date: 03/09/08 15:15
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:37/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.65	%				1	A1030 E	05/09/08 07:49/krs
Anions	59.4	meq/L				1	A1030 E	05/09/08 07:49/krs
Cations	63.9	meq/L				1	A1030 E	05/09/08 07:49/krs
Solids, Total Dissolved Calculated	4070	mg/L				1	A1030 E	05/09/08 07:49/krs
TDS Balance (0.80 - 1.20)	1.04	dec. %				1	A1030 E	05/09/08 07:49/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-006
Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
Collection Date: 03/09/08 17:35
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/10/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	03/17/08 15:06/sn
Calcium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Chloride	ND	mg/L		1		1	E300.0	03/12/08 13:04/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	03/12/08 13:04/jmh
Magnesium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/14/08 16:27/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/12/08 13:04/jmh
Potassium	ND	mg/L		1		5	E200.7	04/10/08 20:57/eli-b
Sodium	ND	mg/L		0.5		5	E200.7	04/10/08 20:57/eli-b
Sulfate	ND	mg/L		1		1	E300.0	03/12/08 13:04/jmh
Silica	ND	mg/L		0.2		5	E200.7	04/10/08 20:57/eli-b
PHYSICAL PROPERTIES								
Conductivity @ 25 C	12.4	umhos/cm		5.0		1	A2510 B	03/12/08 15:33/jmh
pH	6.41	s.u.		0.01		1	A4500-H B	03/12/08 13:28/jmh
Sodium Adsorption Ratio (SAR)	ND	Unitless		0.10		1	Calculation	04/10/08 20:57/krs
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	03/10/08 12:23/jmh
Solids, Total Dissolved TDS @ 180 C	6	mg/L		5		1	A2540 C	03/10/08 11:50/jmh
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	03/11/08 14:14/jmh
TDS results confirmed								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		5	E200.7	04/10/08 20:57/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c
Boron	ND	mg/L		0.1		5	E200.7	04/10/08 20:57/eli-b
Cadmium	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Iron	ND	mg/L		0.03		5	E200.7	04/10/08 20:57/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/04/08 01:35/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-006
Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
Collection Date: 03/09/08 17:35
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/04/08 01:35/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/04/08 01:35/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/04/08 01:35/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/04/08 01:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	03/28/08 18:51/eli-c
Uranium	0.0036	mg/L		0.0003		1	E200.8	03/28/08 18:51/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Arsenic	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Barium	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Boron	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Cadmium	ND	mg/L		0.005		5	E200.7	04/11/08 02:44/eli-b
Chromium	ND	mg/L		0.05		5	E200.7	04/11/08 02:44/eli-b
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	03/10/08 00:00/jmh
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	05/08/08 10:46/krs
Copper	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Iron	ND	mg/L		0.03		5	E200.7	04/11/08 02:44/eli-b
Lead	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Manganese	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Mercury	ND	mg/L		0.001		1	E200.8	04/11/08 21:02/eli-b
Molybdenum	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Nickel	ND	mg/L		0.05		5	E200.7	04/11/08 02:44/eli-b
Silver	ND	mg/L		0.005		1	E200.8	04/11/08 21:02/eli-b
Thorium 232	ND	mg/L		0.005		1	E200.8	04/11/08 21:02/eli-b
Uranium	ND	mg/L		0.0003		1	E200.8	04/11/08 21:02/eli-b
Vanadium	ND	mg/L		0.1		5	E200.7	04/11/08 02:44/eli-b
Zinc	ND	mg/L		0.01		5	E200.7	04/11/08 02:44/eli-b
Calcium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Magnesium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Potassium	ND	mg/L		0.5		5	E200.7	04/11/08 02:44/eli-b
Sodium	ND	mg/L		0.5		1	E200.8	04/11/08 21:02/eli-b
Silica	ND	mg/L		0.2		5	E200.7	04/11/08 02:44/eli-b

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-006
Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
Collection Date: 03/09/08 17:35
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:25/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	03/19/08 11:44/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	03/19/08 09:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	03/19/08 12:04/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	-0.09	pCi/L	U			1	E903.0	03/26/08 15:32/eli-c
Radium 226 precision (±)	0.08	pCi/L				1	E903.0	03/26/08 15:32/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	03/26/08 15:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.7	pCi/L	U			1	E903.0	04/01/08 13:23/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Radium 226 MDC	1.2	pCi/L				1	E903.0	04/01/08 13:23/eli-c
Thorium 230	1.8	pCi/L		0.2		1	E907.0	03/26/08 15:15/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	03/26/08 15:15/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	-0.2	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta	-1	pCi/L	U			1	E900.0	04/02/08 20:04/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	04/02/08 20:04/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	03/14/08 16:57/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	03/14/08 16:57/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.6	pCi/L	U			1	E903.0	04/21/08 13:54/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	04/21/08 13:54/eli-c
Thorium 230	1.8	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.8	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030091-006
Client Sample ID: DewBurd BLK01

Report Date: 07/29/08
Collection Date: 03/09/08 17:35
Date Received: 03/10/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	03/24/08 12:39/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.49	%				1	A1030 E	05/09/08 08:00/krs
Anions	0.00705	meq/L				1	A1030 E	05/09/08 08:00/krs
Cations	0.00727	meq/L				1	A1030 E	05/09/08 08:00/krs

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080317A-ALK-SEL-W	
Sample ID: MBLK1_080317A	Method Blank				Run: PH_COND1-R_080317A			03/17/08 14:21	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Bicarbonate as HCO3	ND	mg/L	3						
Carbonate as CO3	ND	mg/L	3						
Sample ID: LCS1_080317A	Laboratory Control Sample				Run: PH_COND1-R_080317A			03/17/08 14:23	
Alkalinity, Total as CaCO3	1000	mg/L	5.0	102	90	110			
Sample ID: R08030091-001CMS	Sample Matrix Spike				Run: PH_COND1-R_080317A			03/17/08 14:53	
Alkalinity, Total as CaCO3	202	mg/L	5.0	104	80	120			
Sample ID: R08030091-001CMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080317A			03/17/08 14:55	
Alkalinity, Total as CaCO3	202	mg/L	5.0	104	80	120	0.0	10	
Method: A2510 B								Batch: 080312_1_COND-PROBE-W	
Sample ID: LCS1-1_080312	Laboratory Control Sample				Run: PH_COND2-R_080312A			03/12/08 15:17	
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_080312	Laboratory Control Sample				Run: PH_COND2-R_080312A			03/12/08 15:25	
Conductivity @ 25 C	5000	umhos/cm	5.0	100	90	110			
Sample ID: LCS_COND-1_080312	Laboratory Control Sample				Run: PH_COND2-R_080312A			03/12/08 15:38	
Conductivity @ 25 C	1500	umhos/cm	5.0	106	90	110			
Sample ID: MBLK-1_080312	Method Blank				Run: PH_COND2-R_080312A			03/12/08 15:21	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08030091-001CDUP	Sample Duplicate				Run: PH_COND2-R_080312A			03/12/08 15:30	
Conductivity @ 25 C	1860	umhos/cm	5.0				2.7	10	
Method: A2540 C								Batch: 080310A-SLDS-TDS-W	
Sample ID: MBLK1_080310A	Method Blank				Run: BAL-4-R_080310B			03/10/08 12:26	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: LCS1_080310A	Laboratory Control Sample				Run: BAL-4-R_080310B			03/10/08 12:26	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	105	90	110			
Sample ID: R08030071-001BMS	Sample Matrix Spike				Run: BAL-4-R_080310B			03/10/08 12:43	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	110	80	120			
Sample ID: R08030071-001BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080310B			03/10/08 12:44	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	114	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080311A-SLDS-TSS-W	
Sample ID: MBLK1_080311A	Method Blank				Run: BAL-4-R_080311A			03/11/08 14:06	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080311A	Laboratory Control Sample				Run: BAL-4-R_080311A			03/11/08 14:06	
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	101	85	115			
Sample ID: R08030091-004CDUP	Sample Duplicate				Run: BAL-4-R_080311A			03/11/08 14:13	
Solids, Total Suspended TSS @ 105 C	410	mg/L	5.0				3.0	20	
Method: A3114 B								Batch: C_SE-3114-080319A	
Sample ID: MBLK	Method Blank				Run: SUB-C98303			03/19/08 11:03	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-48-5	Laboratory Control Sample				Run: SUB-C98303			03/19/08 11:05	
Selenium	0.051	mg/L	0.0010	101	90	110			
Sample ID: R08030091-001A	Sample Matrix Spike				Run: SUB-C98303			03/19/08 11:09	
Selenium	0.051	mg/L	0.0010	99	85	115			
Sample ID: R08030091-001A	Sample Matrix Spike Duplicate				Run: SUB-C98303			03/19/08 11:11	
Selenium	0.052	mg/L	0.0010	101	85	115	1.7	10	
Sample ID: R08030091-001H	Sample Matrix Spike				Run: SUB-C98303			03/19/08 11:31	
Selenium	0.055	mg/L	0.0010	105	85	115			
Sample ID: R08030091-001H	Sample Matrix Spike Duplicate				Run: SUB-C98303			03/19/08 11:33	
Selenium	0.055	mg/L	0.0010	105	85	115	0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV-3114-031908A	
Sample ID: MBLK	Method Blank				Run: SUB-C98302				03/19/08 09:05
Selenium-IV	0.0003	mg/L	6E-05						
Sample ID: 288-40-5	Laboratory Control Sample				Run: SUB-C98302				03/19/08 09:08
Selenium-IV	0.047	mg/L	0.0010	94	90	110			
Sample ID: R08030091-001A	Sample Matrix Spike				Run: SUB-C98302				03/19/08 09:12
Selenium-IV	0.045	mg/L	0.0010	89	85	115			
Sample ID: R08030091-001A	Sample Matrix Spike Duplicate				Run: SUB-C98302				03/19/08 09:14
Selenium-IV	0.049	mg/L	0.0010	96	85	115	7.6	10	
Sample ID: R08030091-001H	Sample Matrix Spike				Run: SUB-C98302				03/19/08 09:35
Selenium-IV	0.041	mg/L	0.0010	81	85	115			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									
Sample ID: R08030091-001H	Sample Matrix Spike Duplicate				Run: SUB-C98302				03/19/08 09:38
Selenium-IV	0.042	mg/L	0.0010	84	85	115	3.8	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.									

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080310-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.21	mg/L	0.0050	104	80	120			
Sample ID: R08030091-001E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	93	80	120			
Sample ID: R08030091-002E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08030091-003E	Sample Duplicate				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.012	mg/L	0.0050				40	10	R
Sample ID: R08030091-003E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	91	80	120			
Sample ID: R08030091-004E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08030091-005E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	93	80	120			
Sample ID: R08030091-006E	Sample Matrix Spike				Run: SPEC1_080310A			03/10/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Method: A4500-H B								Batch: 080312_1_PH-W	
Sample ID: LCS_pH-1_080312	Laboratory Control Sample				Run: PH_COND2-R_080312A			03/12/08 12:46	
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08030091-001CDUP	Sample Duplicate				Run: PH_COND2-R_080312A			03/12/08 12:48	
pH	7.69	s.u.	0.010				0.3	1.25	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-03-14_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080314A			03/14/08 14:45	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080314A			03/14/08 14:46	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080314A			03/14/08 14:47	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: R08030073-004BDUP	Sample Duplicate				Run: TECHAA2-R_080314A			03/14/08 16:17	
Nitrogen, Ammonia as N	23000	mg/L	530				1.5	10	
Sample ID: R08030152-001CMS	Sample Matrix Spike				Run: TECHAA2-R_080314A			03/14/08 16:32	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	104	80	120			
Sample ID: R08030152-001CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080314A			03/14/08 16:33	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	80	120	4.5	10	
Method: A9222 D								Batch: 080310-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080310A			03/10/08 11:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_B_R109010	
Sample ID: MB-SPDIS080410A	Method Blank				Run: SUB-C99497			04/10/08 16:42	
Aluminum	ND	mg/L	0.007						
Barium	0.0003	mg/L	0.0001						
Boron	0.02	mg/L	0.005						
Cadmium	0.0009	mg/L	0.0003						
Calcium	0.04	mg/L	0.009						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.001						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.01						
Manganese	ND	mg/L	0.0002						
Molybdenum	0.008	mg/L	0.008						
Nickel	ND	mg/L	0.001						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.2						
Vanadium	ND	mg/L	0.001						
Zinc	0.001	mg/L	0.0004						
Sample ID: LFB-SPDIS080410A	Laboratory Fortified Blank				Run: SUB-C99497			04/10/08 16:46	
Aluminum	5.1	mg/L	0.10	102	85	115			
Barium	1.0	mg/L	0.10	104	85	115			
Boron	1.0	mg/L	0.10	99	85	115			
Cadmium	0.51	mg/L	0.010	101	85	115			
Calcium	51	mg/L	1.0	103	85	115			
Chromium	1.0	mg/L	0.050	102	85	115			
Copper	0.99	mg/L	0.010	99	85	115			
Iron	5.3	mg/L	0.030	105	85	115			
Magnesium	51	mg/L	1.0	102	85	115			
Manganese	5.0	mg/L	0.010	99	85	115			
Molybdenum	0.99	mg/L	0.10	99	85	115			
Nickel	1.0	mg/L	0.050	104	85	115			
Potassium	52	mg/L	1.5	104	85	115			
Sodium	52	mg/L	1.0	103	85	115			
Vanadium	1.0	mg/L	0.10	102	85	115			
Zinc	1.0	mg/L	0.010	104	85	115			
Sample ID: C08030932-005AMS2	Sample Matrix Spike				Run: SUB-C99497			04/10/08 17:47	
Aluminum	10.2	mg/L	0.10	96	70	130			
Barium	31.2	mg/L	0.10	94	70	130			
Boron	9.27	mg/L	0.10	93	70	130			
Cadmium	9.58	mg/L	0.010	96	70	130			
Chromium	9.52	mg/L	0.010	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_B_R109010	
Sample ID: C08030932-005AMS2	Sample Matrix Spike				Run: SUB-C99497			04/10/08 17:47	
Copper	9.57	mg/L	0.010	96	70	130			
Iron	9.71	mg/L	0.051	97	70	130			
Manganese	9.64	mg/L	0.010	96	70	130			
Molybdenum	9.14	mg/L	0.051	91	70	130			
Nickel	9.73	mg/L	0.010	97	70	130			
Vanadium	9.51	mg/L	0.10	95	70	130			
Zinc	9.86	mg/L	0.010	98	70	130			
Calcium	1130	mg/L	1.0	96	70	130			
Magnesium	501	mg/L	1.0	100	70	130			
Potassium	521	mg/L	31	103	70	130			
Sodium	532	mg/L	10	101	70	130			
Silica	8.50	mg/L	0.22	4	70	130			S
Sample ID: C08030932-005AMSD2	Sample Matrix Spike Duplicate				Run: SUB-C99497			04/10/08 17:51	
Aluminum	10.3	mg/L	0.10	98	70	130	1.4	20	
Barium	31.9	mg/L	0.10	100	70	130	2.1	20	
Boron	9.32	mg/L	0.10	93	70	130	0.5	20	
Cadmium	9.58	mg/L	0.010	96	70	130	0.0	20	
Chromium	9.52	mg/L	0.010	95	70	130	0.0	20	
Copper	9.73	mg/L	0.010	97	70	130	1.7	20	
Iron	9.75	mg/L	0.051	98	70	130	0.4	20	
Manganese	9.68	mg/L	0.010	97	70	130	0.4	20	
Molybdenum	9.32	mg/L	0.051	93	70	130	2.0	20	
Nickel	9.72	mg/L	0.010	97	70	130	0.1	20	
Vanadium	9.60	mg/L	0.10	96	70	130	1.0	20	
Zinc	9.84	mg/L	0.010	98	70	130	0.2	20	
Calcium	1130	mg/L	1.0	96	70	130	0.1	20	
Magnesium	493	mg/L	1.0	99	70	130	1.7	20	
Potassium	508	mg/L	31	100	70	130	2.7	20	
Sodium	522	mg/L	10	99	70	130	1.9	20	
Silica	8.51	mg/L	0.22	4	70	130	0.2	20	S
Sample ID: B08040942-006AMS2	Sample Matrix Spike				Run: SUB-C99497			04/11/08 00:51	
Aluminum	17.9	mg/L	0.10	62	70	130			S
Barium	0.982	mg/L	0.10	96	70	130			
Boron	0.949	mg/L	0.10	95	70	130			
Cadmium	0.523	mg/L	0.0010	94	70	130			
Chromium	0.969	mg/L	0.010	97	70	130			
Copper	1.02	mg/L	0.010	93	70	130			
Iron	5.34	mg/L	0.030	96	70	130			
Manganese	5.97	mg/L	0.010	91	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_B_R109010	
Sample ID: B08040942-006AMS2	Sample Matrix Spike				Run: SUB-C99497			04/11/08 00:51	
Molybdenum	0.830	mg/L	0.0082	83	70	130			
Nickel	1.09	mg/L	0.010	98	70	130			
Vanadium	0.957	mg/L	0.10	96	70	130			
Zinc	1.42	mg/L	0.010	94	70	130			
Calcium	81.6	mg/L	1.0	84	70	130			
Magnesium	55.1	mg/L	1.0	94	70	130			
Potassium	56.3	mg/L	2.0	100	70	130			
Sodium	53.1	mg/L	1.0	99	70	130			
Silica	53.8	mg/L	0.21	77	70	130			
Sample ID: B08040942-006AMSD2	Sample Matrix Spike Duplicate				Run: SUB-C99497			04/11/08 00:55	
Aluminum	18.0	mg/L	0.10	63	70	130	0.4	20	S
Barium	1.000	mg/L	0.10	98	70	130	1.7	20	
Boron	0.950	mg/L	0.10	95	70	130	0.1	20	
Cadmium	0.525	mg/L	0.0010	95	70	130	0.4	20	
Chromium	0.974	mg/L	0.010	97	70	130	0.5	20	
Copper	1.03	mg/L	0.010	94	70	130	1.0	20	
Iron	5.39	mg/L	0.030	97	70	130	0.8	20	
Manganese	6.01	mg/L	0.010	91	70	130	0.7	20	
Molybdenum	0.839	mg/L	0.0082	84	70	130	1.1	20	
Nickel	1.09	mg/L	0.010	98	70	130	0.3	20	
Vanadium	0.966	mg/L	0.10	97	70	130	1.0	20	
Zinc	1.42	mg/L	0.010	93	70	130	0.2	20	
Calcium	82.5	mg/L	1.0	86	70	130	1.1	20	
Magnesium	55.9	mg/L	1.0	96	70	130	1.5	20	
Potassium	57.0	mg/L	2.0	101	70	130	1.3	20	
Sodium	52.9	mg/L	1.0	99	70	130	0.4	20	
Silica	53.5	mg/L	0.21	76	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18083
Sample ID: MB-18083	Method Blank				Run: SUB-C98784				03/28/08 18:05
Uranium	0.0001	mg/L	2E-05						
Sample ID: LCS1-18083	Laboratory Control Sample				Run: SUB-C98784				03/28/08 18:12
Uranium	0.0519	mg/L	0.00030	98	80	120			
Sample ID: C08030621-004AMS	Sample Matrix Spike				Run: SUB-C98784				03/28/08 19:32
Uranium	0.0427	mg/L	0.00030	-53	70	130			S
Sample ID: C08030621-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C98784				03/28/08 19:39
Uranium	0.0748	mg/L	0.00030	-46	70	130	55	20	SR
Sample ID: C08030621-004AMS	Sample Matrix Spike				Run: SUB-C99175				04/03/08 20:44
Uranium	24.4	mg/kg-dry	0.028	102	70	130			
Sample ID: C08030621-004AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99175				04/03/08 20:50
Uranium	24.1	mg/kg-dry	0.029	100	70	130	1.6	20	

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_B_R109072	
Sample ID: LRB	Method Blank				Run: SUB-C99508			04/11/08 15:43	
Arsenic	ND	mg/L	4E-05						
Lead	ND	mg/L	3E-06						
Silver	ND	mg/L	7E-06						
Sodium	ND	mg/L	0.01						
Thorium 232	ND	mg/L	0.001						
Uranium	ND	mg/L	2E-06						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99508			04/11/08 17:18	
Silver	0.0195	mg/L	0.0050	98	85	115			
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99508			04/11/08 15:50	
Arsenic	0.0514	mg/L	0.0050	103	85	115			
Lead	0.0520	mg/L	0.010	104	85	115			
Silver	0.0146	mg/L	0.0050	73	85	115			S
Sodium	48.8	mg/L	0.50	98	85	115			
Thorium 232	0.0516	mg/L	0.010	103	85	115			
Uranium	0.0513	mg/L	0.0010	103	85	115			
Sample ID: B08041011-001AMS	Sample Matrix Spike				Run: SUB-C99508			04/12/08 02:21	
Arsenic	0.0520	mg/L	0.0050	104	70	130			
Lead	0.0521	mg/L	0.010	104	70	130			
Silver	0.0129	mg/L	0.0050	65	70	130			S
Uranium	0.0511	mg/L	0.0010	102	70	130			
Sodium	57.1	mg/L	1.0	99	70	130			
Sample ID: B08041011-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99508			04/12/08 02:28	
Arsenic	0.0507	mg/L	0.0050	101	70	130	2.5	20	
Lead	0.0506	mg/L	0.010	101	70	130	2.9	20	
Silver	0.0147	mg/L	0.0050	74	70	130	13	20	
Uranium	0.0497	mg/L	0.0010	99	70	130	2.9	20	
Sodium	56.6	mg/L	1.0	98	70	130	0.9	20	
Sample ID: B08041306-003BDUP	Sample Duplicate				Run: SUB-C99508			04/12/08 10:42	
Arsenic	0.00122	mg/L	0.0050				0.0	20	
Lead	5.52E-05	mg/L	0.010				0.0	20	
Silver	ND	mg/L	0.0050				0.0	20	
Uranium	0.000717	mg/L	0.0010				0.0	20	
Sodium	3.94	mg/L	1.0				0.8	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R99175
Sample ID: LRB	Method Blank				Run: SUB-C99175				04/03/08 13:10
Arsenic	8E-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	8E-05	mg/L	5E-05						
Mercury	ND	mg/L	8E-05						
Molybdenum	0.00010	mg/L	5E-05						
Nickel	ND	mg/L	0.0007						
Silver	0.002	mg/L	3E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99175				04/03/08 13:17
Arsenic	0.0510	mg/L	0.0010	102	85	115			
Barium	0.0514	mg/L	0.0010	103	85	115			
Cadmium	0.0510	mg/L	0.0010	102	85	115			
Chromium	0.0525	mg/L	0.0010	105	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0524	mg/L	0.0010	105	85	115			
Manganese	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00547	mg/L	0.0010	109	85	115			
Molybdenum	0.0523	mg/L	0.0010	104	85	115			
Nickel	0.0523	mg/L	0.0010	105	85	115			
Silver	0.0192	mg/L	0.0010	85	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Vanadium	0.0528	mg/L	0.0010	106	85	115			
Zinc	0.0522	mg/L	0.0010	104	85	115			
Sample ID: C08030859-001BMS4	Post Digestion Spike				Run: SUB-C99175				04/04/08 01:49
Arsenic	0.0994	mg/L	0.0010	99	70	130			
Barium	0.105	mg/L	0.10	103	70	130			
Cadmium	0.0974	mg/L	0.010	97	70	130			
Chromium	0.0980	mg/L	0.050	98	70	130			
Copper	0.102	mg/L	0.010	96	70	130			
Lead	0.0980	mg/L	0.050	98	70	130			
Manganese	0.0995	mg/L	0.010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R99175
Sample ID: C08030859-001BMS4	Post Digestion Spike				Run: SUB-C99175				04/04/08 01:49
Mercury	0.00982	mg/L	0.0010	98	70	130			
Molybdenum	0.105	mg/L	0.10	104	70	130			
Nickel	0.104	mg/L	0.050	99	70	130			
Silver	0.0255	mg/L	0.010	64	70	130			S
Thorium 232	0.0972	mg/L	0.0010	97	70	130			
Uranium	0.104	mg/L	0.00030	97	70	130			
Vanadium	0.102	mg/L	0.10	102	70	130			
Zinc	0.110	mg/L	0.010	102	70	130			
Sample ID: C08030859-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C99175				04/04/08 01:55
Arsenic	0.0997	mg/L	0.0010	99	70	130	0.3	20	
Barium	0.110	mg/L	0.10	107	70	130	4.5	20	
Cadmium	0.102	mg/L	0.010	102	70	130	5.0	20	
Chromium	0.0988	mg/L	0.050	98	70	130	0.8	20	
Copper	0.100	mg/L	0.010	94	70	130	2.0	20	
Lead	0.100	mg/L	0.050	100	70	130	2.2	20	
Manganese	0.100	mg/L	0.010	96	70	130	0.6	20	
Mercury	0.0102	mg/L	0.0010	102	70	130	3.4	20	
Molybdenum	0.110	mg/L	0.10	110	70	130	5.0	20	
Nickel	0.103	mg/L	0.050	98	70	130	0.8	20	
Silver	0.0276	mg/L	0.010	69	70	130	7.7	20	S
Thorium 232	0.102	mg/L	0.0010	102	70	130	5.2	20	
Uranium	0.108	mg/L	0.00030	101	70	130	3.9	20	
Vanadium	0.102	mg/L	0.10	102	70	130	0.0	20	
Zinc	0.110	mg/L	0.010	102	70	130	0.1	20	
Method: E245.1									Batch: C_B_31544
Sample ID: MB-31544	Method Blank				Run: SUB-C98552				03/24/08 12:04
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31544	Laboratory Fortified Blank				Run: SUB-C98552				03/24/08 12:10
Mercury	0.0020	mg/L	0.0010	99	85	115			
Sample ID: B08031430-001AMS	Sample Matrix Spike				Run: SUB-C98552				03/24/08 12:22
Mercury	0.0099	mg/L	0.0010	98	70	130			
Sample ID: B08031430-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C98552				03/24/08 12:25
Mercury	0.0098	mg/L	0.0010	98	70	130	1.0	30	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-C98552	
Sample ID: QCS	Initial Calibration Verification Standard							03/24/08 10:39	
Mercury	0.0018	mg/L	0.0010	92	90	110			
Method: E300.0								Batch: R33791	
Sample ID: LFB0803115548-3	Laboratory Fortified Blank				Run: DIONEX_080312A			03/12/08 08:50	
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0803115548-4	Laboratory Fortified Blank				Run: DIONEX_080312A			03/12/08 09:06	
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	1.92	mg/L	0.10	96	90	110			
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	90	110			
Sulfate	13.8	mg/L	1.0	92	90	110			
Sample ID: R08030091-001CMS	Sample Matrix Spike				Run: DIONEX_080312A			03/12/08 09:37	
Chloride	446	mg/L	5.4	86	80	120			
Fluoride	103	mg/L	0.56	103	80	120			
Nitrogen, Nitrate as N	119	mg/L	1.3	95	80	120			
Sulfate	1120	mg/L	3.4	88	80	120			
Sample ID: R08030091-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080312A			03/12/08 09:53	
Chloride	433	mg/L	5.4	80	80	120	3.1	10	
Fluoride	97.8	mg/L	0.56	98	80	120	5.5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	5.5	10	
Sulfate	1080	mg/L	3.4	83	80	120	3.5	10	
Sample ID: R08030091-006CMS	Sample Matrix Spike				Run: DIONEX_080312A			03/12/08 13:20	
Chloride	4.87	mg/L	0.50	92	80	120			
Fluoride	2.03	mg/L	0.10	101	80	120			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	80	120			
Sulfate	13.8	mg/L	1.0	92	80	120			
Sample ID: R08030091-006CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080312A			03/12/08 13:36	
Chloride	4.96	mg/L	0.50	94	80	120	1.8	10	
Fluoride	2.08	mg/L	0.10	104	80	120	2.4	10	
Nitrogen, Nitrate as N	2.35	mg/L	0.10	94	80	120	1.7	10	
Sulfate	14.1	mg/L	1.0	94	80	120	2.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: C_GrAB-0417
Sample ID: MB-GrAB-0417	Method Blank				Run: SUB-C99140				04/02/08 04:03
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0417	Laboratory Control Sample				Run: SUB-C99140				04/02/08 04:03
Gross Alpha	230	pCi/L		95	70	130			
Gross Beta	220	pCi/L		101	70	130			
Sample ID: C08030704-001CMS	Sample Matrix Spike				Run: SUB-C99140				04/02/08 04:03
Gross Beta	93.7	pCi/L		99	70	130			
Sample ID: C08030704-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C99140				04/02/08 04:03
Gross Beta	0.178	pCi/L			70	130	200	16.9	SR
- Beta MSD failed at bench level. MS and LCS are acceptable so the batch is approved.									
Sample ID: R08030091-004I	Sample Duplicate				Run: SUB-C99140				04/02/08 20:04
Gross Alpha	5.73	pCi/L					12	157.2	U
Gross Beta	3.72	pCi/L					25	168.8	U
Gross Beta MDC	5.60	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
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

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R98315
Sample ID: LCS-R98315	Laboratory Control Sample				Run: SUB-C98315				03/14/08 16:57
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1500	pCi/L	20	105	70	130			
Potassium 40	6900	pCi/L	20	103	70	130			
Sample ID: MB-R98315	Method Blank				Run: SUB-C98315				03/14/08 16:57
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							
Method: E903.0									Batch: C_18083
Sample ID: LCS-18083	Laboratory Control Sample				Run: SUB-C98992				04/01/08 15:03
Radium 226	11	pCi/L		82	70	130			
Sample ID: MB-18083	Method Blank				Run: SUB-C98992				04/01/08 15:03
Radium 226	-1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_18485
Sample ID: LCS-18485	Laboratory Control Sample				Run: SUB-C101253				05/16/08 09:52
Radium 226	14	pCi/L		105	70	130			
Sample ID: MB-18485	Method Blank				Run: SUB-C101253				05/16/08 09:52
Radium 226	-2	pCi/L							U
Sample ID: C08041197-014AMS	Sample Matrix Spike				Run: SUB-C101253				05/16/08 09:52
Radium 226	100	pCi/L		123	70	130			
Sample ID: C08041197-014AMSD	Sample Matrix Spike Duplicate				Run: SUB-C101253				05/16/08 09:52
Radium 226	110	pCi/L		129	70	130	3.0	24.8	
Method: E903.0									Batch: C_RA226-2680
Sample ID: C08030639-001AMS	Sample Matrix Spike				Run: SUB-C98820				03/26/08 11:40
Radium 226	9.6	pCi/L		87	70	130			
Sample ID: C08030639-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C98820				03/26/08 11:40
Radium 226	9.5	pCi/L		84	70	130	1.8	22.7	
Sample ID: MB-RA226-2680	Method Blank				Run: SUB-C98820				03/26/08 17:11
Radium 226	-0.1	pCi/L							
Sample ID: LCS-RA226-2680	Laboratory Control Sample				Run: SUB-C98820				03/26/08 17:11
Radium 226	6.3	pCi/L		101	70	130			
Method: E907.0									Batch: C_18083
Sample ID: R08030091-001K	Sample Matrix Spike				Run: SUB-C99086				03/26/08 15:15
Thorium 230	23.1	pCi/L	0.20	94	70	130			
Sample ID: R08030091-001K	Sample Matrix Spike Duplicate				Run: SUB-C99086				03/26/08 15:15
Thorium 230	23.8	pCi/L	0.20	97	70	130	2.8	30	
Sample ID: LCS-18083	Laboratory Control Sample				Run: SUB-C99086				03/26/08 15:15
Thorium 230	46.1	pCi/g-dry	0.10	98	70	130			
Sample ID: MB-18083	Method Blank				Run: SUB-C99086				03/26/08 15:15
Thorium 230	ND	pCi/g-dry							

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/29/08
Work Order: R08030091

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R99362
Sample ID: LCS-R99362	Laboratory Control Sample				Run: SUB-C99362				03/31/08 14:00
Thorium 230	8.20	pCi/L	0.20	116	70	130			
Sample ID: C08030555-001HMS	Sample Matrix Spike				Run: SUB-C99362				03/31/08 14:00
Thorium 230	13.7	pCi/L	0.20	121	70	130			
Sample ID: C08030555-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C99362				03/31/08 14:00
Thorium 230	13.2	pCi/L	0.20	116	70	130	3.7	30	
Sample ID: MB-R99362	Method Blank				Run: SUB-C99362				03/31/08 14:00
Thorium 230	0.1	pCi/L							
Method: E907.0									Batch: C_R99579
Sample ID: LCS-R99579	Laboratory Control Sample				Run: SUB-C99579				04/04/08 15:30
Thorium 230	6.74	pCi/L	0.20	95	70	130			
Sample ID: C08031118-033AMS	Sample Matrix Spike				Run: SUB-C99579				04/04/08 15:30
Thorium 230	9.50	pCi/L	0.20	96	70	130			
Sample ID: C08031118-033AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99579				04/04/08 15:30
Thorium 230	10.3	pCi/L	0.20	104	70	130	7.9	30	
Sample ID: MB-R99579	Method Blank				Run: SUB-C99579				04/04/08 15:30
Thorium 230	0.2	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
Respec	Power Tech Dewey Burdock	State:	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
Respec	cory.foreman@respec.com		Eric Krantz
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
Respec			

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED: As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 4.6 °C

On Ice: (Yes) No

Custody Seal Y N

Intact Y N

Signature Match Y N

	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	Comments	LABORATORY USE ONLY
1	Dew Burd CHR 05	3/9/07	0900	W		Set 14	R0803009-001
2	Dew Burd BVC 04	3/9/07	11:05	W		Set 6	002
3	Dew Burd BVC 04	3/9/07	11:15	W		Set 15	003
4	Dew Burd CHR 01	3/9/07	14:15	W		Set 2	004
5	Dew Burd BVC 01	3/9/07	15:15	W		Set 5	005
6	Dew Burd BLK 01	3/9/07	17:35	W		Set 11	006
7							
8							
9							
10							

A11 2008 EDT

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	3/10/08 09:15				
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Linda Larson	Date/Time: 3/10/08 0915	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08030252 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 3/25/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08030252-001	DewBurd SUB11	03/24/08 11:10	03/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Bacteria, Fecal Coliform
					Conductivity
					Chromium, Hexavalent
					Chromium, Trivalent
					Mercury, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium-VI, Total
					Anions by Ion Chromatography
					Nitrogen, Ammonia
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, As/Se by Hydride
					Dissolved Filtration
					Gross Alpha, Gross Beta
					Gross Gamma
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Thorium, Isotopic
					Sodium Adsorption Ratio
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended

R08030252-002	DewBurd SUB07	03/24/08 11:55 03/25/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08030252-003	DewBurd SUB01	03/24/08 12:45 03/25/08	Aqueous	Same As Above
R08030252-004	DewBurd SUB09	03/24/08 16:25 03/25/08	Aqueous	Same As Above
R08030252-005	DewBurd SUB10	03/24/08 17:10 03/25/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Linda Kuzm

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-001
Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
Collection Date: 03/24/08 11:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	18	mg/L		5		1	A2320 B	03/28/08 13:20/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:20/sn
Bicarbonate as HCO3	22	mg/L		5		1	A2320 B	03/28/08 13:20/sn
Calcium	6.3	mg/L		0.5		2	E200.7	04/10/08 12:57/eli-c
Chloride	1	mg/L		1		1	E300.0	03/26/08 12:48/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/26/08 12:48/jmh
Magnesium	1.9	mg/L		0.5		2	E200.7	04/10/08 12:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 12:48/jmh
Potassium	4	mg/L		1		2	E200.7	04/10/08 12:57/eli-c
Silica	0.8	mg/L		0.5		2	E200.7	04/10/08 12:57/eli-c
Sodium	2.7	mg/L		0.5		2	E200.7	04/10/08 12:57/eli-c
Sulfate	12	mg/L		1		1	E300.0	03/26/08 12:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	68.7	umhos/cm		5.0		1	A2510 B	03/26/08 11:10/jmh
pH	6.68	s.u.		0.01		1	A4500-H B	03/26/08 15:35/jmh
Sodium Adsorption Ratio (SAR)	0.24	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	77	mg/L		5		1	D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	90	mg/L		5		1	A2540 C	03/31/08 08:36/mb
Solids, Total Suspended TSS @ 105 C	61	mg/L		5		1	A2540 D	03/28/08 08:04/mb
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	04/10/08 12:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/13/08 12:20/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 12:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:20/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 12:57/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:20/eli-c
Iron	1.70	mg/L		0.03		2	E200.7	04/10/08 12:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:20/eli-c
Manganese	0.57	mg/L		0.01		2	E200.7	04/10/08 12:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:20/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 12:57/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-001
Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
Collection Date: 03/24/08 11:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/13/08 12:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:20/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 12:20/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 12:57/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/10/08 12:57/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	04/13/08 13:41/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	04/13/08 13:41/eli-c
METALS - TOTAL								
Aluminum	1.9	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Arsenic	0.004	mg/L		0.001		1	E200.8	04/10/08 19:07/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:08/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/10/08 19:07/eli-c
Iron	15.7	mg/L		0.03		2	E200.7	04/09/08 16:08/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	04/10/08 19:07/eli-c
Manganese	0.66	mg/L		0.01		2	E200.7	04/09/08 16:08/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/10/08 19:07/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:07/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/10/08 19:07/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:08/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	04/10/08 19:07/eli-c
Calcium	6.7	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Magnesium	2.1	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Potassium	5.2	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Silica	6.1	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
Sodium	1.9	mg/L		0.5		2	E200.7	04/09/08 16:08/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-001
Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
Collection Date: 03/24/08 11:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:27/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:43/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	04/19/08 17:42/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/19/08 17:42/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 17:42/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.8	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	04/13/08 07:29/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	0.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	5.8	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.9	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-001
Client Sample ID: DewBurd SUB11

Report Date: 06/24/08
Collection Date: 03/24/08 11:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:00/eli-b
DATA QUALITY								
A/C Balance (± 5)	10.9					1	A1030 E	06/18/08 00:00/ADM
Anions	0.660	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	0.830	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	42.0	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	2.14					1	A1030 E	06/18/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-002
Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
Collection Date: 03/24/08 11:55
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	03/28/08 13:21/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:21/sn
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	03/28/08 13:21/sn
Calcium	27.6	mg/L		0.5		2	E200.7	04/10/08 13:00/eli-c
Chloride	4	mg/L		1		1	E300.0	03/26/08 13:19/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/26/08 13:19/jmh
Magnesium	16.4	mg/L		0.5		2	E200.7	04/10/08 13:00/eli-c
Nitrogen, Ammonia as N	2.4	mg/L		0.1		4	A4500-NH3 G	03/28/08 14:32/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	03/26/08 13:19/jmh
Potassium	14	mg/L		1		2	E200.7	04/10/08 13:00/eli-c
Silica	1.4	mg/L		0.5		2	E200.7	04/10/08 13:00/eli-c
Sodium	3.4	mg/L		0.5		2	E200.7	04/10/08 13:00/eli-c
Sulfate	183	mg/L		1		1	E300.0	03/26/08 13:19/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	402	umhos/cm		5.0		1	A2510 B	03/26/08 11:11/jmh
pH	4.16	s.u.		0.01		1	A4500-H B	03/26/08 15:36/jmh
Sodium Adsorption Ratio (SAR)	0.13	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	220	mg/L		5		1	A2540 C	03/31/08 08:37/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	03/28/08 08:05/mb
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	04/10/08 13:00/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/13/08 12:27/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:27/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 13:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:27/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:27/eli-c
Iron	1.58	mg/L		0.03		2	E200.7	04/10/08 13:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:27/eli-c
Manganese	2.85	mg/L		0.01		2	E200.7	04/10/08 13:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:27/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:00/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-002
Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
Collection Date: 03/24/08 11:55
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.06	mg/L		0.01		1	E200.8	04/13/08 12:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:27/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 12:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 13:00/eli-c
Zinc	0.06	mg/L		0.01		2	E200.7	04/10/08 13:00/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	04/13/08 13:47/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 13:47/eli-c
METALS - TOTAL								
Aluminum	0.4	mg/L	B	0.1		2	E200.7	04/09/08 16:15/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/10/08 19:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/09/08 16:15/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/09/08 16:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:15/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	ND	mg/L		0.01		2	E200.7	04/09/08 16:15/eli-c
Iron	1.67	mg/L		0.03		2	E200.7	04/09/08 16:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/10/08 19:13/eli-c
Manganese	2.76	mg/L		0.01		2	E200.7	04/09/08 16:15/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:15/eli-c
Nickel	0.07	mg/L		0.05		1	E200.8	04/10/08 19:13/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:13/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:13/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	04/10/08 19:13/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:15/eli-c
Zinc	0.08	mg/L		0.01		1	E200.8	04/10/08 19:13/eli-c
Calcium	27.0	mg/L		0.5		2	E200.7	04/09/08 16:15/eli-c
Magnesium	16.0	mg/L		0.5		2	E200.7	04/09/08 16:15/eli-c
Potassium	13.7	mg/L		0.5		2	E200.7	04/09/08 16:15/eli-c
Silica	1.4	mg/L		0.5		2	E200.7	04/09/08 16:15/eli-c
Sodium	3.5	mg/L		0.5		2	E200.7	04/09/08 16:15/eli-c
METALS - DISSOLVED - SPECIATED								

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
B - The analyte was detected in the method blank.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-002
Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
Collection Date: 03/24/08 11:55
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:45/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:46/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.4	pCi/L				1	E903.0	04/19/08 19:12/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/19/08 19:12/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 19:12/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L	U			1	E903.0	04/13/08 09:00/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 09:00/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	04/13/08 09:00/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	1.2	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	13.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.8	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-002
Client Sample ID: DewBurd SUB07

Report Date: 06/24/08
Collection Date: 03/24/08 11:55
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	-3.45					1	A1030 E	06/18/08 00:00/ADM
Anions	3.95	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	3.69	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	254	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.860					1	A1030 E	06/18/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-003
Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
Collection Date: 03/24/08 12:45
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	38	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Bicarbonate as HCO3	46	mg/L		5		1	A2320 B	03/28/08 13:25/sn
Calcium	21.0	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Chloride	3	mg/L		1		1	E300.0	03/26/08 13:50/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	03/26/08 13:50/jmh
Magnesium	4.4	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:11/jmh
Nitrogen, Nitrate as N	1.2	mg/L		0.1		1	E300.0	03/26/08 13:50/jmh
Potassium	4	mg/L		1		2	E200.7	04/10/08 13:04/eli-c
Silica	8.6	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Sodium	18.9	mg/L		0.5		2	E200.7	04/10/08 13:04/eli-c
Sulfate	59	mg/L		1		1	E300.0	03/26/08 13:50/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	230	umhos/cm		5.0		1	A2510 B	03/26/08 11:13/jmh
pH	7.73	s.u.		0.01		1	A4500-H B	03/26/08 15:38/jmh
Sodium Adsorption Ratio (SAR)	0.98	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	198	mg/L		5		1	D3977	03/25/08 10:41/jmh
Solids, Total Dissolved TDS @ 180 C	300	mg/L		5		1	A2540 C	06/17/08 09:48/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	03/28/08 08:06/mb
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:33/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:33/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:04/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:33/eli-c
Iron	0.15	mg/L		0.03		2	E200.7	04/10/08 13:04/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7	04/10/08 13:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-003
Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
Collection Date: 03/24/08 12:45
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/13/08 12:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:33/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:33/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	04/13/08 12:33/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 13:04/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/10/08 13:04/eli-c
METALS - SUSPENDED								
Thorium 232	0.002	mg/L		0.001		1	E200.8	04/13/08 13:54/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	04/13/08 13:54/eli-c
METALS - TOTAL								
Aluminum	22.4	mg/L		0.1		2	E200.7	04/09/08 16:20/eli-c
Arsenic	0.005	mg/L		0.001		1	E200.8	04/10/08 19:20/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	04/09/08 16:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/09/08 16:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:20/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:20/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	0.02	mg/L		0.01		1	E200.8	04/10/08 19:20/eli-c
Iron	15.1	mg/L		0.03		2	E200.7	04/09/08 16:20/eli-c
Lead	0.009	mg/L		0.001		1	E200.8	04/10/08 19:20/eli-c
Manganese	0.18	mg/L		0.01		2	E200.7	04/09/08 16:20/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:20/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/10/08 19:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:20/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:20/eli-c
Uranium	0.0011	mg/L		0.0003		1	E200.8	04/10/08 19:20/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:20/eli-c
Zinc	0.06	mg/L		0.01		1	E200.8	04/10/08 19:20/eli-c
Calcium	25.1	mg/L		0.5		2	E200.7	04/09/08 16:20/eli-c
Magnesium	8.4	mg/L		0.5		2	E200.7	04/09/08 16:20/eli-c
Potassium	8.3	mg/L		0.5		2	E200.7	04/09/08 16:20/eli-c
Silica	104	mg/L		0.5		2	E200.7	04/09/08 16:20/eli-c
Sodium	17.8	mg/L		0.5		2	E200.7	04/09/08 16:20/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-003
Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
Collection Date: 03/24/08 12:45
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:32/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	04/01/08 13:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:48/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 20:42/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	04/13/08 10:30/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.9	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	5.1	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.2	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-003
Client Sample ID: DewBurd SUB01

Report Date: 06/24/08
Collection Date: 03/24/08 12:45
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/10/08 14:04/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.36					1	A1030 E	06/18/08 00:00/ADM
Anions	2.17	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	2.37	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	162	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.86					1	A1030 E	06/18/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	28	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Bicarbonate as HCO3	34	mg/L		5		1	A2320 B	03/28/08 13:31/sn
Calcium	18.2	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Chloride	8	mg/L		1		1	E300.0	03/26/08 14:21/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	03/26/08 14:21/jmh
Magnesium	11.1	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:12/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 14:21/jmh
Potassium	15	mg/L		1		2	E200.7	04/10/08 13:07/eli-c
Silica	1.6	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Sodium	13.7	mg/L		0.5		2	E200.7	04/10/08 13:07/eli-c
Sulfate	95	mg/L		1		1	E300.0	03/26/08 14:21/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	297	umhos/cm		5.0		1	A2510 B	03/26/08 11:14/jmh
pH	8.42	s.u.		0.01		1	A4500-H B	03/26/08 15:39/jmh
Sodium Adsorption Ratio (SAR)	0.62	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	119	mg/L		5		1	D3977	03/25/08 10:42/jmh
Solids, Total Dissolved TDS @ 180 C	250	mg/L		5		1	A2540 C	03/31/08 08:40/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	03/28/08 08:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:40/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:40/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:40/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	04/10/08 13:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	04/10/08 13:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:40/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/13/08 12:40/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:40/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:40/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	04/13/08 12:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 13:07/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/10/08 13:07/eli-c
METALS - SUSPENDED								
Thorium 232	0.001	mg/L		0.001		1	E200.8	04/13/08 14:00/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	04/13/08 14:00/eli-c
METALS - TOTAL								
Aluminum	4.8	mg/L		0.1		2	E200.7	04/09/08 16:23/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/10/08 19:27/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/09/08 16:23/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/09/08 16:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:27/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:23/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	0.01	mg/L		0.01		1	E200.8	04/10/08 19:27/eli-c
Iron	3.60	mg/L		0.03		2	E200.7	04/09/08 16:23/eli-c
Lead	0.004	mg/L		0.001		1	E200.8	04/10/08 19:27/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7	04/09/08 16:23/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:23/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/10/08 19:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:27/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:27/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8	04/10/08 19:27/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:23/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	04/10/08 19:27/eli-c
Calcium	19.1	mg/L		0.5		2	E200.7	04/09/08 16:23/eli-c
Magnesium	12.2	mg/L		0.5		2	E200.7	04/09/08 16:23/eli-c
Potassium	17.0	mg/L		0.5		2	E200.7	04/09/08 16:23/eli-c
Silica	19.5	mg/L		0.5		2	E200.7	04/09/08 16:23/eli-c
Sodium	13.4	mg/L		0.5		2	E200.7	04/09/08 16:23/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:38/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	04/01/08 13:54/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.03	pCi/L	U			1	E903.0	04/19/08 22:13/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/19/08 22:13/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 22:13/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L	U			1	E903.0	04/13/08 12:00/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/13/08 12:00/eli-c
Radium 226 MDC	0.7	pCi/L				1	E903.0	04/13/08 12:00/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	1.2	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	0.8	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	14.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	2.4	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.5	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-004
Client Sample ID: DewBurd SUB09

Report Date: 06/24/08
Collection Date: 03/24/08 16:25
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/18/08 14:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	0.0400					1	A1030 E	06/18/08 00:00/ADM
Anions	2.82	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	2.82	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	184	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.37					1	A1030 E	06/18/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-005
Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
Collection Date: 03/24/08 17:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	4	CFU/100ml	D	4		4	A9222 D	03/25/08 11:10/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	54	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Carbonate as CO3	ND	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Bicarbonate as HCO3	66	mg/L		5		1	A2320 B	03/28/08 13:33/sn
Calcium	248	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Chloride	32	mg/L	D	5		50	E300.0	03/26/08 15:07/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	03/26/08 15:53/jmh
Magnesium	103	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	03/28/08 14:14/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	03/26/08 15:53/jmh
Potassium	41	mg/L		1		2	E200.7	04/10/08 13:17/eli-c
Silica	ND	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Sodium	208	mg/L		0.5		2	E200.7	04/10/08 13:17/eli-c
Sulfate	1210	mg/L	D	3		50	E300.0	03/26/08 15:07/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2490	umhos/cm		5.0		1	A2510 B	03/26/08 11:15/jmh
pH	8.19	s.u.		0.01		1	A4500-H B	03/26/08 15:40/jmh
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.10		1	Calculation	05/13/08 15:28/ADM
Solids, Suspended Sediment SSC @ 105 C	195	mg/L		5		1	D3977	03/25/08 10:42/jmh
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	03/31/08 08:41/mb
Solids, Total Suspended TSS @ 105 C	250	mg/L		5		1	A2540 D	03/28/08 08:07/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Barium	ND	mg/L		0.1		1	E200.8	04/13/08 12:47/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/13/08 12:47/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/10/08 13:17/eli-c
Copper	ND	mg/L		0.01		1	E200.8	04/13/08 12:47/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/10/08 13:17/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Manganese	0.02	mg/L		0.01		2	E200.7	04/10/08 13:17/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	04/13/08 12:47/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c

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.
D - RL increased due to sample matrix interference.

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-005
Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
Collection Date: 03/24/08 17:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	04/13/08 12:47/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/13/08 12:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/13/08 12:47/eli-c
Uranium	0.0027	mg/L		0.0003		1	E200.8	04/13/08 12:47/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/10/08 13:17/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/10/08 13:17/eli-c
METALS - SUSPENDED								
Thorium 232	0.003	mg/L		0.001		1	E200.8	04/13/08 14:07/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	04/13/08 14:07/eli-c
METALS - TOTAL								
Aluminum	3.0	mg/L		0.1		2	E200.7	04/09/08 16:26/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/10/08 19:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/09/08 16:26/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/09/08 16:26/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/10/08 19:54/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/09/08 16:26/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.01		2	A3500-Cr B	03/21/08 12:07/sn
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/16/08 00:00/ADM
Copper	0.01	mg/L		0.01		1	E200.8	04/10/08 19:54/eli-c
Iron	2.89	mg/L		0.03		2	E200.7	04/09/08 16:26/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	04/10/08 19:54/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	04/09/08 16:26/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/09/08 16:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/10/08 19:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/10/08 19:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/10/08 19:54/eli-c
Uranium	0.0033	mg/L		0.0003		1	E200.8	04/10/08 19:54/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/09/08 16:26/eli-c
Zinc	0.01	mg/L		0.01		1	E200.8	04/10/08 19:54/eli-c
Calcium	255	mg/L		0.5		2	E200.7	04/09/08 16:26/eli-c
Magnesium	105	mg/L		0.5		2	E200.7	04/09/08 16:26/eli-c
Potassium	42.3	mg/L		0.5		2	E200.7	04/09/08 16:26/eli-c
Silica	10.4	mg/L		0.5		2	E200.7	04/09/08 16:26/eli-c
Sodium	209	mg/L		0.5		2	E200.7	04/09/08 16:26/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-005
Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
Collection Date: 03/24/08 17:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:41/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/01/08 13:56/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/01/08 09:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/01/08 14:49/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	04/19/08 23:43/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	04/19/08 23:43/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	04/19/08 23:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	03/31/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	03/31/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.1	pCi/L				1	E903.0	04/13/08 13:30/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/13/08 13:30/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	04/13/08 13:30/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	04/02/08 15:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/02/08 15:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	9.0	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha precision (±)	4.8	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Alpha MDC	6.7	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta	36.5	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta precision (±)	5.6	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Beta MDC	8.3	pCi/L				1	E900.0	04/09/08 12:08/eli-c
Gross Gamma	ND	pCi/L		20.0		1	E901.1	04/04/08 16:45/eli-c
Gross Gamma precision (±)	ND	pCi/L				1	E901.1	04/04/08 16:45/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.2	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	04/20/08 17:48/eli-c
Thorium 230	0.6	pCi/L		0.2		1	E907.0	04/20/08 17:48/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/20/08 17:48/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08030252-005
Client Sample ID: DewBurd SUB10

Report Date: 06/24/08
Collection Date: 03/24/08 17:10
Date Received: 03/25/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	04/11/08 08:19/eli-b
DATA QUALITY								
A/C Balance (± 5)	6.52					1	A1030 E	06/18/08 00:00/ADM
Anions	27.1	meq/L				1	A1030 E	06/18/08 00:00/ADM
Cations	30.9	meq/L				1	A1030 E	06/18/08 00:00/ADM
Solids, Total Dissolved Calculated	1870	mg/L				1	A1030 E	06/18/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.10					1	A1030 E	06/18/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080328A-ALK-SEL-W	
Sample ID: MBLK1_080328A	Method Blank				Run: PH_COND1-R_080328A			03/28/08 11:41	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: LCS1_080328A	Laboratory Control Sample				Run: PH_COND1-R_080328A			03/28/08 11:46	
Alkalinity, Total as CaCO3	1010	mg/L	5.0	101	90	110			
Sample ID: R08030251-004BMS	Sample Matrix Spike				Run: PH_COND1-R_080328A			03/28/08 13:15	
Alkalinity, Total as CaCO3	110	mg/L	5.0	104	80	120			
Sample ID: R08030251-004BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080328A			03/28/08 13:16	
Alkalinity, Total as CaCO3	110	mg/L	5.0	104	80	120	0.0	10	
Method: A2510 B								Batch: 080326_1_COND-PROBE-W	
Sample ID: LCS1-1_080326	Laboratory Control Sample				Run: PH_COND2-R_080326A			03/26/08 11:04	
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_080326	Laboratory Control Sample				Run: PH_COND2-R_080326A			03/26/08 11:05	
Conductivity @ 25 C	4700	umhos/cm	5.0	94	90	110			
Sample ID: LCS_COND-1_080326	Laboratory Control Sample				Run: PH_COND2-R_080326A			03/26/08 11:05	
Conductivity @ 25 C	1410	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080326	Method Blank				Run: PH_COND2-R_080326A			03/26/08 11:06	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08030228-001ADUP	Sample Duplicate				Run: PH_COND2-R_080326A			03/26/08 11:08	
Conductivity @ 25 C	3490	umhos/cm	5.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 080331A-SLDS-TDS-W	
Sample ID: LCS1_080331A	Laboratory Control Sample				Run: BAL-4-R_080331A			03/31/08 08:28	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	100	90	110			
Sample ID: MBLK1_080331A	Method Blank				Run: BAL-4-R_080331A			03/31/08 08:30	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08030251-001BMS	Sample Matrix Spike				Run: BAL-4-R_080331A			03/31/08 08:33	
Solids, Total Dissolved TDS @ 180 C	1700	mg/L	5.0	110	80	120			
Sample ID: R08030251-001BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080331A			03/31/08 08:34	
Solids, Total Dissolved TDS @ 180 C	1700	mg/L	5.0	114	80	120	0.5	10	
Sample ID: R08030253-002AMS	Sample Matrix Spike				Run: BAL-4-R_080331A			03/31/08 08:44	
Solids, Total Dissolved TDS @ 180 C	2300	mg/L	5.0	106	80	120			
Sample ID: R08030253-002AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080331A			03/31/08 08:44	
Solids, Total Dissolved TDS @ 180 C	2300	mg/L	5.0	117	80	120	1.0	10	
Method: A2540 D								Batch: 080328A-SLDS-TSS-W	
Sample ID: MBLK1_080328A	Method Blank				Run: BAL-4-R_080328A			03/28/08 07:57	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: LCS1_080328A	Laboratory Control Sample				Run: BAL-4-R_080328A			03/28/08 07:57	
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	91	85	115			
Method: A3114 B								Batch: C_SE-3114-080401B	
Sample ID: MBLK	Method Blank				Run: SUB-C98917			04/01/08 13:12	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-48-5	Laboratory Control Sample				Run: SUB-C98917			04/01/08 13:14	
Selenium	0.050	mg/L	0.0010	100	90	110			
Sample ID: C08031120-001EMS	Sample Matrix Spike				Run: SUB-C98917			04/01/08 13:21	
Selenium	0.054	mg/L	0.0010	108	85	115			
Sample ID: C08031120-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C98917			04/01/08 13:23	
Selenium	0.054	mg/L	0.0010	107	85	115	0.7	10	
Sample ID: R08030252-003H	Sample Matrix Spike				Run: SUB-C98917			04/01/08 13:49	
Selenium	0.054	mg/L	0.0010	106	85	115			
Sample ID: R08030252-003H	Sample Matrix Spike Duplicate				Run: SUB-C98917			04/01/08 13:51	
Selenium	0.053	mg/L	0.0010	105	85	115	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV-3114-080401	
Sample ID: MBLK	Method Blank				Run: SUB-C98894			04/01/08 09:16	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-48-5	Laboratory Control Sample				Run: SUB-C98894			04/01/08 09:18	
Selenium-IV	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08031120-001EMS	Sample Matrix Spike				Run: SUB-C98894			04/01/08 09:24	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: C08031120-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C98894			04/01/08 09:27	
Selenium-IV	0.045	mg/L	0.0010	91	85	115	1.1	10	
Method: A3500-Cr B								Batch: 080211A-CR-HEX-W	
Sample ID: MBLK1_080211A	Method Blank				Run: SPEC1_080325A			03/19/08 12:07	
Chromium, Hexavalent	0.007	mg/L	0.005						
Sample ID: LCS1_080211A	Laboratory Control Sample				Run: SPEC1_080325A			03/20/08 12:07	
Chromium, Hexavalent	0.18	mg/L	0.0050	88	80	120			
Sample ID: R08030252-001EMS	Sample Matrix Spike				Run: SPEC1_080325A			03/22/08 12:07	
Chromium, Hexavalent	0.19	mg/L	0.010	97	80	120			
Sample ID: R08030252-002EMS	Sample Matrix Spike				Run: SPEC1_080325A			03/22/08 12:07	
Chromium, Hexavalent	0.16	mg/L	0.050	82	80	120			
Sample ID: R08030252-003EMS	Sample Matrix Spike				Run: SPEC1_080325A			03/22/08 12:07	
Chromium, Hexavalent	0.21	mg/L	0.010	107	80	120			
Sample ID: R08030252-004EMS	Sample Matrix Spike				Run: SPEC1_080325A			03/22/08 12:07	
Chromium, Hexavalent	0.20	mg/L	0.010	100	80	120			
Sample ID: R08030252-005EMS	Sample Matrix Spike				Run: SPEC1_080325A			03/22/08 12:07	
Chromium, Hexavalent	0.21	mg/L	0.010	105	80	120			
Method: A4500-H B								Batch: 080326_1_PH-W	
Sample ID: LCS_pH-1_080326	Laboratory Control Sample				Run: PH_COND2-R_080326B			03/26/08 15:31	
pH	6.94	s.u.	0.010	101	98.55	101.45			
Sample ID: R08030252-001CDUP	Sample Duplicate				Run: PH_COND2-R_080326B			03/26/08 15:35	
pH	6.69	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-03-28_2_NH3_01	
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080328A			03/28/08 12:26	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080328A			03/28/08 12:27	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	90	90	110			
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080328A			03/28/08 12:37	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: R08030251-003CMS	Sample Matrix Spike				Run: TECHAA2-R_080328A			03/28/08 14:05	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	80	120			
Sample ID: R08030253-002BMS	Sample Matrix Spike				Run: TECHAA2-R_080328A			03/28/08 14:19	
Nitrogen, Ammonia as N	0.46	mg/L	0.10	86	80	120			
Sample ID: R08030253-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080328A			03/28/08 14:21	
Nitrogen, Ammonia as N	0.47	mg/L	0.10	91	80	120	2.4	10	
Method: A9222 D								Batch: 080325-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080325A			03/25/08 08:45	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18166
Sample ID: MB-18166	Method Blank				Run: SUB-C99401				04/09/08 15:00
Aluminum	0.1	mg/L	0.0007						
Barium	ND	mg/L	0.004						
Boron	ND	mg/L	0.006						
Chromium	ND	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Manganese	ND	mg/L	0.0008						
Molybdenum	ND	mg/L	0.01						
Vanadium	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	ND	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	ND	mg/L	0.1						
Sample ID: LCS-18166	Laboratory Control Sample				Run: SUB-C99401				04/09/08 15:04
Aluminum	0.580	mg/L	0.10	116	85	115			
Barium	0.498	mg/L	0.10	100	85	115			
Boron	0.496	mg/L	0.10	99	85	115			
Chromium	0.508	mg/L	0.050	102	85	115			
Copper	0.484	mg/L	0.010	97	85	115			
Iron	0.508	mg/L	0.030	102	85	115			
Manganese	0.487	mg/L	0.010	97	85	115			
Molybdenum	0.493	mg/L	0.10	99	85	115			
Vanadium	0.517	mg/L	0.10	103	85	115			
Calcium	52.8	mg/L	1.0	106	85	115			
Magnesium	52.8	mg/L	1.0	106	85	115			
Potassium	49.8	mg/L	1.0	100	85	115			
Silica	0.553	mg/L	0.10	111	85	115			
Sodium	51.0	mg/L	1.0	102	85	115			
Sample ID: C08031189-006D MS	Sample Matrix Spike				Run: SUB-C99401				04/09/08 15:31
Aluminum	0.508	mg/L	0.10	98	70	130			
Barium	0.556	mg/L	0.10	98	70	130			
Boron	0.504	mg/L	0.10	99	70	130			
Chromium	0.493	mg/L	0.050	99	70	130			
Copper	0.474	mg/L	0.010	95	70	130			
Iron	0.542	mg/L	0.030	97	70	130			
Manganese	0.478	mg/L	0.010	95	70	130			
Molybdenum	0.508	mg/L	0.10	98	70	130			
Vanadium	0.502	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18166
Sample ID: C08031189-006D MS	Sample Matrix Spike				Run: SUB-C99401				04/09/08 15:31
Calcium	108	mg/L	1.0	99	70	130			
Magnesium	73.2	mg/L	1.0	98	70	130			
Potassium	51.8	mg/L	1.0	98	70	130			
Silica	14.9	mg/L	0.10		70	130			A
Sodium	62.7	mg/L	1.0	100	70	130			
Sample ID: C08031189-006D MSD	Sample Matrix Spike Duplicate				Run: SUB-C99401				04/09/08 15:34
Aluminum	0.512	mg/L	0.10	99	70	130	0.8	20	
Barium	0.557	mg/L	0.10	99	70	130	0.2	20	
Boron	0.505	mg/L	0.10	99	70	130	0.2	20	
Chromium	0.497	mg/L	0.050	99	70	130	0.7	20	
Copper	0.469	mg/L	0.010	94	70	130	1.1	20	
Iron	0.543	mg/L	0.030	97	70	130	0.2	20	
Manganese	0.480	mg/L	0.010	95	70	130	0.4	20	
Molybdenum	0.510	mg/L	0.10	98	70	130	0.4	20	
Vanadium	0.500	mg/L	0.10	100	70	130	0.4	20	
Calcium	108	mg/L	1.0	99	70	130	0.2	20	
Magnesium	73.1	mg/L	1.0	98	70	130	0.1	20	
Potassium	51.3	mg/L	1.0	97	70	130	1.0	20	
Silica	14.8	mg/L	0.10		70	130	0.7	20	A
Sodium	62.2	mg/L	1.0	99	70	130	0.8	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R99463
Sample ID: MB-080410A	Method Blank				Run: SUB-C99463				04/10/08 11:40
Silica	0.2	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Iron	0.02	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080410A	Laboratory Fortified Blank				Run: SUB-C99463				04/10/08 11:44
Silica	1.3	mg/L	0.10	117	85	125			
Aluminum	0.94	mg/L	0.10	94	85	125			
Boron	0.96	mg/L	0.10	96	85	125			
Calcium	51	mg/L	0.50	102	85	125			
Chromium	0.94	mg/L	0.050	94	85	125			
Iron	0.93	mg/L	0.030	91	85	125			
Magnesium	51	mg/L	0.50	102	85	125			
Manganese	0.92	mg/L	0.010	92	85	125			
Molybdenum	0.99	mg/L	0.10	99	85	125			
Potassium	48	mg/L	0.50	96	85	125			
Sodium	49	mg/L	0.50	98	85	125			
Vanadium	0.98	mg/L	0.10	98	85	125			
Zinc	0.95	mg/L	0.010	95	85	125			
Sample ID: R08030252-004A	Sample Matrix Spike				Run: SUB-C99463				04/10/08 13:10
Aluminum	1.86	mg/L	0.10	90	70	130			
Boron	1.94	mg/L	0.10	90	70	130			
Chromium	1.84	mg/L	0.050	90	70	130			
Iron	1.86	mg/L	0.030	89	70	130			
Manganese	1.82	mg/L	0.010	89	70	130			
Molybdenum	1.96	mg/L	0.10	96	70	130			
Vanadium	1.91	mg/L	0.10	94	70	130			
Zinc	1.88	mg/L	0.010	92	70	130			
Calcium	118	mg/L	1.0	98	70	130			
Magnesium	110	mg/L	1.0	97	70	130			
Potassium	109	mg/L	1.0	92	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R99463
Sample ID: R08030252-004A	Sample Matrix Spike				Run: SUB-C99463				04/10/08 13:10
Silica	3.56	mg/L	0.12	96	70	130			
Sodium	110	mg/L	1.0	94	70	130			
Sample ID: R08030252-004A	Sample Matrix Spike Duplicate				Run: SUB-C99463				04/10/08 13:14
Aluminum	1.92	mg/L	0.10	93	70	130	3.0	20	
Boron	2.03	mg/L	0.10	94	70	130	4.1	20	
Chromium	1.90	mg/L	0.050	93	70	130	3.1	20	
Iron	1.93	mg/L	0.030	93	70	130	3.7	20	
Manganese	1.90	mg/L	0.010	93	70	130	3.8	20	
Molybdenum	1.97	mg/L	0.10	97	70	130	0.7	20	
Vanadium	1.99	mg/L	0.10	98	70	130	4.1	20	
Zinc	1.96	mg/L	0.010	96	70	130	3.9	20	
Calcium	118	mg/L	1.0	98	70	130	0.0	20	
Magnesium	111	mg/L	1.0	98	70	130	0.2	20	
Potassium	110	mg/L	1.0	92	70	130	0.2	20	
Silica	3.60	mg/L	0.12	98	70	130	1.2	20	
Sodium	110	mg/L	1.0	94	70	130	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18166
Sample ID: MB-18166	Method Blank				Run: SUB-C99461				04/10/08 17:52
Arsenic	0.0004	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Copper	ND	mg/L	0.0002						
Lead	1E-05	mg/L							
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	5E-05						
Thorium 232	0.0001	mg/L	7E-05						
Uranium	0.00010	mg/L	3E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS1-18166	Laboratory Control Sample				Run: SUB-C99461				04/10/08 17:59
Arsenic	0.0201	mg/L	0.0010	99	80	120			
Cadmium	0.0203	mg/L	0.010	101	80	120			
Copper	0.0199	mg/L	0.010	99	80	120			
Lead	0.0212	mg/L	0.050	106	80	120			
Nickel	0.0199	mg/L	0.050	99	80	120			
Silver	0.0207	mg/L	0.010	103	80	120			
Thorium 232	0.0188	mg/L	0.0010	93	80	120			
Uranium	0.0200	mg/L	0.00030	100	80	120			
Zinc	0.0229	mg/L	0.010	104	80	120			
Sample ID: C08031189-006DMS4	Post Digestion Spike				Run: SUB-C99461				04/10/08 20:42
Arsenic	0.0215	mg/L	0.0010	104	70	130			
Cadmium	0.0209	mg/L	0.010	104	70	130			
Copper	0.0219	mg/L	0.010	99	70	130			
Lead	0.0206	mg/L	0.050	101	70	130			
Nickel	0.0212	mg/L	0.050	101	70	130			
Silver	0.0213	mg/L	0.010	106	70	130			
Thorium 232	0.0202	mg/L	0.0010	101	70	130			
Uranium	0.471	mg/L	0.00030		70	130			A
Zinc	0.0253	mg/L	0.010	100	70	130			
Sample ID: C08031189-006DMSD4	Post Digestion Spike Duplicate				Run: SUB-C99461				04/10/08 20:48
Arsenic	0.0219	mg/L	0.0010	106	70	130	1.8	20	
Cadmium	0.0208	mg/L	0.010	104	70	130	0.7	20	
Copper	0.0221	mg/L	0.010	99	70	130	0.5	20	
Lead	0.0208	mg/L	0.050	102	70	130	0.0	20	
Nickel	0.0208	mg/L	0.050	99	70	130	0.0	20	
Silver	0.0210	mg/L	0.010	105	70	130	1.6	20	
Thorium 232	0.0205	mg/L	0.0010	103	70	130	1.7	20	
Uranium	0.474	mg/L	0.00030		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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18166
Sample ID: C08031189-006DMSD4	Post Digestion Spike Duplicate				Run: SUB-C99461				04/10/08 20:48
Zinc	0.0281	mg/L	0.010	114	70	130	11	20	
Method: E200.8									Batch: C_18171
Sample ID: MB-18171	Method Blank				Run: SUB-C99526				04/13/08 13:14
Thorium 232	0.0003	mg/L							
Uranium	0.00010	mg/L	2E-05						
Sample ID: LCS1-18171	Laboratory Control Sample				Run: SUB-C99526				04/13/08 13:21
Uranium	0.0509	mg/L	0.00030	97	80	120			
LCS1 was not spiked with thorium.									
Sample ID: R08030252-005K	Post Digestion Spike				Run: SUB-C99526				04/13/08 14:13
Thorium 232	0.0270	mg/L	0.0010	96	70	130			
Uranium	0.0246	mg/L	0.00030	96	70	130			
Sample ID: R08030252-005K	Post Digestion Spike Duplicate				Run: SUB-C99526				04/13/08 14:40
Thorium 232	0.0267	mg/L	0.0010	95	70	130	1.0	20	
Uranium	0.0243	mg/L	0.00030	95	70	130	1.1	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R99526
Sample ID: LRB	Method Blank				Run: SUB-C99526				04/13/08 11:49
Arsenic	ND	mg/L	6E-05						
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	4E-05	mg/L	3E-05						
Thorium 232	7E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C99526				04/13/08 11:54
Arsenic	0.0522	mg/L	0.0010	104	85	115			
Barium	0.0518	mg/L	0.0010	103	85	115			
Cadmium	0.0518	mg/L	0.0010	104	85	115			
Copper	0.0501	mg/L	0.0010	100	85	115			
Lead	0.0519	mg/L	0.0010	104	85	115			
Mercury	0.00510	mg/L	0.0010	102	85	115			
Nickel	0.0519	mg/L	0.0010	104	85	115			
Silver	0.0215	mg/L	0.0010	107	85	115			
Thorium 232	0.0496	mg/L	0.0010	99	85	115			
Uranium	0.0499	mg/L	0.00030	100	85	115			
Sample ID: C08040139-004AMS4	Post Digestion Spike				Run: SUB-C99526				04/13/08 15:14
Arsenic	0.109	mg/L	0.0010	105	70	130			
Barium	0.155	mg/L	0.10	95	70	130			
Cadmium	0.0469	mg/L	0.010	93	70	130			
Copper	0.0455	mg/L	0.010	87	70	130			
Lead	0.0509	mg/L	0.050	102	70	130			
Mercury	0.00516	mg/L	0.0010	103	70	130			
Nickel	0.0507	mg/L	0.050	92	70	130			
Silver	0.0183	mg/L	0.010	91	70	130			
Thorium 232	0.0539	mg/L	0.0010	108	70	130			
Uranium	0.0915	mg/L	0.00030	113	70	130			
Sample ID: C08040139-004AMSD4	Post Digestion Spike Duplicate				Run: SUB-C99526				04/13/08 15:21
Arsenic	0.108	mg/L	0.0010	103	70	130	0.9	20	
Barium	0.156	mg/L	0.10	97	70	130	0.8	20	
Cadmium	0.0468	mg/L	0.010	93	70	130	0.0	20	
Copper	0.0453	mg/L	0.010	86	70	130	0.4	20	
Lead	0.0509	mg/L	0.050	102	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R99526	
Sample ID: C08040139-004AMSD4	Post Digestion Spike Duplicate				Run: SUB-C99526			04/13/08 15:21	
Mercury	0.00522	mg/L	0.0010	104	70	130	1.2	20	
Nickel	0.0507	mg/L	0.050	92	70	130	0.0	20	
Silver	0.0185	mg/L	0.010	92	70	130	1.2	20	
Thorium 232	0.0542	mg/L	0.0010	108	70	130	0.6	20	
Uranium	0.0899	mg/L	0.00030	110	70	130	1.7	20	
Method: E245.1								Batch: C_B_31842	
Sample ID: MB-31842	Method Blank				Run: SUB-C99444			04/10/08 12:28	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31842	Laboratory Fortified Blank				Run: SUB-C99444			04/10/08 12:31	
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08040061-002BMS	Sample Matrix Spike				Run: SUB-C99444			04/10/08 13:33	
Mercury	0.0020	mg/L	0.0010	98	70	130			
Sample ID: B08040061-002BMSD	Sample Matrix Spike Duplicate				Run: SUB-C99444			04/10/08 13:35	
Mercury	0.0021	mg/L	0.0010	103	70	130	4.5	30	
Sample ID: B08031945-002BMS	Sample Matrix Spike				Run: SUB-C99444			04/10/08 12:58	
Mercury	0.0018	mg/L	0.00020	90	70	130			
Sample ID: B08031945-002BMSD	Sample Matrix Spike Duplicate				Run: SUB-C99444			04/10/08 13:00	
Mercury	0.0019	mg/L	0.00020	93	70	130	2.2	10	
Method: E245.1								Batch: C_B_31854	
Sample ID: MB-31854	Method Blank				Run: SUB-C99521			04/11/08 08:14	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-31854	Laboratory Fortified Blank				Run: SUB-C99521			04/11/08 08:16	
Mercury	0.0018	mg/L	0.0010	88	85	115			
Sample ID: R08030252-005B	Sample Matrix Spike				Run: SUB-C99521			04/11/08 08:21	
Mercury	0.0018	mg/L	0.0010	88	70	130			
Sample ID: R08030252-005B	Sample Matrix Spike Duplicate				Run: SUB-C99521			04/11/08 08:23	
Mercury	0.0019	mg/L	0.0010	94	70	130	6.6	30	
Method: E245.1								Analytical Run: SUB-C99444	
Sample ID: QCS	Initial Calibration Verification Standard							04/10/08 12:12	
Mercury	0.0020	mg/L	0.0010	98	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1								Analytical Run: SUB-C99521	
Sample ID: QCS	Initial Calibration Verification Standard							04/11/08 08:03	
Mercury	0.0018	mg/L	0.0010	91	90	110			
Method: E245.1								Analytical Run: SUB-C99880	
Sample ID: QCS	Initial Calibration Verification Standard							04/18/08 11:37	
Mercury	0.0020	mg/L	0.0010	101	90	110			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R33953
Sample ID: LFB0803265758-3	Laboratory Fortified Blank				Run: DIONEX_080326A				03/26/08 11:31
Chloride	4.93	mg/L	0.50	99	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: LFB0803265758-4	Laboratory Fortified Blank				Run: DIONEX_080326A				03/26/08 11:46
Chloride	4.92	mg/L	0.50	98	90	110			
Fluoride	2.06	mg/L	0.10	103	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.6	mg/L	1.0	91	90	110			
Sample ID: R08030252-001CMS	Sample Matrix Spike				Run: DIONEX_080326A				03/26/08 12:17
Chloride	250	mg/L	5.4	94	80	120			
Fluoride	105	mg/L	0.56	100	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	704	mg/L	3.4	83	80	120			
Sample ID: R08030252-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080326A				03/26/08 12:33
Chloride	239	mg/L	5.4	90	80	120	4.3	10	
Fluoride	101	mg/L	0.56	96	80	120	3.5	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	4.7	10	
Sulfate	701	mg/L	3.4	83	80	120	0.4	10	
Sample ID: R08030252-005CMS	Sample Matrix Spike				Run: DIONEX_080326A				03/26/08 15:22
Chloride	262	mg/L	5.4	92	80	120			
Fluoride	106	mg/L	0.56	101	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Sulfate	1920	mg/L	3.4	95	80	120			
Sample ID: R08030252-005CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080326A				03/26/08 15:38
Chloride	252	mg/L	5.4	88	80	120	4.0	10	
Fluoride	102	mg/L	0.56	97	80	120	4.0	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	4.6	10	
Sulfate	1830	mg/L	3.4	83	80	120	4.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0421	
Sample ID: MB-GrAB-0421	Method Blank				Run: SUB-C99588			04/08/08 23:35	
Gross Alpha	-0.3	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0421	Laboratory Control Sample				Run: SUB-C99588			04/08/08 23:36	
Gross Alpha	290	pCi/L		120	70	130			
Sample ID: C08031229-001AMS	Sample Matrix Spike				Run: SUB-C99588			04/08/08 23:35	
Gross Beta	99	pCi/L		106	70	130			
Sample ID: C08031229-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99588			04/08/08 23:36	
Gross Beta	96	pCi/L		102	70	130	3.7	15.6	
Sample ID: C08031215-001AIDUP	Sample Duplicate				Run: SUB-C99588			04/09/08 12:08	
Gross Alpha	180	pCi/L					4.7	22.9	
Gross Beta	92.9	pCi/L					4.8	21.2	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R99476
Sample ID: LCS-R99476	Laboratory Control Sample				Run: SUB-C99476				04/04/08 16:45
Americium 241	740	pCi/L	20	91	70	130			
Cesium 137	1200	pCi/L	20	83	70	130			
Sample ID: MB-R99476	Method Blank				Run: SUB-C99476				04/04/08 16:45
Americium 241	ND	pCi/L							
Barium 133	ND	pCi/L							
Bismuth 212	ND	pCi/L							
Bismuth 214	ND	pCi/L							
Cesium 134	ND	pCi/L							
Cesium 137	ND	pCi/L							
Cobalt 60	ND	pCi/L							
Iodine 125	ND	pCi/L							
Iodine 131	ND	pCi/L							
Lead 212	ND	pCi/L							
Lead 214	ND	pCi/L							
Manganese 54	ND	pCi/L							
Potassium 40	ND	pCi/L							
Radium 223	ND	pCi/L							
Radium 224	ND	pCi/L							
Thallium 208	ND	pCi/L							
Thorium 228	ND	pCi/L							
Thorium 234	ND	pCi/L							
Zinc 65	ND	pCi/L							
Radium 228	ND	pCi/L							
Gross Gamma	ND	pCi/L							U
Method: E903.0									Batch: C_R99766
Sample ID: C08031096-006AMS	Sample Matrix Spike				Run: SUB-C99766				04/12/08 23:58
Radium 226	73.3	pCi/Filter		106	70	130			
Sample ID: C08031096-006AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99766				04/13/08 01:28
Radium 226	71.9	pCi/Filter		104	70	130	1.8	25.2	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99766				04/13/08 22:32
Radium 226	12	pCi/L		89	70	130			
Sample ID: MB-18171	Method Blank				Run: SUB-C99766				04/14/08 00:02
Radium 226	0.5	pCi/L							

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08030252

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-2718	
Sample ID: TAP WATER-MS	Sample Matrix Spike				Run: SUB-C99973			04/20/08 12:08	
Radium 226	6.0	pCi/L		92	70	130			
Sample ID: TAP WATER-MSD	Sample Matrix Spike Duplicate				Run: SUB-C99973			04/20/08 13:38	
Radium 226	6.5	pCi/L		99	70	130	7.5	25.7	
Sample ID: MB-RA226-2718	Method Blank				Run: SUB-C99973			04/20/08 15:08	
Radium 226	-0.02	pCi/L							U
Sample ID: LCS-RA226-2718	Laboratory Control Sample				Run: SUB-C99973			04/20/08 16:39	
Radium 226	6.5	pCi/L		102	70	130			
Method: E907.0								Batch: C_18171	
Sample ID: C08031096-005AMS	Sample Matrix Spike				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	47.2	pCi/Filter	0.20	93	70	130			
Sample ID: C08031096-005AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	47.3	pCi/Filter	0.20	94	70	130	0.2	30	
Sample ID: LCS-18171	Laboratory Control Sample				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	43.2	pCi/Filter	0.20	89	70	130			
Sample ID: MB-18171	Method Blank				Run: SUB-C99557			04/02/08 15:30	
Thorium 230	0.2	pCi/Filter							
Method: E907.0								Batch: C_R99362	
Sample ID: LCS-R99362	Laboratory Control Sample				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	8.20	pCi/L	0.20	116	70	130			
Sample ID: C08030555-001HMS	Sample Matrix Spike				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	13.7	pCi/L	0.20	121	70	130			
Sample ID: C08030555-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	13.2	pCi/L	0.20	116	70	130	3.7	30	
Sample ID: MB-R99362	Method Blank				Run: SUB-C99362			03/31/08 14:00	
Thorium 230	0.1	pCi/L							

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
RESPEC	Power Tech Dewey Burdock	State: SD	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** Phone/Fax:	**Email:**	**Sampler: (Please Print)**
RESPEC	Cory.foreman@respec.com		Eric Krantz
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**
RESPEC			

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 2.0 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	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)												LABORATORY USE ONLY
1	Dew Burd GW 650	03/24/08	0900	W											set 5 GW	
2	~~Dew Burd GW 15~~	~~03/24/08~~	~~1030~~	~~W~~											~~Set 11 GW~~	
3	Dew Burd SUB 11	03/24/08	11:10	W											Set 12 SW	0805 0857-001
4	Dew Burd SUB7	03/24/08	11:55	W											Set 4 SW	002
5	Dew Burd SUB1	03/24/08	12:45	W											Set 8 SW	003
6	Dew Burd GW619	03/24/08	15:40	W											Set 19 GW	
7	Dew Burd SUB9	03/24/08	16:25	W											Set 10 SW	004
8	Dew Burd SUB10	03/24/08	17:10	W											Set 13 SW	005
9																
10																

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	03/25/08 0810	[signature]			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Sample Disposal: Return to Client: _____		Lab Disposal: _____	Received by Laboratory: Linda Larson	Date/Time: 03/25/08 0810	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040178 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 4/15/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040178-001	DewBurd CHR05	04/14/08 11:00	04/15/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08040178-002	DewBurd CHR05	04/14/08 11:05	04/15/08	Aqueous	Same As Above
R08040178-003	DewBurd BVC04	04/14/08 14:55	04/15/08	Aqueous	Same As Above
R08040178-004	DewBurd BVC01	04/14/08 18:43	04/15/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

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

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-001
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:00
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	164	mg/L		5		1	A2320 B	04/16/08 12:06/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:06/mb
Bicarbonate as HCO3	200	mg/L		5		1	A2320 B	04/16/08 12:06/mb
Calcium	407	mg/L		0.5		2	E200.7	05/05/08 11:20/eli-c
Chloride	780	mg/L	D	5		50	E300.0	04/16/08 18:41/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/16/08 19:27/jmh
Magnesium	127	mg/L		0.5		2	E200.7	05/05/08 11:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 14:16/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 19:27/jmh
Potassium	8	mg/L		1		2	E200.7	05/05/08 11:20/eli-c
Silica	3.4	mg/L		0.5		2	E200.7	05/05/08 11:20/eli-c
Sodium	572	mg/L		0.5		2	E200.7	05/05/08 11:20/eli-c
Sulfate	1540	mg/L	D	3		50	E300.0	04/16/08 18:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5150	umhos/cm		5.0		1	A2510 B	04/21/08 16:53/jmh
pH	8.10	s.u.		0.01		1	A4500-H B	04/21/08 16:28/jmh
Sodium Adsorption Ratio (SAR)	6.3	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	15	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3700	mg/L		5		1	A2540 C	04/16/08 16:22/mb
Solids, Total Suspended TSS @ 105 C	19	mg/L		5		1	A2540 D	04/16/08 08:25/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 00:30/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/07/08 00:30/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	05/05/08 11:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:30/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 00:30/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 11:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:30/eli-c
Manganese	0.59	mg/L		0.01		2	E200.7	05/05/08 11:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:30/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:20/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-001
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:00
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/07/08 00:30/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:30/eli-c
Uranium	0.0134	mg/L		0.0003		1	E200.8	05/07/08 00:30/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 11:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:18/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	05/01/08 20:18/eli-c
METALS - TOTAL								
Aluminum	0.4	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/29/08 00:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:05/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Iron	0.36	mg/L		0.03		2	E200.7	04/29/08 00:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:05/eli-c
Manganese	0.73	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Mercury	ND	mg/L		0.0006		1	E200.8	04/26/08 01:05/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:05/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:05/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:05/eli-c
Uranium	0.0141	mg/L		0.0003		1	E200.8	04/26/08 01:05/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:05/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:05/eli-c
Calcium	430	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Magnesium	138	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Potassium	8.4	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Silica	5.4	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c
Sodium	634	mg/L		0.5		2	E200.7	04/29/08 00:08/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-001
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:00
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:24/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:41/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:59/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	04/22/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/22/08 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.3	pCi/L	U			1	E903.0	05/05/08 06:45/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 06:45/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 06:45/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.8	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	10.0	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	13.8	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	10.2	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	8.5	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	13.9	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.4	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	05/28/08 18:43/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-001
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:00
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:44/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.29					1	A1030 E	06/17/08 00:00/ADM
Anions	57.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	55.9	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3540	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	06/17/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	168	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Bicarbonate as HCO3	205	mg/L		5		1	A2320 B	04/16/08 12:17/mb
Calcium	457	mg/L		0.5		2	E200.7	05/06/08 16:19/eli-c
Chloride	861	mg/L	D	5		50	E300.0	04/16/08 19:43/jmh
Fluoride	1.0	mg/L		0.1		1	E300.0	04/16/08 19:58/jmh
Magnesium	127	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 13:56/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 19:58/jmh
Potassium	8	mg/L		1		2	E200.7	05/05/08 11:33/eli-c
Silica	3.4	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Sodium	580	mg/L		0.5		2	E200.7	05/05/08 11:33/eli-c
Sulfate	1710	mg/L	D	3		50	E300.0	04/16/08 19:43/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5150	umhos/cm		5.0		1	A2510 B	04/21/08 16:55/jmh
pH	8.04	s.u.		0.01		1	A4500-H B	04/21/08 16:30/jmh
Sodium Adsorption Ratio (SAR)	6.2	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	18	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	04/16/08 16:23/mb
Solids, Total Suspended TSS @ 105 C	20	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 16:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/07/08 00:37/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 11:33/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Manganese	0.59	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:37/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	05/06/08 16:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:37/eli-c
Uranium	0.0135	mg/L		0.0003		1	E200.8	05/07/08 00:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:33/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	05/05/08 11:33/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 20:25/eli-c
METALS - TOTAL								
Aluminum	0.4	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:12/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/29/08 00:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:12/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Iron	0.43	mg/L		0.03		2	E200.7	04/29/08 00:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:12/eli-c
Manganese	0.73	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/26/08 01:12/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:12/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:12/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:12/eli-c
Uranium	0.0140	mg/L		0.0003		1	E200.8	04/26/08 01:12/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:12/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:12/eli-c
Calcium	418	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Magnesium	134	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Potassium	9.6	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Silica	5.6	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c
Sodium	630	mg/L		0.5		2	E200.7	04/29/08 00:12/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 11:05/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/22/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/22/08 15:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.5	pCi/L	U			1	E903.0	05/05/08 08:16/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 08:16/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 08:16/eli-c
Thorium 230	0.3	pCi/L				1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.9	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	10.0	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	13.9	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	-0.1	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	8.3	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	14.0	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.5	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	05/28/08 18:43/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-002
Client Sample ID: DewBurd CHR05

Report Date: 06/24/08
Collection Date: 04/14/08 11:05
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:46/eli-b
DATA QUALITY								
A/C Balance (± 5)	-3.76					1	A1030 E	06/17/08 00:00/ADM
Anions	63.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	58.8	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3860	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-003
Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
Collection Date: 04/14/08 14:55
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	186	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Bicarbonate as HCO3	227	mg/L		5		1	A2320 B	04/16/08 12:20/mb
Calcium	455	mg/L		0.5		2	E200.7	05/06/08 16:56/eli-c
Chloride	1730	mg/L	D	20		200	E300.0	04/18/08 18:32/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/16/08 20:29/jmh
Magnesium	177	mg/L		0.5		2	E200.7	05/06/08 16:56/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 14:37/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 20:29/jmh
Potassium	6	mg/L		1		2	E200.7	05/06/08 16:56/eli-c
Silica	2.6	mg/L		0.5		2	E200.7	05/05/08 11:37/eli-c
Sodium	995	mg/L		0.5		2	E200.7	05/05/08 11:37/eli-c
Sulfate	1860	mg/L	D	3		50	E300.0	04/16/08 20:14/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	7540	umhos/cm		5.0		1	A2510 B	04/21/08 16:56/jmh
pH	7.97	s.u.		0.01		1	A4500-H B	04/21/08 16:31/jmh
Sodium Adsorption Ratio (SAR)	10	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	40	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	5100	mg/L		5		1	A2540 C	04/16/08 16:23/mb
Solids, Total Suspended TSS @ 105 C	32	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 16:56/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:44/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	05/05/08 11:37/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Manganese	0.55	mg/L		0.01		2	E200.7	05/05/08 11:37/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-003
Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
Collection Date: 04/14/08 14:55
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	05/06/08 16:56/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:44/eli-c
Uranium	0.0165	mg/L		0.0003		1	E200.8	05/07/08 00:44/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:37/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/06/08 16:56/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:32/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 20:32/eli-c
METALS - TOTAL								
Aluminum	0.7	mg/L		0.1		2	E200.7	04/29/08 00:15/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	04/26/08 01:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:15/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	04/29/08 00:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:19/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:19/eli-c
Iron	0.74	mg/L		0.03		2	E200.7	04/29/08 00:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:19/eli-c
Manganese	0.72	mg/L		0.01		1	E200.8	04/26/08 01:19/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/26/08 01:19/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:19/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:19/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:19/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:19/eli-c
Uranium	0.0169	mg/L		0.0003		1	E200.8	04/26/08 01:19/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:19/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:19/eli-c
Calcium	401	mg/L		0.5		2	E200.7	04/29/08 00:15/eli-c
Magnesium	161	mg/L		0.5		2	E200.7	04/29/08 00:15/eli-c
Potassium	14.4	mg/L		0.5		2	E200.7	04/29/08 00:15/eli-c
Silica	6.0	mg/L		0.5		2	E200.7	04/29/08 00:15/eli-c
Sodium	1070	mg/L		0.5		2	E200.7	04/29/08 00:15/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-003
Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
Collection Date: 04/14/08 14:55
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:33/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:51/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 11:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.2	pCi/L	U			1	E903.0	05/05/08 09:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 09:46/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 09:46/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	23.4	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	14.2	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	20.4	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	2.8	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	11.2	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	18.8	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.3	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	05/28/08 18:43/eli-c

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

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-003
Client Sample ID: DewBurd BVC04

Report Date: 06/24/08
Collection Date: 04/14/08 14:55
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:49/eli-b
DATA QUALITY								
A/C Balance (± 5)	-6.02					1	A1030 E	06/17/08 00:00/ADM
Anions	91.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	80.8	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	5340	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.960					1	A1030 E	06/17/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-004
Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
Collection Date: 04/14/08 18:43
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/15/08 11:00/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	160	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Bicarbonate as HCO3	195	mg/L		5		1	A2320 B	04/16/08 12:24/mb
Calcium	425	mg/L		0.5		2	E200.7	05/06/08 17:00/eli-c
Chloride	973	mg/L	D	5		50	E300.0	04/16/08 20:45/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/16/08 21:31/jmh
Magnesium	127	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 14:40/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/16/08 21:31/jmh
Potassium	10	mg/L		1		2	E200.7	05/05/08 11:40/eli-c
Silica	2.1	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Sodium	625	mg/L		0.5		2	E200.7	05/05/08 11:40/eli-c
Sulfate	1570	mg/L	D	3		50	E300.0	04/16/08 20:45/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5340	umhos/cm		5.0		1	A2510 B	04/21/08 16:57/jmh
pH	8.09	s.u.		0.01		1	A4500-H B	04/21/08 16:31/jmh
Sodium Adsorption Ratio (SAR)	6.8	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	19	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	04/18/08 14:21/mb
Solids, Total Suspended TSS @ 105 C	17	mg/L		5		1	A2540 D	04/16/08 08:26/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Barium	ND	mg/L		0.1		2	E200.7	05/06/08 17:00/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Copper	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Iron	ND	mg/L		0.03		2	E200.7	05/05/08 11:40/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Manganese	0.83	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/07/08 00:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-004
Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
Collection Date: 04/14/08 18:43
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	05/06/08 17:00/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/07/08 00:50/eli-c
Uranium	0.0125	mg/L		0.0003		1	E200.8	05/07/08 00:50/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	05/05/08 11:40/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	05/05/08 11:40/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 20:38/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	04/26/08 01:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	04/29/08 00:19/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Chromium	ND	mg/L		0.05		1	E200.8	04/26/08 01:26/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/15/08 00:00/ch
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Iron	0.52	mg/L		0.03		2	E200.7	04/29/08 00:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	04/26/08 01:26/eli-c
Manganese	0.98	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	04/26/08 01:26/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	04/26/08 01:26/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	04/26/08 01:26/eli-c
Silver	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	04/26/08 01:26/eli-c
Uranium	0.0127	mg/L		0.0003		1	E200.8	04/26/08 01:26/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	04/26/08 01:26/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	04/26/08 01:26/eli-c
Calcium	381	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Magnesium	128	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Potassium	13.0	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Silica	4.8	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c
Sodium	659	mg/L		0.5		2	E200.7	04/29/08 00:19/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-004
Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
Collection Date: 04/14/08 18:43
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:35/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 10:53/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/18/08 14:52/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/18/08 11:10/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/18/08 15:15/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/06/08 09:47/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	05/06/08 09:47/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.0	pCi/L	U			1	E903.0	05/05/08 11:17/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 11:17/eli-c
Radium 226 MDC	0.8	pCi/L				1	E903.0	05/05/08 11:17/eli-c
Thorium 230	0.8	pCi/L				1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.1	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Alpha MDC	13.9	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta	-27.1	pCi/L	U			1	E900.0	05/09/08 01:51/eli-c
Gross Beta precision (±)	10.3	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Beta MDC	18.1	pCi/L				1	E900.0	05/09/08 01:51/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/28/08 18:43/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/28/08 18:43/eli-c
Thorium 230	1.1	pCi/L		0.2		1	E907.0	05/28/08 18:43/eli-c
Thorium 230 precision (±)	0.5	pCi/L				1	E907.0	05/28/08 18:43/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040178-004
Client Sample ID: DewBurd BVC01

Report Date: 06/24/08
Collection Date: 04/14/08 18:43
Date Received: 04/15/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	04/24/08 16:51/eli-b
DATA QUALITY								
A/C Balance (± 5)	-3.44					1	A1030 E	06/17/08 00:00/ADM
Anions	63.4	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	59.2	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	3840	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080416A-ALK-SEL-W	
Sample ID: LCS1_080416A	Laboratory Control Sample				Run: PH_COND1-R_080416C			04/16/08 11:25	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: R08040161-001BMS	Sample Matrix Spike				Run: PH_COND1-R_080416C			04/16/08 11:58	
Alkalinity, Total as CaCO3	560	mg/L	5.0	98	80	120			
Sample ID: R08040161-001BMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080416C			04/16/08 12:03	
Alkalinity, Total as CaCO3	586	mg/L	5.0	123	80	120	4.5	10	S
Method: A2510 B								Batch: 080421_1_COND-PROBE-W	
Sample ID: LCS1-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:49	
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:50	
Conductivity @ 25 C	5100	umhos/cm	5.0	102	90	110			
Sample ID: LCS_COND-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:51	
Conductivity @ 25 C	1440	umhos/cm	5.0	102	90	110			
Sample ID: MBLK-1_080421	Method Blank				Run: PH_COND2-R_080421B			04/21/08 16:52	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08040178-001CDUP	Sample Duplicate				Run: PH_COND2-R_080421B			04/21/08 16:54	
Conductivity @ 25 C	5220	umhos/cm	5.0				1.4	10	
Method: A2540 C								Batch: 080416A-SLDS-TDS-W	
Sample ID: LCS1_080416A	Laboratory Control Sample				Run: BAL-4-R_080416B			04/16/08 16:17	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	101	90	110			
Sample ID: MBLK1_080416A	Method Blank				Run: BAL-4-R_080416B			04/16/08 16:18	
Solids, Total Dissolved TDS @ 180 C	4	mg/L	3						
Sample ID: R08040178-004CMS	Sample Matrix Spike				Run: BAL-4-R_080416B			04/18/08 14:22	
Solids, Total Dissolved TDS @ 180 C	4100	mg/L	5.0	170	80	120			S
Sample ID: R08040178-004CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080416B			04/18/08 14:22	
Solids, Total Dissolved TDS @ 180 C	4100	mg/L	5.0	167	80	120	0.1	10	S

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080416A-SLDS-TSS-W	
Sample ID: LCS1_080416A	Laboratory Control Sample				Run: BAL-4-R_080416D			04/16/08 08:18	
Solids, Total Suspended TSS @ 105 C	200	mg/L	5.0	98	85	115			
Sample ID: MBLK1_080416A	Method Blank				Run: BAL-4-R_080416D			04/16/08 08:19	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B								Batch: C_SE-3114-041808	
Sample ID: MBLK	Method Blank				Run: SUB-C99842			04/18/08 14:19	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-61-6	Laboratory Control Sample				Run: SUB-C99842			04/18/08 14:21	
Selenium	0.049	mg/L	0.0010	97	90	110			
Sample ID: R08040178-001A	Sample Matrix Spike				Run: SUB-C99842			04/18/08 14:26	
Selenium	0.054	mg/L	0.0010	107	85	115			
Sample ID: R08040178-001A	Sample Matrix Spike Duplicate				Run: SUB-C99842			04/18/08 14:28	
Selenium	0.052	mg/L	0.0010	104	85	115	2.9	10	
Sample ID: R08040178-001H	Sample Matrix Spike				Run: SUB-C99842			04/18/08 14:43	
Selenium	0.054	mg/L	0.0010	107	85	115			
Sample ID: R08040178-001H	Sample Matrix Spike Duplicate				Run: SUB-C99842			04/18/08 14:45	
Selenium	0.052	mg/L	0.0010	104	85	115	2.4	10	
Sample ID: C08040476-009AMS	Sample Matrix Spike				Run: SUB-C99842			04/18/08 14:56	
Selenium	0.084	mg/L	0.0010	106	85	115			
Sample ID: C08040476-009AMSD	Sample Matrix Spike Duplicate				Run: SUB-C99842			04/18/08 14:58	
Selenium	0.082	mg/L	0.0010	101	85	115	2.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SEIV-3114-041808	
Sample ID: MBLK	Method Blank				Run: SUB-C99823			04/18/08 10:37	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-61-6	Laboratory Control Sample				Run: SUB-C99823			04/18/08 10:39	
Selenium-IV	0.051	mg/L	0.0010	102	90	110			
Sample ID: R08040178-001A	Sample Matrix Spike				Run: SUB-C99823			04/18/08 10:44	
Selenium-IV	0.047	mg/L	0.0010	92	85	115			
Sample ID: R08040178-001A	Sample Matrix Spike Duplicate				Run: SUB-C99823			04/18/08 10:46	
Selenium-IV	0.049	mg/L	0.0010	97	85	115	5.3	10	
Sample ID: R08040178-001H	Sample Matrix Spike				Run: SUB-C99823			04/18/08 11:01	
Selenium-IV	0.046	mg/L	0.0010	90	85	115			
Sample ID: R08040178-001H	Sample Matrix Spike Duplicate				Run: SUB-C99823			04/18/08 11:03	
Selenium-IV	0.046	mg/L	0.0010	89	85	115	0.4	10	
Method: A3500-Cr B								Batch: 080415-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Sample ID: R08040178-001EMS	Sample Matrix Spike				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Sample ID: R08040178-002EMS	Sample Matrix Spike				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08040178-003EMS	Sample Matrix Spike				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08040178-004EMS	Sample Matrix Spike				Run: SPEC1_080415A			04/15/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Method: A4500-H B								Batch: 080421_1_PH-W	
Sample ID: LCS_pH-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:27	
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08040178-001CDUP	Sample Duplicate				Run: PH_COND2-R_080421B			04/21/08 16:29	
pH	8.11	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-04-17_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080417A			04/17/08 10:21	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080417A			04/17/08 10:22	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080417A			04/17/08 10:23	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			
Sample ID: R08040160-001AMS	Sample Matrix Spike				Run: TECHAA2-R_080417A			04/17/08 13:55	
Nitrogen, Ammonia as N	0.35	mg/L	0.10	105	80	120			
Sample ID: R08040178-003FMS	Sample Matrix Spike				Run: TECHAA2-R_080417A			04/17/08 14:38	
Nitrogen, Ammonia as N	0.21	mg/L	0.10	86	80	120			
Sample ID: R08040178-003FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080417A			04/17/08 14:39	
Nitrogen, Ammonia as N	0.21	mg/L	0.10	86	80	120	0.0	10	
Method: A9222 D								Batch: 080415-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080415A			04/15/08 11:00	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18330
Sample ID: MB-18330	Method Blank				Run: SUB-C100319				04/28/08 23:14
Aluminum	0.002	mg/L	0.0007						
Barium	ND	mg/L	0.004						
Boron	ND	mg/L	0.006						
Iron	ND	mg/L	0.005						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.1						
Potassium	0.2	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	ND	mg/L	0.1						
Sample ID: LCS-18330	Laboratory Control Sample				Run: SUB-C100319				04/28/08 23:17
Aluminum	0.481	mg/L	0.10	96	85	115			
Barium	0.474	mg/L	0.10	95	85	115			
Boron	0.488	mg/L	0.10	98	85	115			
Iron	0.491	mg/L	0.030	98	85	115			
Calcium	53.1	mg/L	1.0	106	85	115			
Magnesium	53.5	mg/L	1.0	107	85	115			
Potassium	47.9	mg/L	1.0	95	85	115			
Silica	0.512	mg/L	0.10	102	85	115			
Sodium	52.2	mg/L	1.0	104	85	115			
Sample ID: R08040178-004B	Sample Matrix Spike				Run: SUB-C100319				04/29/08 00:22
Aluminum	1.09	mg/L	0.10	117	70	130			
Barium	0.464	mg/L	0.10	87	70	130			
Boron	0.726	mg/L	0.10	94	70	130			
Iron	0.980	mg/L	0.030	92	70	130			
Calcium	431	mg/L	1.0		70	130			A
Magnesium	176	mg/L	1.0	96	70	130			
Potassium	60.8	mg/L	1.0	96	70	130			
Silica	5.91	mg/L	0.10		70	130			A
Sodium	718	mg/L	1.0		70	130			A
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate				Run: SUB-C100319				04/29/08 00:25
Aluminum	1.07	mg/L	0.10	114	70	130	1.1	20	
Barium	0.481	mg/L	0.10	90	70	130	3.5	20	
Boron	0.729	mg/L	0.10	94	70	130	0.4	20	
Iron	0.981	mg/L	0.030	93	70	130	0.2	20	
Calcium	436	mg/L	1.0		70	130	1.1	20	A
Magnesium	178	mg/L	1.0	101	70	130	1.2	20	
Potassium	61.4	mg/L	1.0	97	70	130	1.0	20	
Silica	5.78	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18330
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate				Run: SUB-C100319			04/29/08 00:25	
Sodium	723	mg/L	1.0		70	130	0.6	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R100675
Sample ID: MB-080505A	Method Blank				Run: SUB-C100675				05/05/08 10:34
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Boron	ND	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	0.003	mg/L	0.003						
Copper	ND	mg/L	0.005						
Iron	0.006	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	ND	mg/L	0.08						
Sodium	ND	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	ND	mg/L	0.004						
Sample ID: LFB-080505A	Laboratory Fortified Blank				Run: SUB-C100675				05/05/08 10:37
Silica	0.97	mg/L	0.10	97	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Boron	0.99	mg/L	0.10	99	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	0.99	mg/L	0.050	99	85	125			
Copper	0.94	mg/L	0.010	94	85	125			
Iron	0.97	mg/L	0.030	97	85	125			
Magnesium	53	mg/L	0.50	107	85	125			
Manganese	0.95	mg/L	0.010	95	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Potassium	50	mg/L	0.50	100	85	125			
Sodium	51	mg/L	0.50	102	85	125			
Vanadium	1.0	mg/L	0.10	103	85	125			
Zinc	1.0	mg/L	0.010	102	85	125			
Sample ID: C08040699-001KMS2	Sample Matrix Spike				Run: SUB-C100675				05/05/08 11:04
Aluminum	4.44	mg/L	0.10	87	70	130			
Boron	4.80	mg/L	0.10	91	70	130			
Chromium	4.65	mg/L	0.050	91	70	130			
Copper	4.28	mg/L	0.028	84	70	130			
Iron	4.65	mg/L	0.030	90	70	130			
Manganese	4.70	mg/L	0.010	88	70	130			
Molybdenum	4.79	mg/L	0.10	94	70	130			
Vanadium	4.85	mg/L	0.10	95	70	130			
Zinc	4.90	mg/L	0.021	94	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R100675	
Sample ID: C08040699-001KMS2	Sample Matrix Spike				Run: SUB-C100675			05/05/08 11:04	
Calcium	622	mg/L	1.0	91	70	130			
Magnesium	387	mg/L	1.0	91	70	130			
Potassium	251	mg/L	1.0	94	70	130			
Silica	20.5	mg/L	0.29	74	70	130			
Sodium	364	mg/L	1.0	91	70	130			
Sample ID: C08040699-001KMSD2	Sample Matrix Spike Duplicate				Run: SUB-C100675			05/05/08 11:17	
Aluminum	4.85	mg/L	0.10	95	70	130	8.8	20	
Boron	5.27	mg/L	0.10	100	70	130	9.2	20	
Chromium	5.04	mg/L	0.050	99	70	130	8.1	20	
Copper	4.64	mg/L	0.028	91	70	130	8.0	20	
Iron	5.01	mg/L	0.030	97	70	130	7.5	20	
Manganese	5.07	mg/L	0.010	96	70	130	7.6	20	
Molybdenum	5.07	mg/L	0.10	100	70	130	5.8	20	
Vanadium	5.26	mg/L	0.10	103	70	130	8.3	20	
Zinc	5.24	mg/L	0.021	101	70	130	6.6	20	
Calcium	670	mg/L	1.0	110	70	130	7.5	20	
Magnesium	420	mg/L	1.0	104	70	130	8.2	20	
Potassium	268	mg/L	1.0	101	70	130	6.7	20	
Silica	22.2	mg/L	0.29	107	70	130	8.1	20	
Sodium	390	mg/L	1.0	102	70	130	6.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R100765
Sample ID: MB-080506A	Method Blank				Run: SUB-C100765				05/06/08 14:47
Barium	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080506A	Laboratory Fortified Blank				Run: SUB-C100765				05/06/08 14:51
Barium	1.0	mg/L	0.10	102	85	125			
Calcium	55	mg/L	0.50	111	85	125			
Magnesium	55	mg/L	0.50	110	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08040779-001CMS2	Sample Matrix Spike				Run: SUB-C100765				05/06/08 17:20
Barium	1.13	mg/L	0.10	105	70	130			
Nickel	1.07	mg/L	0.050	105	70	130			
Zinc	1.12	mg/L	0.010	108	70	130			
Calcium	172	mg/L	1.0	96	70	130			
Magnesium	99.5	mg/L	1.0	108	70	130			
Potassium	49.7	mg/L	1.0	93	70	130			
Sample ID: C08040779-001CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C100765				05/06/08 17:24
Barium	1.12	mg/L	0.10	104	70	130	1.0	20	
Nickel	1.07	mg/L	0.050	105	70	130	0.2	20	
Zinc	1.11	mg/L	0.010	107	70	130	0.8	20	
Calcium	175	mg/L	1.0	101	70	130	1.4	20	
Magnesium	99.5	mg/L	1.0	108	70	130	0.0	20	
Potassium	50.3	mg/L	1.0	94	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18330
Sample ID: MB-18330	Method Blank				Run: SUB-C100187				04/25/08 21:35
Arsenic	0.0006	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Chromium	0.0006	mg/L	5E-05						
Copper	0.0008	mg/L	0.0002						
Lead	2E-05	mg/L							
Manganese	0.0004	mg/L	3E-05						
Molybdenum	ND	mg/L	7E-05						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	4E-05						
Thorium 232	0.0002	mg/L	7E-05						
Uranium	0.0006	mg/L	3E-05						
Vanadium	0.0001	mg/L	6E-05						
Zinc	0.002	mg/L	0.0003						
Sample ID: LCS-18330	Laboratory Control Sample				Run: SUB-C100187				04/25/08 21:42
Arsenic	0.564	mg/L	0.0010	113	85	115			
Cadmium	0.559	mg/L	0.010	112	85	115			
Chromium	0.566	mg/L	0.050	113	85	115			
Copper	0.550	mg/L	0.010	110	85	115			
Lead	0.569	mg/L	0.050	114	85	115			
Manganese	0.551	mg/L	0.010	110	85	115			
Molybdenum	0.579	mg/L	0.10	116	85	115			
Nickel	0.556	mg/L	0.050	111	85	115			
Silver	0.177	mg/L	0.010	89	85	115			
Thorium 232	0.569	mg/L	0.0010	114	85	115			
Uranium	0.567	mg/L	0.00032	113	85	115			
Vanadium	0.567	mg/L	0.10	113	85	115			
Zinc	0.566	mg/L	0.010	113	85	115			
Sample ID: R08040178-004B	Sample Matrix Spike				Run: SUB-C100187				04/26/08 01:32
Arsenic	0.533	mg/L	0.0010	106	70	130			
Cadmium	0.497	mg/L	0.010	99	70	130			
Chromium	0.539	mg/L	0.050	107	70	130			
Copper	0.493	mg/L	0.010	98	70	130			
Lead	0.508	mg/L	0.050	102	70	130			
Manganese	1.54	mg/L	0.010	111	70	130			
Molybdenum	0.556	mg/L	0.10	109	70	130			
Nickel	0.506	mg/L	0.050	100	70	130			
Silver	0.206	mg/L	0.010	103	70	130			
Thorium 232	0.526	mg/L	0.0010	105	70	130			
Uranium	0.538	mg/L	0.00032	105	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18330
Sample ID: R08040178-004B	Sample Matrix Spike				Run: SUB-C100187				04/26/08 01:32
Vanadium	0.547	mg/L	0.10	109	70	130			
Zinc	0.503	mg/L	0.010	99	70	130			
Sample ID: R08040178-004B	Sample Matrix Spike Duplicate				Run: SUB-C100187				04/26/08 01:39
Arsenic	0.531	mg/L	0.0010	106	70	130	0.5	20	
Cadmium	0.489	mg/L	0.010	98	70	130	1.6	20	
Chromium	0.536	mg/L	0.050	107	70	130	0.6	20	
Copper	0.501	mg/L	0.010	100	70	130	1.5	20	
Lead	0.520	mg/L	0.050	104	70	130	2.3	20	
Manganese	1.53	mg/L	0.010	108	70	130	1.0	20	
Molybdenum	0.549	mg/L	0.10	108	70	130	1.4	20	
Nickel	0.515	mg/L	0.050	101	70	130	1.6	20	
Silver	0.206	mg/L	0.010	103	70	130	0.3	20	
Thorium 232	0.540	mg/L	0.0010	108	70	130	2.6	20	
Uranium	0.542	mg/L	0.00032	106	70	130	0.7	20	
Vanadium	0.538	mg/L	0.10	107	70	130	1.7	20	
Zinc	0.505	mg/L	0.010	99	70	130	0.4	20	
Method: E200.8									Batch: C_18345
Sample ID: MB-18345	Method Blank				Run: SUB-C100506				05/01/08 20:05
Thorium 232	0.0002	mg/L							
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-18345	Laboratory Control Sample				Run: SUB-C100506				05/01/08 20:12
Uranium	0.0548	mg/L	0.00030	104	80	120			
Sample ID: R08040220-002K	Post Digestion Spike				Run: SUB-C100506				05/01/08 20:58
Thorium 232	0.0242	mg/L	0.0010	97	70	130			
Uranium	0.0255	mg/L	0.00030	98	70	130			
Sample ID: R08040220-002K	Post Digestion Spike Duplicate				Run: SUB-C100506				05/01/08 21:25
Thorium 232	0.0246	mg/L	0.0010	98	70	130	1.6	20	
Uranium	0.0257	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R100732	
Sample ID: LRB	Method Blank				Run: SUB-C100732			05/06/08 11:52	
Arsenic	ND	mg/L	6E-05						
Barium	4E-05	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	0.0001	mg/L	8E-05						
Nickel	ND	mg/L	0.0007						
Silver	5E-05	mg/L	3E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100732			05/06/08 11:59	
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0534	mg/L	0.0010	107	85	115			
Cadmium	0.0525	mg/L	0.0010	105	85	115			
Copper	0.0528	mg/L	0.0010	106	85	115			
Lead	0.0535	mg/L	0.0010	107	85	115			
Mercury	0.00525	mg/L	0.0010	103	85	115			
Nickel	0.0530	mg/L	0.0010	106	85	115			
Silver	0.0211	mg/L	0.0010	105	85	115			
Thorium 232	0.0525	mg/L	0.0010	105	85	115			
Uranium	0.0522	mg/L	0.00030	104	85	115			
Sample ID: C08040928-001CMS4	Post Digestion Spike				Run: SUB-C100732			05/06/08 15:02	
Arsenic	0.0516	mg/L	0.0010	101	70	130			
Barium	0.0775	mg/L	0.10	104	70	130			
Cadmium	0.0491	mg/L	0.010	98	70	130			
Copper	0.0482	mg/L	0.010	96	70	130			
Lead	0.0526	mg/L	0.050	105	70	130			
Mercury	0.00527	mg/L	0.0010	105	70	130			
Nickel	0.0472	mg/L	0.050	94	70	130			
Silver	0.0129	mg/L	0.010	65	70	130			S
Thorium 232	0.0542	mg/L	0.0010	108	70	130			
Uranium	0.0605	mg/L	0.00030	108	70	130			
Sample ID: C08040928-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C100732			05/06/08 15:08	
Arsenic	0.0534	mg/L	0.0010	104	70	130	3.4	20	
Barium	0.0780	mg/L	0.10	105	70	130	0.0	20	
Cadmium	0.0506	mg/L	0.010	101	70	130	2.9	20	
Copper	0.0488	mg/L	0.010	98	70	130	1.3	20	
Lead	0.0526	mg/L	0.050	105	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R100732	
Sample ID: C08040928-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C100732			05/06/08 15:08	
Mercury	0.00528	mg/L	0.0010	106	70	130	0.1	20	
Nickel	0.0490	mg/L	0.050	98	70	130	0.0	20	
Silver	0.0134	mg/L	0.010	67	70	130	3.4	20	S
Thorium 232	0.0545	mg/L	0.0010	109	70	130	0.5	20	
Uranium	0.0606	mg/L	0.00030	109	70	130	0.3	20	
Sample ID: R08040287-001C	Post Digestion Spike				Run: SUB-C100732			05/07/08 01:51	
Arsenic	0.0520	mg/L	0.0010	102	70	130			
Barium	0.0607	mg/L	0.10	98	70	130			
Cadmium	0.0494	mg/L	0.010	99	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0506	mg/L	0.050	101	70	130			
Mercury	0.00502	mg/L	0.0010	100	70	130			
Nickel	0.0511	mg/L	0.050	101	70	130			
Silver	0.0144	mg/L	0.010	72	70	130			
Thorium 232	0.0518	mg/L	0.0010	103	70	130			
Uranium	0.0547	mg/L	0.00030	104	70	130			
Sample ID: R08040287-001C	Post Digestion Spike Duplicate				Run: SUB-C100732			05/07/08 01:58	
Arsenic	0.0518	mg/L	0.0010	101	70	130	0.5	20	
Barium	0.0621	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0495	mg/L	0.010	99	70	130	0.2	20	
Copper	0.0505	mg/L	0.010	100	70	130	0.1	20	
Lead	0.0513	mg/L	0.050	103	70	130	1.4	20	
Mercury	0.00510	mg/L	0.0010	102	70	130	1.6	20	
Nickel	0.0506	mg/L	0.050	100	70	130	1.1	20	
Silver	0.0151	mg/L	0.010	76	70	130	5.0	20	
Thorium 232	0.0527	mg/L	0.0010	105	70	130	1.8	20	
Uranium	0.0557	mg/L	0.00030	106	70	130	1.8	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_32094
Sample ID: MB-32094	Method Blank				Run: SUB-C100150				04/24/08 15:24
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32094	Laboratory Fortified Blank				Run: SUB-C100150				04/24/08 16:13
Mercury	0.0017	mg/L	0.0010	85	85	115			
Sample ID: B08041628-001GMS	Sample Matrix Spike				Run: SUB-C100150				04/24/08 16:23
Mercury	0.0024	mg/L	0.0010	119	70	130			
Sample ID: B08041628-001GMSD	Sample Matrix Spike Duplicate				Run: SUB-C100150				04/24/08 16:25
Mercury	0.0023	mg/L	0.0010	113	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R34283
Sample ID: LFB0804163409-3	Laboratory Fortified Blank				Run: DIONEX_080416A				04/16/08 17:55
Chloride	4.71	mg/L	0.50	94	90	110			
Fluoride	2.00	mg/L	0.10	100	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.7	mg/L	1.0	91	90	110			
Sample ID: LFB0804163409-4	Laboratory Fortified Blank				Run: DIONEX_080416A				04/16/08 18:10
Chloride	4.88	mg/L	0.50	98	90	110			
Fluoride	2.05	mg/L	0.10	102	90	110			
Nitrogen, Nitrate as N	2.31	mg/L	0.10	92	90	110			
Sulfate	13.9	mg/L	1.0	92	90	110			
Sample ID: R08040178-001CMS	Sample Matrix Spike				Run: DIONEX_080416A				04/16/08 18:57
Chloride	986	mg/L	5.4	83	80	120			
Fluoride	100	mg/L	0.56	96	80	120			
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120			
Sulfate	2210	mg/L	3.4	89	80	120			
Sample ID: R08040178-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080416A				04/16/08 19:12
Chloride	993	mg/L	5.4	85	80	120	0.6	10	
Fluoride	99.3	mg/L	0.56	95	80	120	0.8	10	
Nitrogen, Nitrate as N	110	mg/L	1.3	88	80	120	3.9	10	
Sulfate	2160	mg/L	3.4	83	80	120	2.1	10	
Sample ID: R08040165-001BMS	Sample Matrix Spike				Run: DIONEX_080416A				04/16/08 22:02
Chloride	125	mg/L	2.2	85	80	120			
Fluoride	38.3	mg/L	0.22	92	80	120			
Nitrogen, Nitrate as N	47.5	mg/L	0.50	86	80	120			
Sulfate	479	mg/L	1.3	82	80	120			
Sample ID: R08040165-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080416A				04/16/08 22:17
Chloride	127	mg/L	2.2	87	80	120	1.3	10	
Fluoride	38.9	mg/L	0.22	93	80	120	1.5	10	
Nitrogen, Nitrate as N	48.0	mg/L	0.50	87	80	120	1.1	10	
Sulfate	480	mg/L	1.3	82	80	120	0.2	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R34324
Sample ID: LFB0804184226-3	Laboratory Fortified Blank				Run: DIONEX_080418A				04/18/08 16:29
Chloride	5.04	mg/L	0.50	101	90	110			
Sample ID: LFB0804184226-4	Laboratory Fortified Blank				Run: DIONEX_080418A				04/18/08 16:44
Chloride	5.11	mg/L	0.50	102	90	110			
Sample ID: R08040220-002CMS	Sample Matrix Spike				Run: DIONEX_080418A				04/18/08 17:46
Chloride	5.21	mg/L	0.50	104	80	120			
Sample ID: R08040220-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080418A				04/18/08 18:01
Chloride	4.94	mg/L	0.50	99	80	120	5.3	10	
Method: E900.0									Batch: C_GrAB-0439
Sample ID: MB-GrAB-0439	Method Blank				Run: SUB-C100919				05/09/08 01:51
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-1	pCi/L							U
Sample ID: UNAT-GrAB-0439	Laboratory Control Sample				Run: SUB-C100919				05/09/08 01:51
Gross Alpha	250	pCi/L		100	70	130			
Sample ID: Cs137-GrAB-0439	Laboratory Control Sample				Run: SUB-C100919				05/09/08 01:51
Gross Beta	93	pCi/L		100	70	130			
Sample ID: C08041163-001BMS	Sample Matrix Spike				Run: SUB-C100919				05/09/08 01:51
Gross Alpha	260	pCi/L		102	70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100919				05/09/08 01:51
Gross Alpha	240	pCi/L		96	70	130	6.6	15.8	
Sample ID: C08041163-001BMS	Sample Matrix Spike				Run: SUB-C100919				05/09/08 01:51
Gross Beta	94	pCi/L		101	70	130			
Sample ID: C08041163-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100919				05/09/08 01:51
Gross Beta	93	pCi/L		100	70	130	1.1	16.1	
Sample ID: C08040780-005BDUP	Sample Duplicate				Run: SUB-C100919				05/09/08 14:29
Gross Alpha	24	pCi/L					2.5	58	
Gross Beta	9.0	pCi/L					18	142.4	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R99993
Sample ID: LCS-R99993	Laboratory Control Sample				Run: SUB-C99993				04/21/08 16:56
Americium 241	716	pCi/Filter	20	88	70	130			
Cesium 137	1200	pCi/Filter	20	86	70	130			
Sample ID: MB-R99993	Method Blank				Run: SUB-C99993				04/21/08 16:56
Gross Gamma		pCi/Filter							U
Sample ID: R08040178-001I	Sample Duplicate				Run: SUB-C99993				04/21/08 16:56
Gross Gamma	ND	pCi/L	20				0.0	30	U
Method: E903.0									Batch: C_R100731
Sample ID: C08040702-004KMS	Sample Matrix Spike				Run: SUB-C100731				05/05/08 12:47
Radium 226	55	pCi/L		87	70	130			
Sample ID: C08040702-004KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100731				05/05/08 14:17
Radium 226	51	pCi/L		80	70	130	7.5	26.1	
Sample ID: MB-18345	Method Blank				Run: SUB-C100731				05/06/08 05:22
Radium 226	1	pCi/L							U
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100731				05/06/08 06:52
Radium 226	9.7	pCi/L		67	70	130			S
- LCS is low. Since all other QA is acceptable this batch is approved.									
Method: E903.0									Batch: C_RA226-2757
Sample ID: C08040703-004BMS	Sample Matrix Spike				Run: SUB-C100744				05/06/08 11:39
Radium 226	11	pCi/L		87	70	130			
Sample ID: C08040703-004BMSD	Sample Matrix Spike Duplicate				Run: SUB-C100744				05/06/08 11:39
Radium 226	12	pCi/L		98	70	130	11	26.2	
Sample ID: MB-RA226-2757	Method Blank				Run: SUB-C100744				05/06/08 13:36
Radium 226	-0.01	pCi/L							U
Sample ID: LCS-RA226-2757	Laboratory Control Sample				Run: SUB-C100744				05/06/08 13:36
Radium 226	6.0	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040178

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_18345
Sample ID: C08040702-001KMS	Sample Matrix Spike				Run: SUB-C100376				04/21/08 15:00
Thorium 230	23.8	pCi/L		102	70	130			
Sample ID: C08040702-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100376				04/21/08 15:00
Thorium 230	20.7	pCi/L		88	70	130	14	30	
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100376				04/21/08 15:00
Thorium 230	54.4	pCi/L	0.20	111	70	130			
Sample ID: MB-18345	Method Blank				Run: SUB-C100376				04/21/08 15:00
Thorium 230	0.6	pCi/L							
Method: E907.0									Batch: C_R100560
Sample ID: LCS-R100560	Laboratory Control Sample				Run: SUB-C100560				04/22/08 15:00
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08030343-008CMS	Sample Matrix Spike				Run: SUB-C100560				04/22/08 15:00
Thorium 230	16.1	pCi/L	0.20	98	70	130			
Sample ID: C08030343-008CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100560				04/22/08 15:00
Thorium 230	16.5	pCi/L	0.20	101	70	130	2.5	30	
Sample ID: MB-R100560	Method Blank				Run: SUB-C100560				04/22/08 15:00
Thorium 230	ND	pCi/L							U
Method: E907.0									Batch: C_R100603
Sample ID: LCS-R100603	Laboratory Control Sample				Run: SUB-C100603				04/25/08 11:00
Thorium 230	6.60	pCi/L	0.20	94	70	130			
Sample ID: C08040863-001EMS	Sample Matrix Spike				Run: SUB-C100603				04/25/08 11:00
Thorium 230	13.7	pCi/L	0.20	85	70	130			
Sample ID: C08040863-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C100603				04/25/08 11:00
Thorium 230	16.2	pCi/L	0.20	99	70	130	17	30	
Sample ID: MB-R100603	Method Blank				Run: SUB-C100603				04/25/08 11:00
Thorium 230	1E-05	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: Powertech (RESPEC)

Project Name, PWS #, Permit #, Etc.: Powertech Dewey Burdock

Report Mail Address: RESPEC

Contact Name, Phone, Fax, E-mail: Cory Forman

Sampler Name if other than Contact:

Invoice Address: ~~Rt Pa~~

Invoice Contact & Phone #:

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

Number of Containers / Sample Type: A W S V B O / Air Water Solids/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	As Pb Ra Rn	Ra Pb 210	Po 210 Pb							SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	~~Dew Burd~~ CHR05	4/14/08	11:00		X	X	X										CHR@ Pariette Bottle set 23	0804017 8-001
2	DrewBurd CHR05	4/14/08	11:05		X	X	X										CHR@ Pariette Bottle set 24	002
3	DrewBurd BUC04	4/14/08	14:55		X	X	X										BUC@ Old Bases Bottle set 27	003
4	DrewBurd BUC01	4/14/08	18:43		X	X	X										BUC@ Dan Anderson's Bottle set 28	004
5																		
6																		
7																		
8																		
9																		
10																		

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 2.9 °C on ice

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by: Cory Forman Date/Time: 4/15/08

Relinquished by: Date/Time:

Shipped by:

Shipped by:

Received by: Date/Time:

Received by: Linda Sa 4/15/08 0838

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

June 24, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08040220 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 4/17/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08040220-001	DewBurd CHR01	04/16/08 15:30	04/17/08	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Bacteria, Fecal Coliform
					Conductivity
					Chromium, Hexavalent
					Chromium, Trivalent
					Mercury, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium-VI, Total
					Anions by Ion Chromatography
					Nitrogen, Ammonia
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, Total Metals
					Digestion, As/Se by Hydride
					Dissolved Filtration
					Digestion, Mercury by CVAA
					Gross Alpha, Gross Beta
					Gross Gamma
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Thorium, Isotopic
					Sodium Adsorption Ratio
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended

R08040220-002	DewBurd BLK01	04/16/08 15:45 04/17/08	Aqueous	Metals by ICP/ICPMS, Dissolved
				Metals by ICP/ICPMS, Suspended
				Metals by ICP/ICPMS, Total
				Alkalinity
				Bacteria, Fecal Coliform
				Conductivity
				Chromium, Hexavalent
				Chromium, Trivalent
				Mercury, Total
				Selenium, Dissolved
				Selenium, Total
				Selenium, Dissolved
				Selenium, Total
				Selenium, Dissolved
				Selenium-VI, Total
				Anions by Ion Chromatography
				Nitrogen, Ammonia
				pH
				Metals Digestion by EPA 200.2
				Digestion, Total Metals
				Digestion, Total Metals
				Digestion, As/Se by Hydride
				Dissolved Filtration
				Digestion, Mercury by CVAA
				Gross Alpha, Gross Beta
				Gross Gamma
				Radium 226, Dissolved
				Radium 226, Suspended
				Radium 226, Total
				Thorium, Isotopic
				Thorium, Suspended Isotopic
				Thorium, Isotopic
				Sodium Adsorption Ratio
				Suspended Sediment Concentration
				Solids, Total Dissolved
				Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: _____
Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-001
Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
Collection Date: 04/16/08 15:30
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/17/08 15:30/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	248	mg/L		5		1	A2320 B	04/18/08 11:54/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/18/08 11:54/mb
Bicarbonate as HCO3	302	mg/L		5		1	A2320 B	04/18/08 11:54/mb
Calcium	370	mg/L		0.5		2	E200.7	04/30/08 17:35/eli-c
Chloride	156	mg/L	D	5		50	E300.0	04/18/08 16:59/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/18/08 17:15/jmh
Magnesium	175	mg/L		0.5		2	E200.7	04/30/08 17:35/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 15:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/18/08 17:15/jmh
Potassium	26	mg/L		1		2	E200.7	04/30/08 17:35/eli-c
Silica	6.4	mg/L		0.5		2	E200.7	04/30/08 17:35/eli-c
Sodium	1140	mg/L	D	0.6		10	E200.7	05/01/08 15:41/eli-c
Sulfate	3690	mg/L	D	3		50	E300.0	04/18/08 16:59/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	6600	umhos/cm		5.0		1	A2510 B	04/21/08 16:58/jmh
pH	8.03	s.u.		0.01		1	A4500-H B	04/21/08 16:40/jmh
Sodium Adsorption Ratio (SAR)	12	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	5	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	5700	mg/L		5		1	A2540 C	04/22/08 13:55/mb
Solids, Total Suspended TSS @ 105 C	8	mg/L		5		1	A2540 D	04/21/08 08:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	04/30/08 17:35/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/05/08 19:34/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/02/08 02:16/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	04/30/08 17:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/02/08 02:16/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	04/30/08 17:35/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 19:34/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/30/08 17:35/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/02/08 02:16/eli-c
Manganese	0.68	mg/L		0.01		2	E200.7	04/30/08 17:35/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/02/08 02:16/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/30/08 17:35/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-001
Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
Collection Date: 04/16/08 15:30
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/05/08 19:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 19:34/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/02/08 02:16/eli-c
Uranium	0.0324	mg/L		0.0003		1	E200.8	05/02/08 02:16/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 17:35/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	04/30/08 17:35/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:45/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	05/01/08 20:45/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	05/05/08 15:10/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 22:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/30/08 21:27/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	04/17/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	05/05/08 15:10/eli-c
Iron	0.49	mg/L		0.03		2	E200.7	04/30/08 21:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 22:46/eli-c
Manganese	0.68	mg/L		0.01		2	E200.7	04/30/08 21:27/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	05/01/08 22:46/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Nickel	ND	mg/L		0.05		1	E200.8	05/05/08 15:10/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 15:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 22:46/eli-c
Uranium	0.0365	mg/L		0.0003		1	E200.8	05/01/08 22:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 21:27/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/05/08 15:10/eli-c
Calcium	366	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Magnesium	171	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Potassium	22.1	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Silica	6.3	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c
Sodium	1140	mg/L		0.5		2	E200.7	04/30/08 21:27/eli-c

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-001
Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
Collection Date: 04/16/08 15:30
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/23/08 16:54/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/23/08 15:32/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/24/08 09:22/eli-ca
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/23/08 17:03/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/23/08 15:41/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/24/08 09:22/eli-ca
RADIONUCLIDES - DISSOLVED								
Radium 226	0.3	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.1	pCi/L	U			1	E903.0	05/05/08 20:19/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/05/08 20:19/eli-c
Radium 226 MDC	0.9	pCi/L				1	E903.0	05/05/08 20:19/eli-c
Thorium 230	0.2	pCi/L	U			1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.7	pCi/L	U			1	E900.0	05/01/08 12:00/eli-c
Gross Alpha precision (±)	14.8	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Alpha MDC	24.4	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Beta	-9.2	pCi/L	U			1	E900.0	05/01/08 12:00/eli-c
Gross Beta precision (±)	10.9	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Beta MDC	18.5	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.1	pCi/L	U			1	E903.0	05/29/08 17:44/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	05/29/08 17:44/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	05/29/08 17:44/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	05/29/08 17:44/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-001
Client Sample ID: DewBurd CHR01

Report Date: 06/24/08
Collection Date: 04/16/08 15:30
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:26/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.81					1	A1030 E	06/17/08 00:00/ADM
Anions	86.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Cations	83.1	meq/L				1	A1030 E	06/17/08 00:00/ADM
Solids, Total Dissolved Calculated	5720	mg/L				1	A1030 E	06/17/08 00:00/ADM
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	06/17/08 00:00/ADM

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-002
Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
Collection Date: 04/16/08 15:45
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	04/17/08 15:30/jmh
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	04/18/08 11:57/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	04/18/08 11:57/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	04/18/08 11:57/mb
Calcium	ND	mg/L		0.5		2	E200.7	04/30/08 17:42/eli-c
Chloride	ND	mg/L		1		1	E300.0	04/18/08 17:30/jmh
Fluoride	ND	mg/L		0.1		1	E300.0	04/18/08 17:30/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	04/30/08 17:42/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	04/17/08 16:00/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	04/18/08 17:30/jmh
Potassium	1	mg/L		1		2	E200.7	04/30/08 17:42/eli-c
Silica	ND	mg/L		0.5		2	E200.7	04/30/08 17:42/eli-c
Sodium	3.7	mg/L		0.5		2	E200.7	04/30/08 17:42/eli-c
Sulfate	ND	mg/L		1		1	E300.0	04/18/08 17:30/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	8.4	umhos/cm		5.0		1	A2510 B	04/21/08 17:00/jmh
pH	5.78	s.u.		0.01		1	A4500-H B	04/21/08 16:43/jmh
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	06/17/08 11:18/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	04/23/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	04/23/08 18:33/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	04/21/08 08:52/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	05/01/08 07:02/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/01/08 07:02/eli-c
Barium	ND	mg/L		0.1		1	E200.8	05/01/08 07:02/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/30/08 17:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 07:02/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
Copper	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/30/08 17:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 07:02/eli-c
Manganese	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	05/01/08 07:02/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	05/01/08 07:02/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-002
Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
Collection Date: 04/16/08 15:45
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/01/08 07:02/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 07:02/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 07:02/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	05/01/08 07:02/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/01/08 07:02/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	05/01/08 20:52/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8	05/01/08 20:52/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	05/01/08 22:53/eli-c
Barium	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	05/01/08 22:53/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	04/30/08 21:41/eli-c
Chromium, Hexavalent	0.02	mg/L	*	0.005		1	A3500-Cr B	04/17/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	06/17/08 00:00/ADM
Copper	ND	mg/L		0.01		1	E200.8	05/01/08 22:53/eli-c
Iron	ND	mg/L		0.03		2	E200.7	04/30/08 21:41/eli-c
Lead	ND	mg/L		0.001		1	E200.8	05/01/08 22:53/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	04/30/08 21:41/eli-c
Mercury	ND	mg/L		0.0001		1	E200.8	05/01/08 22:53/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	04/30/08 21:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	05/05/08 15:16/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	05/01/08 22:53/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	05/01/08 22:53/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	04/30/08 21:41/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	05/05/08 15:16/eli-c
Calcium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Magnesium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Potassium	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Silica	ND	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c
Sodium	1.5	mg/L		0.5		2	E200.7	04/30/08 21:41/eli-c

*Lab contamination

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.
* - The result exceeds the MCL.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-002
Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
Collection Date: 04/16/08 15:45
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/23/08 17:01/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/23/08 15:39/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/24/08 09:22/eli-ca
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	04/23/08 17:14/eli-ca
Selenium-IV	ND	mg/L		0.001		1	A3114 B	04/23/08 15:49/eli-ca
Selenium-VI	ND	mg/L		0.001		1	A3114 B	04/24/08 09:22/eli-ca
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	05/05/08 15:41/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	04/25/08 11:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	04/25/08 11:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	1.2	pCi/L				1	E903.0	05/05/08 21:50/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	05/05/08 21:50/eli-c
Radium 226 MDC	0.9	pCi/L				1	E903.0	05/05/08 21:50/eli-c
Thorium 230	0.1	pCi/L	U			1	E907.0	04/21/08 15:00/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	04/21/08 15:00/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	-1.0	pCi/L	U			1	E900.0	05/01/08 12:00/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Alpha MDC	1.1	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Beta	-1.4	pCi/L	U			1	E900.0	05/01/08 12:00/eli-c
Gross Beta precision (±)	1.5	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0	05/01/08 12:00/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	04/21/08 16:56/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	04/21/08 16:56/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	1.4	pCi/L				1	E903.0	05/29/08 17:44/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	05/29/08 17:44/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	05/29/08 17:44/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	05/29/08 17:44/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08040220-002
Client Sample ID: DewBurd BLK01

Report Date: 06/24/08
Collection Date: 04/16/08 15:45
Date Received: 04/17/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	05/06/08 16:29/eli-b
*Lab contamination								

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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080418A-ALK-SEL-W	
Sample ID: LCS1_080418A	Laboratory Control Sample				Run: PH_COND1-R_080418D			04/18/08 11:20	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Method: A2510 B								Batch: 080421_1_COND-PROBE-W	
Sample ID: LCS1-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:49	
Conductivity @ 25 C	147	umhos/cm	5.0	98	90	110			
Sample ID: LCS2-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:50	
Conductivity @ 25 C	5100	umhos/cm	5.0	102	90	110			
Sample ID: LCS_COND-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:51	
Conductivity @ 25 C	1440	umhos/cm	5.0	102	90	110			
Sample ID: MBLK-1_080421	Method Blank				Run: PH_COND2-R_080421B			04/21/08 16:52	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08040178-001CDUP	Sample Duplicate				Run: PH_COND2-R_080421B			04/21/08 16:54	
Conductivity @ 25 C	5220	umhos/cm	5.0				1.4	10	
Method: A2540 C								Batch: 080422A-SLDS-TDS-W	
Sample ID: LCS1_080422A	Laboratory Control Sample				Run: BAL-4-R_080422E			04/22/08 13:53	
Solids, Total Dissolved TDS @ 180 C	230	mg/L	5.0	110	90	110			
Sample ID: MBLK1_080422A	Method Blank				Run: BAL-4-R_080422E			04/22/08 14:05	
Solids, Total Dissolved TDS @ 180 C	10	mg/L	3						
Sample ID: R08040250-007AMS	Sample Matrix Spike				Run: BAL-4-R_080422E			04/22/08 14:03	
Solids, Total Dissolved TDS @ 180 C	2500	mg/L	5.0	119	80	120			
Sample ID: R08040250-007AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080422E			04/22/08 14:04	
Solids, Total Dissolved TDS @ 180 C	2500	mg/L	5.0	116	80	120	0.2	10	
Method: A2540 D								Batch: 080421A-SLDS-TSS-W	
Sample ID: LCS1_080421A	Laboratory Control Sample				Run: BAL-4-R_080421B			04/21/08 08:42	
Solids, Total Suspended TSS @ 105 C	180	mg/L	5.0	88	85	115			
Sample ID: MBLK1_080421A	Method Blank				Run: BAL-4-R_080421B			04/21/08 08:43	
Solids, Total Suspended TSS @ 105 C	4	mg/L	2						
Sample ID: R08040227-001ADUP	Sample Duplicate				Run: BAL-4-R_080421B			04/21/08 08:54	
Solids, Total Suspended TSS @ 105 C	20	mg/L	5.0				11	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE-3114-080423B	
Sample ID: MBLK	Method Blank				Run: SUB-C100062			04/23/08 16:43	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-62-1	Laboratory Control Sample				Run: SUB-C100062			04/23/08 16:52	
Selenium	0.051	mg/L	0.0010	102	90	110			
Sample ID: R08040220-001A	Sample Matrix Spike				Run: SUB-C100062			04/23/08 16:56	
Selenium	0.049	mg/L	0.0010	98	85	115			
Sample ID: R08040220-001A	Sample Matrix Spike Duplicate				Run: SUB-C100062			04/23/08 16:58	
Selenium	0.050	mg/L	0.0010	101	85	115	2.8	10	
Sample ID: R08040220-001H	Sample Matrix Spike				Run: SUB-C100062			04/23/08 17:05	
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R08040220-001H	Sample Matrix Spike Duplicate				Run: SUB-C100062			04/23/08 17:11	
Selenium	0.043	mg/L	0.0010	87	85	115	17	10	R
Method: A3114 B								Batch: C_SEIV-3114-080423A	
Sample ID: MBLK	Method Blank				Run: SUB-C100052			04/23/08 15:28	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-62-1	Laboratory Control Sample				Run: SUB-C100052			04/23/08 15:30	
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08040220-001A	Sample Matrix Spike				Run: SUB-C100052			04/23/08 15:35	
Selenium-IV	0.047	mg/L	0.0010	94	85	115			
Sample ID: R08040220-001A	Sample Matrix Spike Duplicate				Run: SUB-C100052			04/23/08 15:37	
Selenium-IV	0.046	mg/L	0.0010	92	85	115	2.0	10	
Sample ID: R08040220-001H	Sample Matrix Spike				Run: SUB-C100052			04/23/08 15:43	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08040220-001H	Sample Matrix Spike Duplicate				Run: SUB-C100052			04/23/08 15:47	
Selenium-IV	0.045	mg/L	0.0010	90	85	115	2.1	10	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080417-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080417A			04/17/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080417A			04/17/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Sample ID: R08040220-001E	Sample Matrix Spike				Run: SPEC1_080417A			04/17/08 00:00	
Chromium, Hexavalent	0.20	mg/L	0.0050	99	80	120			
Sample ID: R08040220-002E	Sample Matrix Spike				Run: SPEC1_080417A			04/17/08 00:00	
Chromium, Hexavalent	0.18	mg/L	0.0050	80	80	120			
Method: A4500-H B								Batch: 080421_1_PH-W	
Sample ID: LCS_pH-1_080421	Laboratory Control Sample				Run: PH_COND2-R_080421B			04/21/08 16:27	
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08040178-001CDUP	Sample Duplicate				Run: PH_COND2-R_080421B			04/21/08 16:29	
pH	8.11	s.u.	0.010				0.1	1.25	
Method: A4500-NH3 G								Batch: A2008-04-17_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080417A			04/17/08 10:21	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080417A			04/17/08 10:22	
Nitrogen, Ammonia as N	0.24	mg/L	0.10	98	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080417A			04/17/08 10:23	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	101	90	110			
Sample ID: R08040217-005CMS	Sample Matrix Spike				Run: TECHAA2-R_080417A			04/17/08 15:53	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	88	80	120			
Sample ID: R08040217-005CMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080417A			04/17/08 15:54	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	88	80	120	0.0	10	
Method: A9222 D								Batch: 080417-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080417A			04/17/08 15:30	
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18370
Sample ID: MB-18370	Method Blank				Run: SUB-C100499				04/30/08 21:03
Aluminum	0.0007	mg/L	0.0007						
Barium	0.004	mg/L	0.004						
Boron	ND	mg/L	0.006						
Calcium	ND	mg/L	0.1						
Chromium	0.005	mg/L	0.003						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.1						
Manganese	ND	mg/L	0.0008						
Molybdenum	ND	mg/L	0.01						
Nickel	ND	mg/L	0.02						
Potassium	0.3	mg/L	0.08						
Silica	ND	mg/L	0.04						
Sodium	0.4	mg/L	0.1						
Vanadium	ND	mg/L	0.006						
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100499				04/30/08 21:07
Aluminum	0.486	mg/L	0.10	97	85	115			
Barium	0.479	mg/L	0.10	95	85	115			
Boron	0.499	mg/L	0.10	100	85	115			
Calcium	53.2	mg/L	1.0	106	85	115			
Chromium	0.510	mg/L	0.050	101	85	115			
Iron	0.498	mg/L	0.030	100	85	115			
Magnesium	53.5	mg/L	1.0	107	85	115			
Manganese	0.482	mg/L	0.010	96	85	115			
Molybdenum	0.534	mg/L	0.10	107	85	115			
Nickel	0.425	mg/L	0.050	85	85	115			
Potassium	48.8	mg/L	1.0	97	85	115			
Silica	0.526	mg/L	0.10	105	85	115			
Sodium	53.3	mg/L	1.0	106	85	115			
Vanadium	0.523	mg/L	0.10	105	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike				Run: SUB-C100499				04/30/08 21:44
Aluminum	0.475	mg/L	0.10	95	70	130			
Barium	0.480	mg/L	0.10	94	70	130			
Boron	0.466	mg/L	0.10	93	70	130			
Calcium	52.1	mg/L	1.0	104	70	130			
Chromium	0.488	mg/L	0.050	96	70	130			
Iron	0.473	mg/L	0.030	95	70	130			
Magnesium	53.2	mg/L	1.0	106	70	130			
Manganese	0.465	mg/L	0.010	93	70	130			
Molybdenum	0.475	mg/L	0.10	95	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18370
Sample ID: R08040220-002B	Sample Matrix Spike				Run: SUB-C100499				04/30/08 21:44
Nickel	0.390	mg/L	0.050	78	70	130			
Potassium	47.6	mg/L	1.0	94	70	130			
Silica	0.441	mg/L	0.10		0	0			
Sodium	53.2	mg/L	1.0	103	70	130			
Vanadium	0.497	mg/L	0.10	99	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate				Run: SUB-C100499				04/30/08 21:47
Aluminum	0.483	mg/L	0.10	97	70	130	1.7	20	
Barium	0.483	mg/L	0.10	95	70	130	0.5	20	
Boron	0.473	mg/L	0.10	95	70	130	1.5	20	
Calcium	52.3	mg/L	1.0	105	70	130	0.4	20	
Chromium	0.498	mg/L	0.050	98	70	130	2.0	20	
Iron	0.482	mg/L	0.030	96	70	130	1.9	20	
Magnesium	53.3	mg/L	1.0	107	70	130	0.2	20	
Manganese	0.471	mg/L	0.010	94	70	130	1.3	20	
Molybdenum	0.493	mg/L	0.10	99	70	130	3.7	20	
Nickel	0.357	mg/L	0.050	71	70	130	8.8	20	
Potassium	48.1	mg/L	1.0	95	70	130	1.2	20	
Silica	0.458	mg/L	0.10		0	0			
Sodium	53.1	mg/L	1.0	103	70	130	0.1	20	
Vanadium	0.507	mg/L	0.10	101	70	130	2.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R100499
Sample ID: MB-080430A	Method Blank				Run: SUB-C100499				04/30/08 14:33
Silica	ND	mg/L	0.06						
Aluminum	ND	mg/L	0.008						
Boron	0.006	mg/L	0.004						
Calcium	ND	mg/L	0.04						
Chromium	ND	mg/L	0.003						
Iron	ND	mg/L	0.002						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0004						
Molybdenum	ND	mg/L	0.01						
Potassium	0.08	mg/L	0.08						
Sodium	0.07	mg/L	0.06						
Vanadium	ND	mg/L	0.006						
Zinc	0.006	mg/L	0.004						
Sample ID: LFB-080430A	Laboratory Fortified Blank				Run: SUB-C100499				04/30/08 14:36
Silica	0.99	mg/L	0.10	99	85	125			
Aluminum	0.92	mg/L	0.10	92	85	125			
Boron	0.97	mg/L	0.10	96	85	125			
Calcium	52	mg/L	0.50	104	85	125			
Chromium	0.95	mg/L	0.050	95	85	125			
Iron	0.93	mg/L	0.030	93	85	125			
Magnesium	52	mg/L	0.50	105	85	125			
Manganese	0.92	mg/L	0.010	92	85	125			
Molybdenum	0.97	mg/L	0.10	97	85	125			
Potassium	48	mg/L	0.50	96	85	125			
Sodium	51	mg/L	0.50	102	85	125			
Vanadium	0.99	mg/L	0.10	99	85	125			
Zinc	0.96	mg/L	0.010	95	85	125			
Sample ID: C07071195-037BMS2	Sample Matrix Spike				Run: SUB-C100499				04/30/08 14:43
Aluminum	4.45	mg/L	0.10	87	70	130			
Boron	4.99	mg/L	0.10	93	70	130			
Chromium	4.62	mg/L	0.050	91	70	130			
Iron	4.66	mg/L	0.030	91	70	130			
Manganese	4.88	mg/L	0.010	90	70	130			
Molybdenum	4.95	mg/L	0.10	95	70	130			
Vanadium	4.89	mg/L	0.10	96	70	130			
Zinc	4.87	mg/L	0.021	95	70	130			
Calcium	715	mg/L	1.0	94	70	130			
Magnesium	319	mg/L	1.0	100	70	130			
Potassium	304	mg/L	1.0	93	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R100499	
Sample ID: C07071195-037BMS2	Sample Matrix Spike				Run: SUB-C100499			04/30/08 14:43	
Silica	35.3	mg/L	0.29		70	130			A
Sodium	579	mg/L	1.0	90	70	130			
Sample ID: C07071195-037BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C100499			04/30/08 14:46	
Aluminum	4.50	mg/L	0.10	88	70	130	1.1	20	
Boron	5.12	mg/L	0.10	95	70	130	2.4	20	
Chromium	4.66	mg/L	0.050	91	70	130	0.8	20	
Iron	4.73	mg/L	0.030	93	70	130	1.5	20	
Manganese	4.90	mg/L	0.010	90	70	130	0.4	20	
Molybdenum	4.98	mg/L	0.10	96	70	130	0.7	20	
Vanadium	4.93	mg/L	0.10	97	70	130	0.8	20	
Zinc	4.87	mg/L	0.021	95	70	130	0.0	20	
Calcium	717	mg/L	1.0	95	70	130	0.3	20	
Magnesium	320	mg/L	1.0	101	70	130	0.3	20	
Potassium	305	mg/L	1.0	93	70	130	0.3	20	
Silica	36.1	mg/L	0.29		70	130	2.0	20	A
Sodium	578	mg/L	1.0	89	70	130	0.2	20	
Method: E200.7								Batch: C_R100523	
Sample ID: MB-080430A	Method Blank				Run: SUB-C100523			05/01/08 14:11	
Sodium	ND	mg/L	0.06						
Sample ID: LFB-080430A	Laboratory Fortified Blank				Run: SUB-C100523			05/01/08 14:14	
Sodium	51	mg/L	0.50	102	85	125			
Sample ID: C08050024-002AMS	Sample Matrix Spike				Run: SUB-C100523			05/01/08 14:48	
Sodium	66.1	mg/L	1.0	96	70	130			
Sample ID: C08050024-002AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100523			05/01/08 14:52	
Sodium	67.0	mg/L	1.0	97	70	130	1.4	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18345
Sample ID: MB-18345	Method Blank				Run: SUB-C100506				05/01/08 20:05
Thorium 232	0.0002	mg/L							
Uranium	2E-05	mg/L	2E-05						
Sample ID: LCS1-18345	Laboratory Control Sample				Run: SUB-C100506				05/01/08 20:12
Uranium	0.0548	mg/L	0.00030	104	80	120			
Sample ID: R08040220-002K	Post Digestion Spike				Run: SUB-C100506				05/01/08 20:58
Thorium 232	0.0242	mg/L	0.0010	97	70	130			
Uranium	0.0255	mg/L	0.00030	98	70	130			
Sample ID: R08040220-002K	Post Digestion Spike Duplicate				Run: SUB-C100506				05/01/08 21:25
Thorium 232	0.0246	mg/L	0.0010	98	70	130	1.6	20	
Uranium	0.0257	mg/L	0.00030	99	70	130	1.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18370
Sample ID: MB-18370	Method Blank				Run: SUB-C100506				05/01/08 21:32
Arsenic	ND	mg/L	5E-05						
Cadmium	ND	mg/L	4E-05						
Copper	ND	mg/L	0.0002						
Lead	2E-05	mg/L							
Thorium 232	0.00010	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100506				05/01/08 21:39
Arsenic	0.561	mg/L	0.0010	112	85	115			
Cadmium	0.521	mg/L	0.010	104	85	115			
Copper	0.557	mg/L	0.010	111	85	115			
Lead	0.544	mg/L	0.050	109	85	115			
Thorium 232	0.548	mg/L	0.0010	110	85	115			
Uranium	0.545	mg/L	0.00032	109	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike				Run: SUB-C100506				05/01/08 23:00
Arsenic	0.513	mg/L	0.0010	103	70	130			
Cadmium	0.499	mg/L	0.010	100	70	130			
Copper	0.504	mg/L	0.010	101	70	130			
Lead	0.512	mg/L	0.050	102	70	130			
Thorium 232	0.514	mg/L	0.0010	103	70	130			
Uranium	0.514	mg/L	0.00032	103	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate				Run: SUB-C100506				05/01/08 23:06
Arsenic	0.551	mg/L	0.0010	110	70	130	7.2	20	
Cadmium	0.488	mg/L	0.010	98	70	130	2.3	20	
Copper	0.528	mg/L	0.010	106	70	130	4.8	20	
Lead	0.508	mg/L	0.050	102	70	130	0.8	20	
Thorium 232	0.514	mg/L	0.0010	103	70	130	0.1	20	
Uranium	0.516	mg/L	0.00032	103	70	130	0.5	20	
Sample ID: MB-18370	Method Blank				Run: SUB-C100685				05/05/08 14:02
Arsenic	0.0002	mg/L	5E-05						
Copper	ND	mg/L	0.0001						
Nickel	ND	mg/L	6E-05						
Silver	ND	mg/L	5E-05						
Zinc	0.003	mg/L	0.0003						
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100685				05/05/08 14:09
Arsenic	0.559	mg/L	0.0010	112	85	115			
Copper	0.532	mg/L	0.010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18370
Sample ID: LCS-18370	Laboratory Control Sample				Run: SUB-C100685				05/05/08 14:09
Nickel	0.543	mg/L	0.050	109	85	115			
Silver	0.195	mg/L	0.010	98	85	115			
Zinc	0.551	mg/L	0.010	110	85	115			
Sample ID: R08040220-002B	Sample Matrix Spike				Run: SUB-C100685				05/05/08 15:23
Arsenic	0.523	mg/L	0.0010	105	70	130			
Copper	0.504	mg/L	0.010	101	70	130			
Nickel	0.509	mg/L	0.050	102	70	130			
Silver	0.186	mg/L	0.010	93	70	130			
Zinc	0.527	mg/L	0.010	105	70	130			
Sample ID: R08040220-002B	Sample Matrix Spike Duplicate				Run: SUB-C100685				05/05/08 15:30
Arsenic	0.515	mg/L	0.0010	103	70	130	1.5	20	
Copper	0.497	mg/L	0.010	99	70	130	1.5	20	
Nickel	0.505	mg/L	0.050	101	70	130	0.7	20	
Silver	0.169	mg/L	0.010	84	70	130	9.5	20	
Zinc	0.519	mg/L	0.010	103	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R100440
Sample ID: LRB	Method Blank				Run: SUB-C100440				04/30/08 12:23
Aluminum	ND	mg/L	0.0001						
Arsenic	9E-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						
Silver	ND	mg/L	3E-05						
Thorium 232	9E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100440				04/30/08 12:30
Aluminum	0.0512	mg/L	0.0010	102	85	115			
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Barium	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0518	mg/L	0.0010	104	85	115			
Chromium	0.0517	mg/L	0.0010	103	85	115			
Copper	0.0518	mg/L	0.0010	104	85	115			
Lead	0.0518	mg/L	0.0010	104	85	115			
Manganese	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00522	mg/L	0.0010	104	85	115			
Molybdenum	0.0528	mg/L	0.0010	106	85	115			
Nickel	0.0519	mg/L	0.0010	104	85	115			
Silver	0.0204	mg/L	0.0010	102	85	115			
Thorium 232	0.0517	mg/L	0.0010	103	85	115			
Uranium	0.0519	mg/L	0.00030	104	85	115			
Vanadium	0.0514	mg/L	0.0010	103	85	115			
Zinc	0.0525	mg/L	0.0010	105	85	115			
Sample ID: C08040794-001BMS4	Post Digestion Spike				Run: SUB-C100440				05/01/08 06:48
Aluminum	0.0488	mg/L	0.10	97	70	130			
Arsenic	0.0849	mg/L	0.0010	106	70	130			
Barium	0.0787	mg/L	0.10	104	70	130			
Cadmium	0.0480	mg/L	0.010	96	70	130			
Chromium	0.0495	mg/L	0.050	98	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R100440
Sample ID: C08040794-001BMS4	Post Digestion Spike				Run: SUB-C100440				05/01/08 06:48
Copper	0.0490	mg/L	0.010	96	70	130			
Lead	0.0508	mg/L	0.050	101	70	130			
Manganese	0.0910	mg/L	0.010	97	70	130			
Mercury	0.00522	mg/L	0.0010	104	70	130			
Molybdenum	0.0678	mg/L	0.10	104	70	130			
Nickel	0.0506	mg/L	0.050	96	70	130			
Silver	0.0181	mg/L	0.010	90	70	130			
Thorium 232	0.0533	mg/L	0.0010	106	70	130			
Uranium	0.0545	mg/L	0.00030	105	70	130			
Vanadium	0.0506	mg/L	0.10	101	70	130			
Zinc	0.0756	mg/L	0.010	95	70	130			
Sample ID: C08040794-001BMSD4	Post Digestion Spike Duplicate				Run: SUB-C100440				05/01/08 06:55
Aluminum	0.0502	mg/L	0.10	100	70	130	0.0	20	
Arsenic	0.0854	mg/L	0.0010	107	70	130	0.5	20	
Barium	0.0790	mg/L	0.10	104	70	130	0.0	20	
Cadmium	0.0496	mg/L	0.010	99	70	130	3.3	20	
Chromium	0.0483	mg/L	0.050	96	70	130	0.0	20	
Copper	0.0501	mg/L	0.010	98	70	130	2.4	20	
Lead	0.0507	mg/L	0.050	101	70	130	0.3	20	
Manganese	0.0891	mg/L	0.010	93	70	130	2.2	20	
Mercury	0.00528	mg/L	0.0010	106	70	130	1.1	20	
Molybdenum	0.0696	mg/L	0.10	107	70	130	0.0	20	
Nickel	0.0527	mg/L	0.050	100	70	130	4.0	20	
Silver	0.0192	mg/L	0.010	96	70	130	6.2	20	
Thorium 232	0.0530	mg/L	0.0010	106	70	130	0.6	20	
Uranium	0.0538	mg/L	0.00030	104	70	130	1.2	20	
Vanadium	0.0495	mg/L	0.10	99	70	130	0.0	20	
Zinc	0.0762	mg/L	0.010	96	70	130	0.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R100506	
Sample ID: LRB	Method Blank				Run: SUB-C100506			05/01/08 12:04	
Barium	ND	mg/L	3E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Thorium 232	0.0001	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100506			05/01/08 12:10	
Barium	0.0469	mg/L	0.0010	94	85	115			
Cadmium	0.0468	mg/L	0.0010	94	85	115			
Lead	0.0480	mg/L	0.0010	96	85	115			
Mercury	0.00484	mg/L	0.0010	97	85	115			
Thorium 232	0.0476	mg/L	0.0010	95	85	115			
Uranium	0.0479	mg/L	0.00030	96	85	115			
Sample ID: R08040220-001A	Post Digestion Spike				Run: SUB-C100506			05/02/08 02:22	
Barium	0.0880	mg/L	0.10	108	70	130			
Cadmium	0.0427	mg/L	0.010	85	70	130			
Lead	0.0549	mg/L	0.050	110	70	130			
Mercury	0.00538	mg/L	0.0010	108	70	130			
Thorium 232	0.0608	mg/L	0.0010	121	70	130			
Uranium	0.0934	mg/L	0.00030	122	70	130			
Sample ID: R08040220-001A	Post Digestion Spike Duplicate				Run: SUB-C100506			05/02/08 02:29	
Barium	0.0848	mg/L	0.10	101	70	130	0.0	20	
Cadmium	0.0408	mg/L	0.010	82	70	130	4.5	20	
Lead	0.0532	mg/L	0.050	106	70	130	3.2	20	
Mercury	0.00524	mg/L	0.0010	105	70	130	2.7	20	
Thorium 232	0.0589	mg/L	0.0010	118	70	130	3.2	20	
Uranium	0.0906	mg/L	0.00030	116	70	130	3.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R100685	
Sample ID: LRB	Method Blank				Run: SUB-C100685			05/05/08 13:42	
Arsenic	ND	mg/L	6E-05						
Copper	ND	mg/L	7E-05						
Nickel	ND	mg/L	0.0007						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C100685			05/05/08 13:48	
Arsenic	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0527	mg/L	0.0010	105	85	115			
Nickel	0.0527	mg/L	0.0010	105	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Sample ID: R08040250-007C	Post Digestion Spike				Run: SUB-C100685			05/05/08 23:16	
Arsenic	0.0602	mg/L	0.0010	106	70	130			
Copper	0.0495	mg/L	0.010	94	70	130			
Nickel	0.0568	mg/L	0.050	107	70	130			
Silver	0.00973	mg/L	0.010	49	70	130			S
Sample ID: R08040250-007C	Post Digestion Spike Duplicate				Run: SUB-C100685			05/05/08 23:23	
Arsenic	0.0629	mg/L	0.0010	111	70	130	4.3	20	
Copper	0.0518	mg/L	0.010	99	70	130	4.6	20	
Nickel	0.0635	mg/L	0.050	121	70	130	11	20	
Silver	0.00999	mg/L	0.010	50	70	130	0.0	20	S
Sample ID: C08040936-001AMS	Sample Matrix Spike				Run: SUB-C100685			05/06/08 03:00	
Arsenic	0.56	mg/L	0.0010	104	70	130			
Copper	0.49	mg/L	0.0015	98	70	130			
Nickel	0.50	mg/L	0.0010	98	70	130			
Silver	0.027	mg/L	0.0010	13	70	130			S
Sample ID: C08040936-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100685			05/06/08 03:07	
Arsenic	0.56	mg/L	0.0010	104	70	130	0.5	20	
Copper	0.50	mg/L	0.0015	99	70	130	1.8	20	
Nickel	0.51	mg/L	0.0010	100	70	130	2.3	20	
Silver	0.038	mg/L	0.0010	19	70	130	35	20	SR

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_32271
Sample ID: MB-32271	Method Blank				Run: SUB-C100762				05/06/08 16:10
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-32271	Laboratory Fortified Blank				Run: SUB-C100762				05/06/08 16:12
Mercury	0.0019	mg/L	0.0010	93	85	115			
Sample ID: B08050167-003CMS	Sample Matrix Spike				Run: SUB-C100762				05/06/08 16:22
Mercury	0.0019	mg/L	0.0010	97	70	130			
Sample ID: B08050167-003CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100762				05/06/08 16:24
Mercury	0.0021	mg/L	0.0010	105	70	130	8.4	30	
Method: E300.0									Batch: R34324
Sample ID: LFB0804184226-3	Laboratory Fortified Blank				Run: DIONEX_080418A				04/18/08 16:29
Chloride	5.04	mg/L	0.50	101	90	110			
Fluoride	2.10	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0804184226-4	Laboratory Fortified Blank				Run: DIONEX_080418A				04/18/08 16:44
Chloride	5.11	mg/L	0.50	102	90	110			
Fluoride	2.10	mg/L	0.10	105	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.0	mg/L	1.0	93	90	110			
Sample ID: R08040220-002CMS	Sample Matrix Spike				Run: DIONEX_080418A				04/18/08 17:46
Chloride	5.21	mg/L	0.50	104	80	120			
Fluoride	2.08	mg/L	0.10	104	80	120			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	80	120			
Sulfate	14.2	mg/L	1.0	95	80	120			
Sample ID: R08040220-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080418A				04/18/08 18:01
Chloride	4.94	mg/L	0.50	99	80	120	5.3	10	
Fluoride	1.99	mg/L	0.10	100	80	120	4.4	10	
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120	5.7	10	
Sulfate	13.5	mg/L	1.0	90	80	120	5.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0434	
Sample ID: MB-GrAB-0434	Method Blank				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	-1	pCi/L							U
Gross Beta	-2	pCi/L							U
Sample ID: UNAT-GrAB-0434	Laboratory Control Sample				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	230	pCi/L		96	70	130			
Sample ID: Cs137-GrAB-0434	Laboratory Control Sample				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	90	pCi/L		98	70	130			
Sample ID: C08040851-001CMS	Sample Matrix Spike				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	239	pCi/L		98	70	130			
Sample ID: C08040851-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100683			04/30/08 23:28	
Gross Alpha	256	pCi/L		105	70	130	6.9	14.4	
Sample ID: C08040851-001CMS	Sample Matrix Spike				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	95.6	pCi/L		105	70	130			
Sample ID: C08040851-001CMSD	Sample Matrix Spike Duplicate				Run: SUB-C100683			04/30/08 23:28	
Gross Beta	93.8	pCi/L		103	70	130	1.9	15.7	
Sample ID: C08040278-009DDUP	Sample Duplicate				Run: SUB-C100683			05/01/08 12:00	
Gross Alpha	-1.02	pCi/L					51	197.9	U
Gross Beta	-3.27	pCi/L					27	111	
Method: E901.1								Batch: C_R99993	
Sample ID: LCS-R99993	Laboratory Control Sample				Run: SUB-C99993			04/21/08 16:56	
Americium 241	716	pCi/Filter	20	88	70	130			
Cesium 137	1200	pCi/Filter	20	86	70	130			
Sample ID: MB-R99993	Method Blank				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma		pCi/Filter							U
Sample ID: R08040220-002I	Sample Duplicate				Run: SUB-C99993			04/21/08 16:56	
Gross Gamma	ND	pCi/L	20				0.0	30	U

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_R100731
Sample ID: C08040702-004KMS	Sample Matrix Spike				Run: SUB-C100731				05/05/08 12:47
Radium 226	55	pCi/L		87	70	130			
Sample ID: C08040702-004KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100731				05/05/08 14:17
Radium 226	51	pCi/L		80	70	130	7.5	26.1	
Sample ID: MB-18345	Method Blank				Run: SUB-C100731				05/06/08 05:22
Radium 226	1	pCi/L							U
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100731				05/06/08 06:52
Radium 226	9.7	pCi/L		67	70	130			S
- LCS is low. Since all other QA is acceptable this batch is approved.									
Method: E903.0									Batch: C_RA226-2758
Sample ID: C08040783-001AMS	Sample Matrix Spike				Run: SUB-C100799				05/05/08 15:41
Radium 226	8.2	pCi/L		86	70	130			
Sample ID: C08040783-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C100799				05/05/08 15:41
Radium 226	8.2	pCi/L		86	70	130	0.2	21.7	
Sample ID: MB-RA226-2758	Method Blank				Run: SUB-C100799				05/05/08 17:29
Radium 226	1	pCi/L							
Sample ID: LCS-RA226-2758	Laboratory Control Sample				Run: SUB-C100799				05/05/08 17:29
Radium 226	6.9	pCi/L		93	70	130			
Method: E907.0									Batch: C_18345
Sample ID: C08040702-001KMS	Sample Matrix Spike				Run: SUB-C100376				04/21/08 15:00
Thorium 230	23.8	pCi/L		102	70	130			
Sample ID: C08040702-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C100376				04/21/08 15:00
Thorium 230	20.7	pCi/L		88	70	130	14	30	
Sample ID: LCS-18345	Laboratory Control Sample				Run: SUB-C100376				04/21/08 15:00
Thorium 230	54.4	pCi/L	0.20	111	70	130			
Sample ID: MB-18345	Method Blank				Run: SUB-C100376				04/21/08 15:00
Thorium 230	0.6	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 06/24/08
Work Order: R08040220

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R100603
Sample ID: LCS-R100603	Laboratory Control Sample				Run: SUB-C100603				04/25/08 11:00
Thorium 230	6.60	pCi/L	0.20	94	70	130			
Sample ID: C08040863-001EMS	Sample Matrix Spike				Run: SUB-C100603				04/25/08 11:00
Thorium 230	13.7	pCi/L	0.20	85	70	130			
Sample ID: C08040863-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C100603				04/25/08 11:00
Thorium 230	16.2	pCi/L	0.20	99	70	130	17	30	
Sample ID: MB-R100603	Method Blank				Run: SUB-C100603				04/25/08 11:00
Thorium 230	1E-05	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT, provide as much information as possible. Refer to corresponding notes on reverse side.

Company Name: RESPEC

Project Name, PWS #, Permit #, Etc.: Powertech Dewey Burdock

Report Mail Address: RESPEC

Contact Name, Phone, Fax, E-mail: Cory.foreman@respec.com

Sampler Name if other than Contact: ERIK KRANTZ

Invoice Address: RESPEC

Invoice Contact & Phone #: "

Purchase Order #:

ELI Quote #:

Report Required For: POTW/WWTP ☐ DW ☐ Other _____

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

NELAC ☐ A2LA ☐ Level IV ☐

Other _____

EDD/EDT ☐ Format _____

ANALYSIS REQUESTED: As Per Quote

Notify ELI prior to RUSH sample submittal for additional charges and scheduling

Receipt Temp 4.6 °C on ice

Cooler ID(s)

Custody Seal Y N

Intact Y N

Signature Match Y N

Lab ID

	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)	SEE ATTACHED	Normal Turnaround (TAT)	RUSH Turnaround (TAT)	Comments:	Lab ID
1	Dew Burd CHR01	4/16/08	15:30	W				set 21	80410220-001
2	Dew Burd BLK01	4/16/08	15:45	W				set 25	002
3									
4									
5									
6									
7									
8									
9									
10									

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by:	Date/Time:	Shipped by:	Received by:	Date/Time:
[signature]	04/16/08 0700		[signature]	4-17-08 0700
Relinquished by:	Date/Time:	Shipped by:	Received by:	Date/Time:

Sample Disposal: Return to client: _____ Lab Disposal: _____

LABORATORY USE ONLY

Sample Type: _____ # of fractions _____

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, & links.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

July 30, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08050356 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 5 samples from RESPEC Inc on 5/27/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08050356-001	DewBurd CHR05	05/26/08 13:00	05/27/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08050356-002	DewBurd BVC01	05/26/08 14:00	05/27/08	Aqueous	Same As Above
R08050356-003	DewBurd CHR01	05/26/08 14:45	05/27/08	Aqueous	Same As Above

R08050356-004	DewBurd BVC04	05/26/08 16:30 05/27/08	Aqueous	Same As Above
R08050356-005	DewBurd BLK01	05/26/08 16:50 05/27/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By:

Linda Larson

Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	3500	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	90	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Bicarbonate as HCO3	110	mg/L		5		1	A2320 B	06/02/08 11:02/mb
Calcium	34.3	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Chloride	17	mg/L		1		1	E300.0	05/28/08 20:31/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/28/08 20:31/jmh
Magnesium	10.1	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:34/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	05/28/08 20:31/jmh
Potassium	6	mg/L		1		2	E200.7	06/16/08 18:28/eli-c
Silica	2.9	mg/L		0.5		2	E200.7	06/16/08 18:28/eli-c
Sodium	54	mg/L	D	2		2	E200.7	06/16/08 18:28/eli-c
Sulfate	180	mg/L	D	3		50	E300.0	05/28/08 19:41/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	537	umhos/cm		5.0		1	A2510 B	05/29/08 15:07/tb
pH	7.78	s.u.		0.01		1	A4500-H B	05/29/08 14:11/tb
Sodium Adsorption Ratio (SAR)	2.1	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:03/mb
Solids, Total Dissolved TDS @ 180 C	340	mg/L		5		1	A2540 C	05/30/08 11:51/mb
Solids, Total Suspended TSS @ 105 C	4900	mg/L		5		1	A2540 D	05/28/08 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:38/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	06/16/08 18:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:38/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:38/eli-c
Uranium	0.0028	mg/L		0.0003		1	E200.8	06/22/08 18:38/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 18:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 18:28/eli-c
METALS - SUSPENDED								
Thorium 232	0.035	mg/L		0.001		1	E200.8	06/23/08 10:54/eli-c
Uranium	0.0067	mg/L		0.0003		1	E200.8	06/23/08 10:54/eli-c
METALS - TOTAL								
Aluminum	170	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Arsenic	0.029	mg/L		0.001		5	E200.8	06/14/08 00:07/eli-c
Barium	0.9	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	06/14/08 00:07/eli-c
Chromium	0.19	mg/L		0.05		2	E200.7	06/12/08 18:16/eli-c
Chromium, Hexavalent	0.009	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.10	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Iron	108	mg/L	D	0.2		2	E200.7	06/12/08 18:16/eli-c
Lead	0.110	mg/L		0.001		5	E200.8	06/14/08 00:07/eli-c
Manganese	1.39	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Nickel	0.10	mg/L		0.05		2	E200.7	06/12/08 18:16/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:15/eli-c
Thorium 232	0.046	mg/L		0.005		5	E200.8	06/14/08 00:07/eli-c
Uranium	0.0122	mg/L		0.0003		5	E200.8	06/14/08 00:07/eli-c
Vanadium	0.3	mg/L		0.1		2	E200.7	06/12/08 18:16/eli-c
Zinc	0.47	mg/L		0.01		2	E200.7	06/12/08 18:16/eli-c
Calcium	70.8	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Magnesium	44.8	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Potassium	31.5	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Silica	56.4	mg/L		0.5		2	E200.7	06/12/08 18:16/eli-c
Sodium	58	mg/L	D	1		2	E200.7	06/12/08 18:16/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:46/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:43/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:18/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:16/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.7	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.8	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	-0.3	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	1.4	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	11.2	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.8	pCi/L		1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	1.7	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	3.8	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	0.6	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.2	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	29.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	22.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta MDC	3.4	pCi/L				1	E900.0	06/28/08 01:42/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-001
Client Sample ID: DewBurd CHR05

Report Date: 07/30/08
Collection Date: 05/26/08 13:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma	40.1	pCi/L		20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	15.3	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	12	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	12	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.5	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	1.8	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	5.1	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	0.7	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.3	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:20/eli-b
DATA QUALITY								
A/C Balance (± 5)	-9.14	%				1	A1030 E	07/21/08 00:00/jmh
Anions	6.07	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	5.05	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	365	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	0.940					1	A1030 E	07/21/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-002
Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
Collection Date: 05/26/08 14:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	5700	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	84	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Bicarbonate as HCO3	102	mg/L		5		1	A2320 B	06/02/08 11:05/mb
Calcium	75.5	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Chloride	38	mg/L	D	5		50	E300.0	05/28/08 20:47/jmh
Chloride	24	mg/L		1		5	E300.0	05/29/08 23:44/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	05/28/08 21:03/jmh
Magnesium	17.2	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:35/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	05/28/08 21:03/jmh
Potassium	7	mg/L		1		2	E200.7	06/16/08 19:08/eli-c
Silica	2.9	mg/L		0.5		2	E200.7	06/16/08 19:08/eli-c
Sodium	93	mg/L	D	2		2	E200.7	06/16/08 19:08/eli-c
Sulfate	317	mg/L	D	3		50	E300.0	05/28/08 20:47/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	908	umhos/cm		5.0		1	A2510 B	05/29/08 15:08/tb
pH	7.69	s.u.		0.01		1	A4500-H B	05/29/08 14:12/tb
Sodium Adsorption Ratio (SAR)	2.5	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:04/mb
Solids, Total Dissolved TDS @ 180 C	620	mg/L		5		1	A2540 C	05/30/08 11:53/mb
Solids, Total Suspended TSS @ 105 C	4600	mg/L		5		1	A2540 D	05/28/08 09:21/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:45/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:45/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 19:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:45/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-002
Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
Collection Date: 05/26/08 14:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:45/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:45/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	06/22/08 18:45/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:08/eli-c
METALS - SUSPENDED								
Thorium 232	0.013	mg/L		0.001		1	E200.8	06/23/08 11:21/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8	06/23/08 11:21/eli-c
METALS - TOTAL								
Aluminum	99.3	mg/L		0.1		2	E200.7	06/12/08 18:20/eli-c
Arsenic	0.048	mg/L		0.001		5	E200.8	06/14/08 00:14/eli-c
Barium	1.1	mg/L		0.1		2	E200.7	06/12/08 18:20/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	06/12/08 18:20/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	06/14/08 00:14/eli-c
Chromium	0.19	mg/L		0.05		2	E200.7	06/12/08 18:20/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.11	mg/L		0.01		2	E200.7	06/12/08 18:20/eli-c
Iron	137	mg/L	D	0.2		2	E200.7	06/12/08 18:20/eli-c
Lead	0.088	mg/L		0.001		5	E200.8	06/14/08 00:14/eli-c
Manganese	1.82	mg/L		0.01		2	E200.7	06/12/08 18:20/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:20/eli-c
Nickel	0.15	mg/L		0.05		2	E200.7	06/12/08 18:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:22/eli-c
Thorium 232	0.040	mg/L		0.005		5	E200.8	06/14/08 00:14/eli-c
Uranium	0.0109	mg/L		0.0003		5	E200.8	06/14/08 00:14/eli-c
Vanadium	0.4	mg/L		0.1		2	E200.7	06/12/08 18:20/eli-c
Zinc	0.54	mg/L		0.01		2	E200.7	06/12/08 18:20/eli-c
Calcium	132	mg/L		0.5		2	E200.7	06/12/08 18:20/eli-c
Magnesium	59.8	mg/L		0.5		2	E200.7	06/12/08 18:20/eli-c
Potassium	37.4	mg/L		0.5		2	E200.7	06/12/08 18:20/eli-c
Silica	51.9	mg/L		0.5		2	E200.7	06/12/08 18:20/eli-c
Sodium	99	mg/L	D	1		2	E200.7	06/12/08 18:20/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:52/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-002
Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
Collection Date: 05/26/08 14:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	0.002	mg/L		0.001		1	A3114 B	06/20/08 10:50/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:37/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:26/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-1	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.90	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	2.0	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	15.3	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	42.4	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.0	pCi/L		1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	3.3	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	3.1	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.0	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	3.4	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	18.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	4.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	4.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	12.7	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	3.3	pCi/L				1	E900.0	06/28/08 01:42/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-002
Client Sample ID: DewBurd BVC01

Report Date: 07/30/08
Collection Date: 05/26/08 14:00
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta MDC	5.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	14	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	43	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.3	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.4	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	5.1	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	3.4	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:22/eli-b
DATA QUALITY								
A/C Balance (± 5)	0.0500	%				1	A1030 E	07/21/08 00:00/jmh
Anions	9.42	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	9.43	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	609	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.01					1	A1030 E	07/21/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-003
Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
Collection Date: 05/26/08 14:45
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	2100	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	06/02/08 11:09/mb
Calcium	29.7	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Chloride	2	mg/L		1		1	E300.0	05/28/08 21:36/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	05/28/08 21:36/jmh
Magnesium	9.0	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:38/jmh
Nitrogen, Nitrate as N	0.4	mg/L		0.1		1	E300.0	05/28/08 21:36/jmh
Potassium	6	mg/L		1		2	E200.7	06/16/08 19:12/eli-c
Silica	2.6	mg/L		0.5		2	E200.7	06/16/08 19:12/eli-c
Sodium	28	mg/L	D	2		2	E200.7	06/16/08 19:12/eli-c
Sulfate	86	mg/L		1		1	E300.0	05/28/08 21:36/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	367	umhos/cm		5.0		1	A2510 B	05/29/08 15:09/tb
pH	7.81	s.u.		0.01		1	A4500-H B	05/29/08 14:13/tb
Sodium Adsorption Ratio (SAR)	1.2	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	4840	mg/L		5		1	D3977	05/29/08 16:06/mb
Solids, Total Dissolved TDS @ 180 C	400	mg/L		5		1	A2540 C	05/30/08 11:53/mb
Solids, Total Suspended TSS @ 105 C	4400	mg/L		5		1	A2540 D	05/28/08 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:52/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	06/16/08 19:12/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:52/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-003
Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
Collection Date: 05/26/08 14:45
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:52/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	06/22/08 18:52/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:12/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:12/eli-c
METALS - SUSPENDED								
Thorium 232	0.017	mg/L		0.001		1	E200.8	06/23/08 11:27/eli-c
Uranium	0.0038	mg/L		0.0003		1	E200.8	06/23/08 11:27/eli-c
METALS - TOTAL								
Aluminum	94.7	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Arsenic	0.024	mg/L	D	0.003		5	E200.8	06/14/08 00:21/eli-c
Barium	0.8	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Cadmium	ND	mg/L		0.005		5	E200.8	06/14/08 00:21/eli-c
Chromium	0.19	mg/L		0.05		2	E200.7	06/12/08 18:24/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.10	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Iron	88.3	mg/L		0.03		2	E200.7	06/12/08 18:24/eli-c
Lead	0.118	mg/L		0.001		5	E200.8	06/14/08 00:21/eli-c
Manganese	1.19	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Nickel	0.08	mg/L		0.05		2	E200.7	06/12/08 18:24/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:29/eli-c
Thorium 232	0.046	mg/L		0.005		5	E200.8	06/14/08 00:21/eli-c
Uranium	0.0119	mg/L		0.0003		5	E200.8	06/14/08 00:21/eli-c
Vanadium	0.3	mg/L		0.1		2	E200.7	06/12/08 18:24/eli-c
Zinc	0.46	mg/L		0.01		2	E200.7	06/12/08 18:24/eli-c
Calcium	62.0	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Magnesium	37.3	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Potassium	27.4	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Silica	63.5	mg/L		0.5		2	E200.7	06/12/08 18:24/eli-c
Sodium	30	mg/L	D	1		2	E200.7	06/12/08 18:24/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:54/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:52/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-003
Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
Collection Date: 05/26/08 14:45
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:39/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:28/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.5	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	1.3	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	0.06	pCi/L	U			1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c

- For Ra226, the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on this sample due to significant matrix interferences.

RADIONUCLIDES - SUSPENDED								
Lead 210	4.4	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	42.2	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	4.1	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	3.2	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	4.0	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.2	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.0	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.2	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	29.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	3.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	2.3	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	22.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	06/28/08 01:42/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-003
Client Sample ID: DewBurd CHR01

Report Date: 07/30/08
Collection Date: 05/26/08 14:45
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta MDC	3.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	5	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	43	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	4.6	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.5	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	4.1	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.8	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.1	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.2	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:24/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.47	%				1	A1030 E	07/21/08 00:00/jmh
Anions	3.51	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	3.61	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	219	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.84					1	A1030 E	07/21/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-004
Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
Collection Date: 05/26/08 16:30
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	1200	CFU/100ml	D	100		100	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	84	mg/L		5		1	A2320 B	06/02/08 11:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:12/mb
Bicarbonate as HCO3	102	mg/L		5		1	A2320 B	06/02/08 11:12/mb
Calcium	51.5	mg/L		0.5		2	E200.7	06/16/08 19:16/eli-c
Chloride	9	mg/L		1		1	E300.0	05/28/08 22:09/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	05/28/08 22:09/jmh
Magnesium	13.2	mg/L		0.5		2	E200.7	06/16/08 19:16/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:42/jmh
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	05/28/08 22:09/jmh
Potassium	6	mg/L		1		2	E200.7	06/16/08 19:16/eli-c
Silica	2.8	mg/L		0.5		2	E200.7	06/16/08 19:16/eli-c
Sodium	89	mg/L	D	2		2	E200.7	06/16/08 19:16/eli-c
Sulfate	286	mg/L	D	3		50	E300.0	05/28/08 21:53/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	784	umhos/cm		5.0		1	A2510 B	05/29/08 15:11/tb
pH	7.71	s.u.		0.01		1	A4500-H B	05/29/08 14:14/tb
Sodium Adsorption Ratio (SAR)	2.8	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	2700	mg/L		5		1	D3977	05/29/08 16:07/mb
Solids, Total Dissolved TDS @ 180 C	520	mg/L		5		1	A2540 C	05/30/08 11:54/mb
Solids, Total Suspended TSS @ 105 C	2200	mg/L		5		1	A2540 D	05/28/08 09:22/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 18:59/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 18:59/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:16/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 18:59/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	06/16/08 19:16/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 18:59/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:16/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 18:59/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 19:16/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-004
Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
Collection Date: 05/26/08 16:30
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 18:59/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 18:59/eli-c
Uranium	0.0017	mg/L		0.0003		1	E200.8	06/22/08 18:59/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:16/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:16/eli-c
METALS - SUSPENDED								
Thorium 232	0.009	mg/L		0.001		1	E200.8	06/23/08 11:34/eli-c
Uranium	0.0021	mg/L		0.0003		1	E200.8	06/23/08 11:34/eli-c
METALS - TOTAL								
Aluminum	61.3	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Arsenic	0.023	mg/L	D	0.003		5	E200.8	06/14/08 00:28/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		2	E200.7	06/12/08 18:28/eli-c
Chromium	0.08	mg/L		0.05		2	E200.7	06/12/08 18:28/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	0.07	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Iron	63.1	mg/L		0.03		2	E200.7	06/12/08 18:28/eli-c
Lead	0.047	mg/L		0.001		5	E200.8	06/14/08 00:28/eli-c
Manganese	1.34	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Nickel	0.08	mg/L		0.05		2	E200.7	06/12/08 18:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:36/eli-c
Thorium 232	0.021	mg/L		0.005		5	E200.8	06/14/08 00:28/eli-c
Uranium	0.0069	mg/L		0.0003		5	E200.8	06/14/08 00:28/eli-c
Vanadium	0.2	mg/L		0.1		2	E200.7	06/12/08 18:28/eli-c
Zinc	0.27	mg/L		0.01		2	E200.7	06/12/08 18:28/eli-c
Calcium	81.3	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Magnesium	32.8	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Potassium	20.4	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Silica	77.6	mg/L		0.5		2	E200.7	06/12/08 18:28/eli-c
Sodium	96	mg/L	D	1		2	E200.7	06/12/08 18:28/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 15:57/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 10:54/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-004
Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
Collection Date: 05/26/08 16:30
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:41/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.9	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.8	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.3	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	06/16/08 13:30/eli-c

- For Ra226, the sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on this sample due to significant matrix interferences.

RADIONUCLIDES - SUSPENDED								
Lead 210	-30	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	41.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	70.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	3.7	pCi/L		1.0		1	RMO-3008	07/01/08 14:30/eli-c
Polonium 210 precision (±)	2.9	pCi/L				1	RMO-3008	07/01/08 14:30/eli-c
Radium 226	2.2	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	2.2	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	2.1	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	1.1	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	12.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	2.7	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	3.1	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	12.9	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	2.5	pCi/L				1	E900.0	06/28/08 01:42/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-004
Client Sample ID: DewBurd BVC04

Report Date: 07/30/08
Collection Date: 05/26/08 16:30
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta MDC	3.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-33	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	42	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	3.8	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	3.1	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	2.2	pCi/L	U			1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	1.6	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	2.1	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	1.2	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:31/eli-b
DATA QUALITY								
A/C Balance (± 5)	-1.82	%				1	A1030 E	07/21/08 00:00/jmh
Anions	7.96	meq/L				1	A1030 E	07/21/08 00:00/jmh
Cations	7.68	meq/L				1	A1030 E	07/21/08 00:00/jmh
Solids, Total Dissolved Calculated	516	mg/L				1	A1030 E	07/21/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	07/21/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-005
Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
Collection Date: 05/26/08 16:50
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	05/27/08 12:40/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/02/08 11:13/mb
Calcium	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Chloride	ND	mg/L		1		1	E300.0	05/28/08 22:58/jmh
Fluoride	0.1	mg/L		0.1		1	E300.0	05/28/08 22:58/jmh
Magnesium	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	05/28/08 13:43/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	05/28/08 22:58/jmh
Potassium	ND	mg/L		1		2	E200.7	06/16/08 19:20/eli-c
Silica	ND	mg/L		0.5		2	E200.7	06/16/08 19:20/eli-c
Sodium	ND	mg/L	D	2		2	E200.7	06/16/08 19:20/eli-c
Sulfate	ND	mg/L		1		1	E300.0	05/28/08 22:58/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5.1	umhos/cm		5.0		1	A2510 B	05/29/08 15:13/tb
pH	4.79	s.u.		0.01		1	A4500-H B	05/29/08 14:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	07/21/08 11:31/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	05/28/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		5		1	A2540 C	05/30/08 11:55/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	05/28/08 09:23/mb
- SAR calculations may not be appropriate for near blank results.								
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/22/08 19:05/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
Copper	ND	mg/L		0.01		1	E200.8	06/22/08 19:05/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/16/08 19:20/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	06/22/08 19:05/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-005
Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
Collection Date: 05/26/08 16:50
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/22/08 19:05/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/22/08 19:05/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/22/08 19:05/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/16/08 19:20/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/16/08 19:20/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	06/23/08 11:41/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/23/08 11:41/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	06/12/08 18:32/eli-c
Arsenic	ND	mg/L	D	0.003		1	E200.8	06/14/08 00:34/eli-c
Barium	ND	mg/L		0.1		2	E200.7	06/12/08 18:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	06/12/08 18:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	06/14/08 00:34/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	06/12/08 18:32/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	05/27/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/21/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	06/12/08 18:32/eli-c
Iron	ND	mg/L		0.03		2	E200.7	06/12/08 18:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	06/14/08 00:34/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	06/12/08 18:32/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	06/12/08 18:32/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	06/12/08 18:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	06/17/08 21:42/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	06/14/08 00:34/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	06/14/08 00:34/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	06/12/08 18:32/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	06/12/08 18:32/eli-c
Calcium	ND	mg/L		0.5		2	E200.7	06/12/08 18:32/eli-c
Magnesium	ND	mg/L		0.5		2	E200.7	06/12/08 18:32/eli-c
Potassium	ND	mg/L		0.5		2	E200.7	06/12/08 18:32/eli-c
Silica	ND	mg/L		0.5		2	E200.7	06/12/08 18:32/eli-c
Sodium	ND	mg/L	D	1		2	E200.7	06/12/08 18:32/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	06/20/08 16:03/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-005
Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
Collection Date: 05/26/08 16:50
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:00/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	06/20/08 16:43/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	06/20/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	06/20/08 16:54/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-0.4	pCi/L	U			1	E909.0M	07/08/08 11:20/eli-c
Lead 210 MDC	9.6	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Lead 210 precision (±)	5.7	pCi/L				1	E909.0M	07/08/08 11:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	06/17/08 12:00/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	06/17/08 12:00/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	06/19/08 00:49/eli-c
Radium 226 precision (±)	0.09	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	06/19/08 00:49/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	06/16/08 13:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	06/16/08 13:30/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-4	pCi/L	U			1	E909.0M	06/11/08 06:30/eli-c
Lead 210 precision (±)	10.5	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Lead 210 MDC	17.7	pCi/L				1	E909.0M	06/11/08 06:30/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	06/25/08 17:27/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	06/25/08 17:27/eli-c
Radium 226	-0.5	pCi/L	U			1	E903.0	06/17/08 09:15/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	06/17/08 09:15/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	06/13/08 13:30/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	06/13/08 13:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	-0.2	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Alpha precision (±)	0.6	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Alpha MDC	1.0	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Beta	-1	pCi/L	U			1	E900.0	06/28/08 01:42/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	06/28/08 01:42/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08050356-005
Client Sample ID: DewBurd BLK01

Report Date: 07/30/08
Collection Date: 05/26/08 16:50
Date Received: 05/27/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta MDC	2.8	pCi/L				1	E900.0	06/28/08 01:42/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/04/08 12:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/04/08 12:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-4	pCi/L	U			1	E909.0M	07/18/08 17:46/eli-c
Lead 210 precision (±)	12	pCi/L				1	E909.0M	07/18/08 17:46/eli-c
Polonium 210	ND	pCi/L		1.0		1	RMO-3008	07/18/08 17:46/eli-c
Polonium 210 precision (±)	0.76	pCi/L				1	RMO-3008	07/18/08 17:46/eli-c
Radium 226	-0.6	pCi/L	U			1	E903.0	07/18/08 17:46/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/18/08 17:46/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/18/08 17:46/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/18/08 17:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/17/08 11:34/eli-b

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080602A-ALK-SEL-W	
Sample ID: LCS1_080602A	Laboratory Control Sample				Run: PH_COND1-R_080602A			06/02/08 10:56	
Alkalinity, Total as CaCO3	960	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080602A	Method Blank				Run: PH_COND1-R_080602A			06/02/08 12:28	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08050406-005AMS	Sample Matrix Spike				Run: PH_COND1-R_080602A			06/02/08 11:35	
Alkalinity, Total as CaCO3	242	mg/L	5.0	98	80	120			
Sample ID: R08050406-005AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080602A			06/02/08 11:38	
Alkalinity, Total as CaCO3	244	mg/L	5.0	100	80	120	0.8	10	
Method: A2510 B								Batch: 080529_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080529	Laboratory Control Sample				Run: PH_COND2-R_080529C			05/29/08 15:04	
Conductivity @ 25 C	1390	umhos/cm	5.0	98	90	110			
Sample ID: LCS1-1_080529	Laboratory Control Sample				Run: PH_COND2-R_080529C			05/29/08 15:02	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080529	Laboratory Control Sample				Run: PH_COND2-R_080529C			05/29/08 15:01	
Conductivity @ 25 C	4890	umhos/cm	5.0	98	90	110			
Sample ID: R08050406-005ADUP	Sample Duplicate				Run: PH_COND2-R_080529C			05/29/08 15:22	
Conductivity @ 25 C	1040	umhos/cm	5.0				1.0	10	
Method: A2540 C								Batch: 080530A-SLDS-TDS-W	
Sample ID: LCS1_080530A	Laboratory Control Sample				Run: BAL-4-R_080530A			05/30/08 11:44	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080530A	Method Blank				Run: BAL-4-R_080530A			05/30/08 11:45	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08050356-001CMS	Sample Matrix Spike				Run: BAL-4-R_080530A			05/30/08 11:52	
Solids, Total Dissolved TDS @ 180 C	550	mg/L	5.0	106	80	120			
Sample ID: R08050356-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080530A			05/30/08 11:52	
Solids, Total Dissolved TDS @ 180 C	560	mg/L	5.0	108	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080528A-SLDS-TSS-W	
Sample ID: LCS1_080528A	Laboratory Control Sample				Run: BAL-4-R_080528A			05/28/08 09:11	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Sample ID: MBLK1_080528A	Method Blank				Run: BAL-4-R_080528A			05/28/08 09:12	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B								Analytical Run: SUB-C102993	
Sample ID: 288-92-2	Initial Calibration Verification Standard							06/20/08 09:57	
Selenium-IV	0.053	mg/L	0.0010	105	90	110			
Method: A3114 B								Batch: C_SE3114-080620A	
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C102993			06/20/08 10:11	
Selenium-IV	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike				Run: SUB-C102993			06/20/08 10:45	
Selenium-IV	0.069	mg/L	0.0010	137	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate				Run: SUB-C102993			06/20/08 10:48	
Selenium-IV	0.075	mg/L	0.0010	151	85	115	9.3	10	S
Sample ID: C08060097-001HMS	Sample Matrix Spike				Run: SUB-C102993			06/20/08 11:18	
Selenium-IV	0.046	mg/L	0.0010	93	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C102993			06/20/08 11:20	
Selenium-IV	0.048	mg/L	0.0010	96	85	115	3.3	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080620C	
Sample ID: MBLK	Method Blank				Run: SUB-C103018			06/20/08 15:10	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-92-2	Laboratory Control Sample				Run: SUB-C103018			06/20/08 15:14	
Selenium	0.049	mg/L	0.0010	99	90	110			
Sample ID: R08050356-001A	Sample Matrix Spike				Run: SUB-C103018			06/20/08 15:48	
Selenium	0.073	mg/L	0.0010	146	85	115			S
Sample ID: R08050356-001A	Sample Matrix Spike Duplicate				Run: SUB-C103018			06/20/08 15:50	
Selenium	0.073	mg/L	0.0010	145	85	115	0.0	10	S
Sample ID: C08060097-001HMS	Sample Matrix Spike				Run: SUB-C103018			06/20/08 16:20	
Selenium	0.044	mg/L	0.0010	87	85	115			
Sample ID: C08060097-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C103018			06/20/08 16:22	
Selenium	0.044	mg/L	0.0010	89	85	115	1.8	10	
Method: A3500-Cr B								Batch: 080527-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	119	80	120			
Sample ID: R08050355-001E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	2.3	mg/L	0.050	115	80	120			
Sample ID: R08050356-001E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	113	80	120			
Sample ID: R08050356-002E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	118	80	120			
Sample ID: R08050356-003E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	120	80	120			
Sample ID: R08050356-004E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	118	80	120			
Sample ID: R08050356-005E	Sample Matrix Spike				Run: SPEC1_080527A			05/27/08 00:00	
Chromium, Hexavalent	0.24	mg/L	0.0050	119	80	120			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B								Batch: 080529_1_PH-W	
Sample ID: LCS_pH-1_080529	Laboratory Control Sample				Run: PH_COND2-R_080529A			05/29/08 14:07	
pH	6.92	s.u.	0.010	101	98.55	101.45			
Sample ID: R08050406-003ADUP	Sample Duplicate				Run: PH_COND2-R_080529A			05/29/08 14:24	
pH	6.99	s.u.	0.010				0.6	1.25	
Method: A4500-NH3 G								Batch: A2008-05-28_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080528A			05/28/08 10:35	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080528A			05/28/08 10:36	
Nitrogen, Ammonia as N	0.27	mg/L	0.10	107	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080528A			05/28/08 10:38	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	100	90	110			
Sample ID: R08050356-003FMS	Sample Matrix Spike				Run: TECHAA2-R_080528A			05/28/08 13:40	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	93	80	120			
Sample ID: R08050356-003FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080528A			05/28/08 13:41	
Nitrogen, Ammonia as N	0.26	mg/L	0.10	92	80	120	1.2	10	
Method: A9222 D								Batch: 080527-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080527A			05/27/08 10:40	
Bacteria, Fecal Coliform	ND	CFU/100ml							
Sample ID: R08050353-001A	Sample Duplicate				Run: MEMFILT_080527A			05/27/08 10:40	
Bacteria, Fecal Coliform	38	CFU/100ml	2.0				5.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18755
Sample ID: MB-18755	Method Blank				Run: SUB-C102628				06/12/08 17:28
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Cadmium	ND	mg/L	0.001						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.009	mg/L	0.005						
Zinc	0.003	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18755	Laboratory Control Sample				Run: SUB-C102628				06/12/08 17:32
Aluminum	2.57	mg/L	0.10	103	85	115			
Barium	0.537	mg/L	0.10	107	85	115			
Boron	0.555	mg/L	0.10	104	85	115			
Cadmium	0.261	mg/L	0.010	104	85	115			
Chromium	0.532	mg/L	0.050	106	85	115			
Copper	0.529	mg/L	0.010	106	85	115			
Iron	2.75	mg/L	0.030	110	85	115			
Manganese	2.66	mg/L	0.010	107	85	115			
Molybdenum	0.525	mg/L	0.10	105	85	115			
Nickel	0.513	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	106	85	115			
Zinc	0.535	mg/L	0.010	106	85	115			
Calcium	27.7	mg/L	1.0	111	85	115			
Magnesium	27.7	mg/L	1.0	111	85	115			
Potassium	26.3	mg/L	1.0	105	85	115			
Silica	5.95	mg/L	0.10	119	85	115			S
Sodium	26.7	mg/L	1.0	107	85	115			
- Response for Silica is above standard QA limit. Since the other batch QA is within acceptance range, this batch is approved.									
Sample ID: R08050356-005B	Sample Matrix Spike				Run: SUB-C102628				06/12/08 18:36
Aluminum	2.53	mg/L	0.10	101	70	130			
Barium	0.503	mg/L	0.10	101	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18755
Sample ID: R08050356-005B	Sample Matrix Spike				Run: SUB-C102628				06/12/08 18:36
Boron	0.480	mg/L	0.10	96	70	130			
Cadmium	0.253	mg/L	0.010	101	70	130			
Chromium	0.510	mg/L	0.050	102	70	130			
Copper	0.497	mg/L	0.010	99	70	130			
Iron	2.66	mg/L	0.030	106	70	130			
Manganese	2.55	mg/L	0.010	102	70	130			
Molybdenum	0.494	mg/L	0.10	99	70	130			
Nickel	0.496	mg/L	0.050	99	70	130			
Vanadium	0.622	mg/L	0.10	114	70	130			
Zinc	0.501	mg/L	0.010	100	70	130			
Calcium	26.2	mg/L	1.0	105	70	130			
Magnesium	26.9	mg/L	1.0	107	70	130			
Potassium	26.1	mg/L	1.0	104	70	130			
Silica	6.03	mg/L	0.10	112	70	130			
Sodium	24.9	mg/L	1.1	100	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate				Run: SUB-C102628				06/12/08 18:41
Aluminum	2.52	mg/L	0.10	101	70	130	0.6	20	
Barium	0.496	mg/L	0.10	99	70	130	1.4	20	
Boron	0.474	mg/L	0.10	95	70	130	1.4	20	
Cadmium	0.245	mg/L	0.010	98	70	130	3.0	20	
Chromium	0.503	mg/L	0.050	101	70	130	1.4	20	
Copper	0.499	mg/L	0.010	100	70	130	0.6	20	
Iron	2.63	mg/L	0.030	104	70	130	1.4	20	
Manganese	2.51	mg/L	0.010	100	70	130	1.6	20	
Molybdenum	0.497	mg/L	0.10	99	70	130	0.5	20	
Nickel	0.506	mg/L	0.050	101	70	130	1.9	20	
Vanadium	0.631	mg/L	0.10	115	70	130	1.4	20	
Zinc	0.505	mg/L	0.010	100	70	130	0.8	20	
Calcium	26.5	mg/L	1.0	106	70	130	1.2	20	
Magnesium	26.6	mg/L	1.0	106	70	130	0.9	20	
Potassium	25.6	mg/L	1.0	103	70	130	1.8	20	
Silica	5.97	mg/L	0.10	110	70	130	1.0	20	
Sodium	24.8	mg/L	1.1	99	70	130	0.6	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R102753
Sample ID: MB-080616A	Method Blank				Run: SUB-C102753				06/16/08 15:33
Silica	ND	mg/L	0.02						
Aluminum	0.01	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.02	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.005	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080616A	Laboratory Fortified Blank				Run: SUB-C102753				06/16/08 15:37
Silica	0.37	mg/L	0.10	92	85	125			
Aluminum	0.99	mg/L	0.10	98	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.00	mg/L	0.10	98	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	52	mg/L	0.50	104	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	0.98	mg/L	0.10	98	85	125			
Nickel	1.0	mg/L	0.050	100	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.0	mg/L	0.10	104	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: C08060096-002CMS2	Sample Matrix Spike				Run: SUB-C102753				06/16/08 18:08
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.08	mg/L	0.10	104	70	130			
Boron	2.10	mg/L	0.10	102	70	130			
Chromium	2.09	mg/L	0.050	104	70	130			
Iron	2.14	mg/L	0.030	106	70	130			
Manganese	2.13	mg/L	0.010	103	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R102753	
Sample ID: C08060096-002CMS2	Sample Matrix Spike				Run: SUB-C102753			06/16/08 18:08	
Nickel	2.06	mg/L	0.050	103	70	130			
Vanadium	2.12	mg/L	0.10	104	70	130			
Zinc	2.10	mg/L	0.010	104	70	130			
Calcium	141	mg/L	1.0	102	70	130			
Magnesium	117	mg/L	1.0	104	70	130			
Potassium	98.4	mg/L	1.0	92	70	130			
Silica	4.58	mg/L	0.10		70	130			A
Sodium	372	mg/L	1.5	95	70	130			
Sample ID: C08060096-002CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C102753			06/16/08 18:12	
Aluminum	1.98	mg/L	0.10	99	70	130	1.6	20	
Barium	2.12	mg/L	0.10	106	70	130	2.0	20	
Boron	2.16	mg/L	0.10	105	70	130	2.9	20	
Chromium	2.13	mg/L	0.050	106	70	130	1.9	20	
Iron	2.16	mg/L	0.030	108	70	130	1.2	20	
Manganese	2.17	mg/L	0.010	105	70	130	1.9	20	
Molybdenum	2.06	mg/L	0.10	103	70	130	3.2	20	
Nickel	2.12	mg/L	0.050	106	70	130	2.4	20	
Vanadium	2.21	mg/L	0.10	108	70	130	4.1	20	
Zinc	2.15	mg/L	0.010	106	70	130	2.4	20	
Calcium	145	mg/L	1.0	106	70	130	2.7	20	
Magnesium	121	mg/L	1.0	107	70	130	2.7	20	
Potassium	99.1	mg/L	1.0	92	70	130	0.7	20	
Silica	4.65	mg/L	0.10		70	130	1.3	20	A
Sodium	369	mg/L	1.5	92	70	130	0.7	20	
Sample ID: R08050419-003C	Sample Matrix Spike				Run: SUB-C102753			06/16/08 19:37	
Aluminum	1.95	mg/L	0.10	98	70	130			
Barium	2.05	mg/L	0.10	103	70	130			
Boron	2.11	mg/L	0.10	103	70	130			
Chromium	2.11	mg/L	0.050	105	70	130			
Iron	2.22	mg/L	0.030	110	70	130			
Manganese	2.15	mg/L	0.010	103	70	130			
Molybdenum	2.02	mg/L	0.10	101	70	130			
Nickel	2.10	mg/L	0.050	105	70	130			
Vanadium	2.31	mg/L	0.10	110	70	130			
Zinc	2.14	mg/L	0.010	107	70	130			
Calcium	165	mg/L	1.0	106	70	130			
Magnesium	136	mg/L	1.0	109	70	130			
Potassium	103	mg/L	1.0	89	70	130			
Silica	4.18	mg/L	0.10		70	130			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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R102753	
Sample ID: R08050419-003C	Sample Matrix Spike				Run: SUB-C102753			06/16/08 19:37	
Sodium	335	mg/L	1.5	95	70	130			
Sample ID: R08050419-003C	Sample Matrix Spike Duplicate				Run: SUB-C102753			06/16/08 19:41	
Aluminum	1.93	mg/L	0.10	97	70	130	1.1	20	
Barium	2.03	mg/L	0.10	101	70	130	1.4	20	
Boron	2.10	mg/L	0.10	102	70	130	0.8	20	
Chromium	2.07	mg/L	0.050	103	70	130	1.9	20	
Iron	2.17	mg/L	0.030	107	70	130	2.2	20	
Manganese	2.13	mg/L	0.010	102	70	130	1.0	20	
Molybdenum	2.00	mg/L	0.10	100	70	130	1.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	2.6	20	
Vanadium	2.23	mg/L	0.10	106	70	130	3.8	20	
Zinc	2.09	mg/L	0.010	105	70	130	2.1	20	
Calcium	165	mg/L	1.0	106	70	130	0.0	20	
Magnesium	133	mg/L	1.0	107	70	130	2.1	20	
Potassium	104	mg/L	1.0	91	70	130	1.8	20	
Silica	4.12	mg/L	0.10		70	130	1.2	20	A
Sodium	336	mg/L	1.5	95	70	130	0.2	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18755
Sample ID: MB-18755	Method Blank				Run: SUB-C102666				06/13/08 23:07
Arsenic	0.002	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	6E-06	mg/L							
Silver	ND	mg/L	4E-05						
Thorium 232	ND	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18755	Laboratory Control Sample				Run: SUB-C102666				06/13/08 23:13
Arsenic	0.504	mg/L	0.0010	100	85	115			
Cadmium	0.246	mg/L	0.010	98	85	115			
Lead	0.500	mg/L	0.050	100	85	115			
Thorium 232	0.508	mg/L	0.0010	102	85	115			
Uranium	0.513	mg/L	0.00032	103	85	115			
Sample ID: R08050356-005B	Sample Matrix Spike				Run: SUB-C102666				06/14/08 00:41
Arsenic	0.497	mg/L	0.0010	99	70	130			
Cadmium	0.246	mg/L	0.010	98	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Silver	0.0391	mg/L	0.010	78	70	130			
Thorium 232	0.506	mg/L	0.0010	101	70	130			
Uranium	0.513	mg/L	0.00032	103	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate				Run: SUB-C102666				06/14/08 00:48
Arsenic	0.551	mg/L	0.0010	110	70	130	10	20	
Cadmium	0.264	mg/L	0.010	106	70	130	7.4	20	
Lead	0.551	mg/L	0.050	110	70	130	9.9	20	
Silver	0.0440	mg/L	0.010	88	70	130	12	20	
Thorium 232	0.573	mg/L	0.0010	115	70	130	12	20	
Uranium	0.576	mg/L	0.00032	115	70	130	12	20	
Sample ID: R08050356-005B	Sample Matrix Spike				Run: SUB-C102755				06/16/08 14:18
Arsenic	0.506	mg/L	0.0010	101	70	130			
Cadmium	0.251	mg/L	0.010	100	70	130			
Lead	0.507	mg/L	0.050	101	70	130			
Silver	0.0448	mg/L	0.010	90	70	130			
Thorium 232	0.510	mg/L	0.0010	102	70	130			
Uranium	0.514	mg/L	0.00032	103	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate				Run: SUB-C102755				06/16/08 14:25
Arsenic	0.495	mg/L	0.0010	99	70	130	2.2	20	
Cadmium	0.244	mg/L	0.010	98	70	130	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_18755	
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate				Run: SUB-C102755			06/16/08 14:25	
Lead	0.498	mg/L	0.050	100	70	130	1.9	20	
Silver	0.0440	mg/L	0.010	88	70	130	1.7	20	
Thorium 232	0.506	mg/L	0.0010	101	70	130	0.8	20	
Uranium	0.509	mg/L	0.00032	102	70	130	1.0	20	
Sample ID: MB-18755	Method Blank				Run: SUB-C102823			06/17/08 20:15	
Arsenic	0.0006	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	0.00010	mg/L	4E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	8E-05	mg/L	3E-05						
Sample ID: LCS3-18755	Laboratory Control Sample				Run: SUB-C102823			06/17/08 20:21	
Arsenic	0.537	mg/L	0.0010	107	85	115			
Cadmium	0.268	mg/L	0.010	107	85	115			
Lead	0.563	mg/L	0.050	113	85	115			
Silver	0.0501	mg/L	0.010	100	85	115			
Thorium 232	0.603	mg/L	0.0010	121	85	115			S
Uranium	0.602	mg/L	0.00030	120	85	115			
Sample ID: R08050356-005B	Sample Matrix Spike				Run: SUB-C102823			06/17/08 21:49	
Silver	0.00426	mg/L	0.010	106	70	130			
Sample ID: R08050356-005B	Sample Matrix Spike Duplicate				Run: SUB-C102823			06/17/08 22:18	
Silver	0.00428	mg/L	0.010	107	70	130	0.0	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18760
Sample ID: MB-18760	Method Blank				Run: SUB-C103038				06/23/08 10:40
Thorium 232	8E-05	mg/L							
Uranium	0.0003	mg/L	2E-05						
Sample ID: LCS1-18760	Laboratory Control Sample				Run: SUB-C103038				06/23/08 10:47
Uranium	0.0487	mg/L	0.00030	92	80	120			
The LCS was not spiked for thorium.									
Sample ID: C08060097-005KMS4	Post Digestion Spike				Run: SUB-C103038				06/23/08 11:47
Thorium 232	0.0123	mg/L	0.0010	98	70	130			
Uranium	0.0124	mg/L	0.00030	99	70	130			
Sample ID: C08060097-005KMSD4	Post Digestion Spike Duplicate				Run: SUB-C103038				06/23/08 11:54
Thorium 232	0.0124	mg/L	0.0010	99	70	130	0.2	20	
Uranium	0.0124	mg/L	0.00030	99	70	130	0.0	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R103038	
Sample ID: LRB	Method Blank				Run: SUB-C103038			06/22/08 13:02	
Arsenic	ND	mg/L	6E-05						
Cadmium	2E-05	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	8E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103038			06/22/08 13:09	
Silver	0.0196	mg/L	0.0010	98	85	115			
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103038			06/22/08 14:35	
Arsenic	0.0517	mg/L	0.0010	103	85	115			
Cadmium	0.0524	mg/L	0.0010	105	85	115			
Copper	0.0516	mg/L	0.0010	103	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00507	mg/L	0.0010	101	85	115			
Thorium 232	0.0520	mg/L	0.0010	104	85	115			
Uranium	0.0525	mg/L	0.00030	105	85	115			
Sample ID: R08050419-003C	Post Digestion Spike				Run: SUB-C103038			06/22/08 19:53	
Arsenic	0.0536	mg/L	0.0010	106	70	130			
Cadmium	0.0507	mg/L	0.010	101	70	130			
Copper	0.0505	mg/L	0.010	100	70	130			
Lead	0.0543	mg/L	0.050	109	70	130			
Mercury	0.00517	mg/L	0.0010	103	70	130			
Silver	0.0119	mg/L	0.010	60	70	130			S
Thorium 232	0.0561	mg/L	0.0010	112	70	130			
Uranium	0.0558	mg/L	0.00030	111	70	130			
Sample ID: R08050419-003C	Post Digestion Spike Duplicate				Run: SUB-C103038			06/22/08 20:00	
Arsenic	0.0548	mg/L	0.0010	108	70	130	2.2	20	
Cadmium	0.0519	mg/L	0.010	104	70	130	2.3	20	
Copper	0.0510	mg/L	0.010	101	70	130	0.8	20	
Lead	0.0549	mg/L	0.050	110	70	130	1.2	20	
Mercury	0.00531	mg/L	0.0010	106	70	130	2.7	20	
Silver	0.0124	mg/L	0.010	62	70	130	4.3	20	S
Thorium 232	0.0571	mg/L	0.0010	114	70	130	1.8	20	
Uranium	0.0567	mg/L	0.00030	113	70	130	1.7	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R103038	
Sample ID: C08060423-001BMS	Sample Matrix Spike				Run: SUB-C103038			06/23/08 02:04	
Arsenic	0.0502	mg/L	0.0010	91	70	130			
Cadmium	0.0433	mg/L	0.0010	87	70	130			
Copper	0.0491	mg/L	0.0010	95	70	130			
Lead	0.0532	mg/L	0.0010	105	70	130			
Mercury	0.00506	mg/L	0.0010	101	70	130			
Silver	0.0155	mg/L	0.0010	77	70	130			
Thorium 232	0.0551	mg/L	0.0010	109	70	130			
Uranium	0.0552	mg/L	0.00030	110	70	130			
Sample ID: C08060423-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C103038			06/23/08 02:11	
Arsenic	0.0527	mg/L	0.0010	96	70	130	4.9	20	
Cadmium	0.0451	mg/L	0.0010	90	70	130	4.1	20	
Copper	0.0526	mg/L	0.0010	102	70	130	6.9	20	
Lead	0.0559	mg/L	0.0010	110	70	130	4.9	20	
Mercury	0.00530	mg/L	0.0010	106	70	130	4.7	20	
Silver	0.0165	mg/L	0.0010	83	70	130	6.4	20	
Thorium 232	0.0588	mg/L	0.0010	117	70	130	6.5	20	
Uranium	0.0583	mg/L	0.00030	116	70	130	5.5	20	
Method: E245.1								Batch: C_B_33012	
Sample ID: B08060960-003CMS	Sample Matrix Spike				Run: SUB-C102832			06/17/08 09:36	
Mercury	0.0019	mg/L	0.0010	90	70	130			
Sample ID: B08060960-003CMSD	Sample Matrix Spike Duplicate				Run: SUB-C102832			06/17/08 09:39	
Mercury	0.0020	mg/L	0.0010	95	70	130	4.7	30	
Sample ID: MB-33012	Method Blank				Run: SUB-C102832			06/17/08 09:25	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33012	Laboratory Fortified Blank				Run: SUB-C102832			06/17/08 09:28	
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08060966-003BMS	Sample Matrix Spike				Run: SUB-C102832			06/17/08 11:27	
Mercury	0.0017	mg/L	0.0010	86	70	130			
Sample ID: B08060966-003BMSD	Sample Matrix Spike Duplicate				Run: SUB-C102832			06/17/08 11:29	
Mercury	0.0017	mg/L	0.0010	83	70	130	3.6	30	
Method: E245.1								Analytical Run: SUB-C102832	
Sample ID: QCS	Initial Calibration Verification Standard							06/17/08 09:18	
Mercury	0.0018	mg/L	0.0010	92	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35054
Sample ID: LFB0805282601-1	Laboratory Fortified Blank				Run: DIONEX_080529A				05/28/08 18:36
Chloride	4.44	mg/L	0.50	89	90	110			S
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: LFB0805282601-4	Laboratory Fortified Blank				Run: DIONEX_080529A				05/28/08 19:25
Chloride	4.44	mg/L	0.50	89	90	110			S
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.5	mg/L	1.0	90	90	110			
Sample ID: R08050356-001CMS	Sample Matrix Spike				Run: DIONEX_080529A				05/28/08 19:58
Chloride	235	mg/L	5.4	81	80	120			
Fluoride	87.9	mg/L	0.56	81	80	120			
Nitrogen, Nitrate as N	111	mg/L	1.3	84	80	120			
Sulfate	761	mg/L	3.4	78	80	120			S
Sample ID: R08050356-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080529A				05/28/08 20:14
Chloride	236	mg/L	5.4	82	80	120	0.7	10	
Fluoride	88.6	mg/L	0.56	82	80	120	0.8	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	85	80	120	1.0	10	
Sulfate	771	mg/L	3.4	79	80	120	1.3	10	S
Sample ID: R08050356-005CMS	Sample Matrix Spike				Run: DIONEX_080529A				05/28/08 23:15
Chloride	4.44	mg/L	0.50	89	80	120			
Fluoride	1.76	mg/L	0.10	83	80	120			
Nitrogen, Nitrate as N	2.23	mg/L	0.10	89	80	120			
Sulfate	13.4	mg/L	1.0	89	80	120			
Sample ID: R08050356-005CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080529A				05/28/08 23:31
Chloride	4.63	mg/L	0.50	93	80	120	4.2	10	
Fluoride	1.84	mg/L	0.10	87	80	120	4.4	10	
Nitrogen, Nitrate as N	2.32	mg/L	0.10	93	80	120	4.0	10	
Sulfate	13.9	mg/L	1.0	93	80	120	4.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35055
Sample ID: LFB0805292120-1	Laboratory Fortified Blank				Run: DIONEX_080530A				05/29/08 12:14
Chloride	4.69	mg/L	0.50	94	90	110			
Sample ID: LFB0805292120-4	Laboratory Fortified Blank				Run: DIONEX_080530A				05/29/08 13:03
Chloride	4.87	mg/L	0.50	97	90	110			
Sample ID: R08050352-001BMS	Sample Matrix Spike				Run: DIONEX_080530A				05/29/08 21:16
Chloride	90.6	mg/L	2.2	81	80	120			
Sample ID: R08050352-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080530A				05/29/08 21:32
Chloride	92.6	mg/L	2.2	83	80	120	2.2	10	
Method: E900.0									Batch: C_GrAB-0466
Sample ID: MB-GrAB-0466	Method Blank				Run: SUB-C103442				06/27/08 13:26
Gross Alpha	-0.4	pCi/L							U
Gross Beta	-0.5	pCi/L							U
Sample ID: C08060305-001AMS	Sample Matrix Spike				Run: SUB-C103442				06/27/08 13:26
Gross Alpha	150	pCi/L		105	70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103442				06/27/08 13:26
Gross Alpha	130	pCi/L		97	70	130	8.2	16.6	
Sample ID: UNAT-GrAB-0466	Laboratory Control Sample				Run: SUB-C103442				06/27/08 13:27
Gross Alpha	130	pCi/L		97	70	130			
Sample ID: Cs137-GrAB-0466	Laboratory Control Sample				Run: SUB-C103442				06/27/08 13:26
Gross Beta	110	pCi/L		113	70	130			
Sample ID: C08060305-001AMS	Sample Matrix Spike				Run: SUB-C103442				06/27/08 13:26
Gross Beta	110	pCi/L		120	70	130			
Sample ID: C08060305-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C103442				06/27/08 13:27
Gross Beta	110	pCi/L		115	70	130	5.0	15.8	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R102468
Sample ID: LCS-R102468	Laboratory Control Sample				Run: SUB-C102468				06/04/08 12:00
Americium 241	690	pCi/L	20	85	70	130			
Cesium 137	1000	pCi/L	20	73	70	130			
Potassium 40	6700	pCi/L	20	100	70	130			
Sample ID: MB-R102468	Method Blank				Run: SUB-C102468				06/04/08 12:00
Gross Gamma	ND	pCi/L							U
Sample ID: R08050356-004I	Sample Duplicate				Run: SUB-C102468				06/04/08 12:00
Gross Gamma	ND	pCi/L	20				0.0	30	U
Method: E903.0									Batch: C_18760
Sample ID: C08051260-001IMS	Sample Matrix Spike				Run: SUB-C102780				06/17/08 09:14
Radium 226	34	pCi/L		108	70	130			
Sample ID: C08051260-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C102780				06/17/08 09:14
Radium 226	32	pCi/L		97	70	130	6.8	21.5	
Sample ID: MB-18760	Method Blank				Run: SUB-C102780				06/17/08 10:48
Radium 226	-2	pCi/L							U
Sample ID: LCS-18760	Laboratory Control Sample				Run: SUB-C102780				06/17/08 10:48
Radium 226	17	pCi/L		111	70	130			
Method: E903.0									Batch: C_RA226-2858
Sample ID: R08050356-005J	Sample Matrix Spike				Run: SUB-C102969				06/19/08 02:32
Radium 226	17	pCi/L		109	70	130			
Sample ID: R08050356-005J	Sample Matrix Spike Duplicate				Run: SUB-C102969				06/19/08 02:32
Radium 226	18	pCi/L		112	70	130	3.1	23.6	
Sample ID: MB-RA226-2858	Method Blank				Run: SUB-C102969				06/19/08 02:32
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-2858	Laboratory Control Sample				Run: SUB-C102969				06/19/08 02:32
Radium 226	8.4	pCi/L		108	70	130			

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_18760
Sample ID: R08050419-002I	Sample Matrix Spike				Run: SUB-C103470				06/13/08 13:30
Thorium 230	22.2	pCi/L	0.20	95	70	130			
Sample ID: R08050419-002I	Sample Matrix Spike Duplicate				Run: SUB-C103470				06/13/08 13:30
Thorium 230	22.6	pCi/L	0.20	98	70	130	1.8	30	
Sample ID: LCS-18760	Laboratory Control Sample				Run: SUB-C103470				06/13/08 13:30
Thorium 230	51.6	pCi/L	0.20	106	70	130			
Sample ID: MB-18760	Method Blank				Run: SUB-C103470				06/13/08 13:30
Thorium 230	ND	pCi/L							U
Method: E907.0									Batch: C_R103514
Sample ID: LCS-R103514	Laboratory Control Sample				Run: SUB-C103514				06/16/08 13:30
Thorium 230	7.40	pCi/L	0.20	106	70	130			
Sample ID: C08060096-003HMS	Sample Matrix Spike				Run: SUB-C103514				06/16/08 13:30
Thorium 230	12.4	pCi/L	0.20	102	70	130			
Sample ID: C08060096-003HMSD	Sample Matrix Spike Duplicate				Run: SUB-C103514				06/16/08 13:30
Thorium 230	11.0	pCi/L	0.20	90	70	130	12	30	
Sample ID: MB-R103514	Method Blank				Run: SUB-C103514				06/16/08 13:30
Thorium 230	ND	pCi/L							
Method: E909.0M									Batch: C_18760
Sample ID: C08051260-002IMS	Sample Matrix Spike				Run: SUB-C103520				06/11/08 06:30
Lead 210	3000	pCi/L		127	70	130			
Sample ID: C08051260-002IMSD	Sample Matrix Spike Duplicate				Run: SUB-C103520				06/11/08 06:30
Lead 210	2100	pCi/L		89	70	130	35	30	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-R103520	Method Blank				Run: SUB-C103520				06/11/08 06:30
Lead 210	ND	pCi/L							U
Sample ID: LCS-R103520	Laboratory Control Sample				Run: SUB-C103520				06/11/08 06:30
Lead 210	230	pCi/L		98	70	130			

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R104380
Sample ID: C08060261-002EMS	Sample Matrix Spike				Run: SUB-C104380				07/08/08 11:20
Lead 210	670	pCi/L		114	70	130			
Sample ID: C08060261-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C104380				07/08/08 11:20
Lead 210	730	pCi/L		123	70	130	7.9	30	
Sample ID: MB-R104380	Method Blank				Run: SUB-C104380				07/08/08 11:20
Lead 210	0.1	pCi/L							
Sample ID: LCS-R104380	Laboratory Control Sample				Run: SUB-C104380				07/08/08 11:20
Lead 210	97	pCi/L		82	70	130			
Method: RMO-3008									Batch: C_18760
Sample ID: C08060130-004FMS	Sample Matrix Spike				Run: SUB-C103721				06/25/08 17:27
Polonium 210	51	pCi/L	1.0	117	70	130			
Sample ID: C08060130-004FMSD	Sample Matrix Spike Duplicate				Run: SUB-C103721				06/25/08 17:27
Polonium 210	48	pCi/L	1.0	109	70	130	6.9	30	
Sample ID: LCS-18760	Laboratory Control Sample				Run: SUB-C103721				06/25/08 17:27
Polonium 210	97	pCi/L	1.0	112	70	130			
Sample ID: MB-18760	Method Blank				Run: SUB-C103721				06/25/08 17:27
Polonium 210	-0.1	pCi/L							U
Method: RMO-3008									Batch: C_R103090
Sample ID: C08060097-005JMS	Sample Matrix Spike				Run: SUB-C103090				06/17/08 12:00
Polonium 210	110	pCi/L	1.0	127	70	130			
Sample ID: C08060097-005JMSD	Sample Matrix Spike Duplicate				Run: SUB-C103090				06/17/08 12:00
Polonium 210	130	pCi/L	1.0	148	70	130	15	30	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: LCS-R103090	Laboratory Control Sample				Run: SUB-C103090				06/17/08 12:00
Polonium 210	49	pCi/L	1.0	112	70	130			
Sample ID: MB-R103090	Method Blank				Run: SUB-C103090				06/17/08 12:00
Polonium 210	0.6	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 07/30/08
Work Order: R08050356

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R103750
Sample ID: R08050356-004K	Sample Matrix Spike				Run: SUB-C103750				07/01/08 14:30
Polonium 210	180	pCi/L	1.0	109	70	130			
Sample ID: R08050356-004K	Sample Matrix Spike Duplicate				Run: SUB-C103750				07/01/08 14:30
Polonium 210	170	pCi/L	1.0	101	70	130	8.2	30	
Sample ID: LCS-R103750	Laboratory Control Sample				Run: SUB-C103750				07/01/08 14:30
Polonium 210	130	pCi/L	1.0	152	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, and MSD are acceptable the batch is approved.									
Sample ID: MB-R103750	Method Blank				Run: SUB-C103750				07/01/08 14:30
Polonium 210	0.2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
RESPEC	POWERTECH Dewey Burdock	State: SD	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
LESPEC	cory.foreman@respec.com		Eric Krantz
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED: As Per Quote + Lead 210 + Polonium 210

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: All SW

Shipped by:

Cooler ID(s):

Receipt Temp 7.8 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	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)	Comments	LABORATORY USE ONLY
1	Dew Burd CHR05	5-26-08	13:00	W	Chey & Marietta Set 20	R0805035 6-001
2	Dew Burd BVC01	5-26-08	14:00	W	Beaver Cr @ Burdock Set 26	002
3	Dew Burd CHR01	5-26-08	14:45	W	Cheyenne & Anderson Set 14	003
4	Dew Burd BVC04	5-26-08	16:30	W	Beaver Cr in Wy USGS Set 22	004
5	Dew Burd BLK01	5-26-08	16:50	W	Set 30	005
6						
7						
8						
9						
10						

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
[illegible]	5/27/08 0910	Eric Krantz	Steve Froiland	5-27-08 9:10	[illegible]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

August 15, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060315 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060315-001	DewBurd CHR05	06/17/08 10:20	06/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060315-002	DewBurd BVC01	06/17/08 11:05	06/18/08	Aqueous	Same As Above
R08060315-003	DewBurd CHR01	06/17/08 11:38	06/18/08	Aqueous	Same As Above
R08060315-004	DewBurd BVC04	06/17/08 12:20	06/18/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

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

Report Approved By: _____
Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-001
Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
Collection Date: 06/17/08 10:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	28	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	224	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Bicarbonate as HCO3	273	mg/L		5		1	A2320 B	06/25/08 10:30/mb
Calcium	234	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Chloride	337	mg/L	D	5		50	E300.0	06/19/08 17:37/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/19/08 18:26/jmh
Magnesium	84.9	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 11:57/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 18:26/jmh
Potassium	10	mg/L		1		2	E200.7	07/08/08 18:28/eli-c
Silica	4.7	mg/L		0.5		2	E200.7	07/08/08 18:28/eli-c
Sodium	564	mg/L	D	2		2	E200.7	07/08/08 18:28/eli-c
Sulfate	1180	mg/L	D	3		50	E300.0	06/19/08 17:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3570	umhos/cm		5.0		1	A2510 B	06/19/08 14:37/tb
pH	8.30	s.u.		0.01		1	A4500-H B	06/19/08 11:47/tb
Sodium Adsorption Ratio (SAR)	8.0	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	91	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	2800	mg/L		5		1	A2540 C	06/18/08 15:36/mb
Solids, Total Suspended TSS @ 105 C	95	mg/L		5		1	A2540 D	06/18/08 15:04/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:03/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:28/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Manganese	0.16	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:03/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-001
Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
Collection Date: 06/17/08 10:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:03/eli-c
Uranium	0.0139	mg/L		0.0003		1	E200.8	07/17/08 16:03/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:28/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:28/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:18/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:18/eli-c
METALS - TOTAL								
Aluminum	5.3	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:24/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:24/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:35/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Iron	3.41	mg/L		0.03		2	E200.7	07/08/08 22:35/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:24/eli-c
Manganese	0.53	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:35/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:24/eli-c
Uranium	0.0173	mg/L		0.0003		1	E200.8	07/17/08 07:24/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:35/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:35/eli-c
Calcium	254	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Magnesium	92.4	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Potassium	11.7	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Silica	17.6	mg/L		0.5		2	E200.7	07/08/08 22:35/eli-c
Sodium	601	mg/L	D	1		2	E200.7	07/08/08 22:35/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-001
Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
Collection Date: 06/17/08 10:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:29/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:29/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:49/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:04/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/19/08 15:40/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.7	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	-0.1	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	29.9	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	9.6	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	11.9	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	-1.7	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	6.1	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	10.2	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.48	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	-0.04	pCi/L	U	0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-001
Client Sample ID: DewBurd CHR05

Report Date: 08/15/08
Collection Date: 06/17/08 10:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:42/eli-b
DATA QUALITY								
A/C Balance (± 5)	5.94	%				1	A1030 E	07/30/08 00:00/jmh
Anions	38.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	43.5	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2560	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	07/30/08 00:00/jmh

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-002
Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
Collection Date: 06/17/08 11:05
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	156	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Bicarbonate as HCO3	190	mg/L		5		1	A2320 B	06/25/08 10:34/mb
Calcium	358	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Chloride	970	mg/L	D	10		100	E300.0	06/20/08 22:59/jmh
Fluoride	0.6	mg/L		0.1		1	E300.0	06/19/08 18:59/jmh
Magnesium	124	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 11:58/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 18:59/jmh
Potassium	8	mg/L		1		2	E200.7	07/08/08 18:32/eli-c
Silica	2.2	mg/L		0.5		2	E200.7	07/08/08 18:32/eli-c
Sodium	856	mg/L	D	2		2	E200.7	07/08/08 18:32/eli-c
Sulfate	1410	mg/L	D	3		50	E300.0	06/19/08 18:42/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	5140	umhos/cm		5.0		1	A2510 B	06/19/08 14:39/tb
pH	8.13	s.u.		0.01		1	A4500-H B	06/19/08 11:50/tb
Sodium Adsorption Ratio (SAR)	9.9	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	59	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	4000	mg/L		5		1	A2540 C	06/18/08 15:38/mb
Solids, Total Suspended TSS @ 105 C	100	mg/L		5		1	A2540 D	06/18/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:10/eli-c
Iron	0.03	mg/L		0.03		2	E200.7	07/08/08 18:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Manganese	0.73	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:10/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-002
Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
Collection Date: 06/17/08 11:05
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:10/eli-c
Uranium	0.0092	mg/L		0.0003		1	E200.8	07/17/08 16:10/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:32/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:32/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:25/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:25/eli-c
METALS - TOTAL								
Aluminum	4.3	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:31/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:31/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:39/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Iron	3.02	mg/L		0.03		2	E200.7	07/08/08 22:39/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:31/eli-c
Manganese	0.97	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:39/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:31/eli-c
Uranium	0.0113	mg/L		0.0003		1	E200.8	07/17/08 07:31/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:39/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:39/eli-c
Calcium	362	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Magnesium	130	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Potassium	8.8	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Silica	12.9	mg/L		0.5		2	E200.7	07/08/08 22:39/eli-c
Sodium	902	mg/L	D	1		2	E200.7	07/08/08 22:39/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-002
Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
Collection Date: 06/17/08 11:05
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:31/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:31/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:51/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	-0.02	pCi/L	U			1	E903.0	07/19/08 18:40/eli-c
Radium 226 precision (±)	0.06	pCi/L				1	E903.0	07/19/08 18:40/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/19/08 18:40/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.9	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	8.9	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	10.9	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	17.1	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	-11.1	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	11.6	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	19.8	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.95	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-002
Client Sample ID: DewBurd BVC01

Report Date: 08/15/08
Collection Date: 06/17/08 11:05
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:46/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.51	%				1	A1030 E	07/30/08 00:00/jmh
Anions	59.9	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	65.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	3830	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.04					1	A1030 E	07/30/08 00:00/jmh

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-003
Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
Collection Date: 06/17/08 11:38
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	16	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	272	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Bicarbonate as HCO3	332	mg/L		5		1	A2320 B	06/25/08 10:37/mb
Calcium	161	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Chloride	78	mg/L	D	5		50	E300.0	06/19/08 19:15/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	06/19/08 19:31/jmh
Magnesium	65.8	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:02/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 19:31/jmh
Potassium	12	mg/L		1		2	E200.7	07/08/08 18:36/eli-c
Silica	6.1	mg/L		0.5		2	E200.7	07/08/08 18:36/eli-c
Sodium	471	mg/L	D	2		2	E200.7	07/08/08 18:36/eli-c
Sulfate	1090	mg/L	D	3		50	E300.0	06/19/08 19:15/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2770	umhos/cm		5.0		1	A2510 B	06/19/08 14:41/tb
pH	8.29	s.u.		0.01		1	A4500-H B	06/19/08 11:52/tb
Sodium Adsorption Ratio (SAR)	7.9	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	102	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	06/18/08 15:39/mb
Solids, Total Suspended TSS @ 105 C	110	mg/L		5		1	A2540 D	06/18/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:17/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:36/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:17/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-003
Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
Collection Date: 06/17/08 11:38
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:17/eli-c
Uranium	0.0177	mg/L		0.0003		1	E200.8	07/17/08 16:17/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:36/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:36/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:32/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:32/eli-c
METALS - TOTAL								
Aluminum	5.1	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Arsenic	0.003	mg/L	D	0.002		1	E200.8	07/17/08 07:40/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:40/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:44/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Iron	2.99	mg/L		0.03		2	E200.7	07/08/08 22:44/eli-c
Lead	0.003	mg/L		0.001		1	E200.8	07/17/08 07:40/eli-c
Manganese	0.38	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:40/eli-c
Uranium	0.0214	mg/L		0.0003		1	E200.8	07/17/08 07:40/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:44/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:44/eli-c
Calcium	175	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Magnesium	70.5	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Potassium	13.2	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Silica	18.1	mg/L		0.5		2	E200.7	07/08/08 22:44/eli-c
Sodium	509	mg/L	D	1		2	E200.7	07/08/08 22:44/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:31/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-003
Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
Collection Date: 06/17/08 11:38
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:33/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:33/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:08/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/19/08 21:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.9	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	1.1	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	35.3	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	8.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	9.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	15.5	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	6.2	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	10.0	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.72	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	0.08	pCi/L	U	0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-003
Client Sample ID: DewBurd CHR01

Report Date: 08/15/08
Collection Date: 06/17/08 11:38
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:49/eli-b
DATA QUALITY								
A/C Balance (± 5)	6.05	%				1	A1030 E	07/30/08 00:00/jmh
Anions	30.3	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	34.2	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	07/30/08 00:00/jmh

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-004
Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
Collection Date: 06/17/08 12:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	44	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	148	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Bicarbonate as HCO3	180	mg/L		5		1	A2320 B	06/25/08 10:39/mb
Calcium	300	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Chloride	739	mg/L	D	10		100	E300.0	06/20/08 23:16/jmh
Fluoride	0.7	mg/L		0.1		1	E300.0	06/19/08 20:04/jmh
Magnesium	105	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:05/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 20:04/jmh
Potassium	9	mg/L		1		2	E200.7	07/08/08 18:48/eli-c
Silica	4.1	mg/L		0.5		2	E200.7	07/08/08 18:48/eli-c
Sodium	743	mg/L	D	2		2	E200.7	07/08/08 18:48/eli-c
Sulfate	1090	mg/L	D	7		100	E300.0	06/20/08 23:16/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	514	umhos/cm		5.0		1	A2510 B	06/19/08 14:46/tb
pH	8.14	s.u.		0.01		1	A4500-H B	06/19/08 11:59/tb
Sodium Adsorption Ratio (SAR)	9.4	unitless		0.10		1	Calculation	07/30/08 09:24/ADM
Solids, Suspended Sediment SSC @ 105 C	51	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3500	mg/L		5		1	A2540 C	06/18/08 15:39/mb
Solids, Total Suspended TSS @ 105 C	55	mg/L		5		1	A2540 D	06/18/08 15:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/17/08 16:24/eli-c
Iron	ND	mg/L		0.03		2	E200.7	07/08/08 18:48/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Manganese	0.28	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 16:24/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-004
Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
Collection Date: 06/17/08 12:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 16:24/eli-c
Uranium	0.0078	mg/L		0.0003		1	E200.8	07/17/08 16:24/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 18:48/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 18:48/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:38/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:38/eli-c
METALS - TOTAL								
Aluminum	3.2	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Arsenic	0.004	mg/L	D	0.002		1	E200.8	07/17/08 07:46/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 07:46/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:48/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	07/30/08 00:00/jmh
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Iron	2.69	mg/L		0.03		2	E200.7	07/08/08 22:48/eli-c
Lead	0.002	mg/L		0.001		1	E200.8	07/17/08 07:46/eli-c
Manganese	0.44	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 22:48/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:38/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 07:46/eli-c
Uranium	0.0097	mg/L		0.0003		1	E200.8	07/17/08 07:46/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:48/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 22:48/eli-c
Calcium	309	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Magnesium	111	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Potassium	9.7	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Silica	12.9	mg/L		0.5		2	E200.7	07/08/08 22:48/eli-c
Sodium	770	mg/L	D	1		2	E200.7	07/08/08 22:48/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-004
Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
Collection Date: 06/17/08 12:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/19/08 14:35/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:35/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:55/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:10/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.1	pCi/L	U			1	E903.0	07/20/08 00:41/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/20/08 00:41/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/20/08 00:41/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/17/08 09:01/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/17/08 09:01/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	-0.7	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	0.9	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	3.9	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Alpha precision (±)	9.1	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Alpha MDC	14.8	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta	-12.4	pCi/L	U			1	E900.0	07/22/08 12:23/eli-c
Gross Beta precision (±)	8.8	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Beta MDC	15.1	pCi/L				1	E900.0	07/22/08 12:23/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	-0.53	pCi/L	U	0.2		1	E903.0	07/28/08 15:32/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	07/28/08 15:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/28/08 15:32/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/28/08 15:32/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060315-004
Client Sample ID: DewBurd BVC04

Report Date: 08/15/08
Collection Date: 06/17/08 12:20
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 08:51/eli-b
DATA QUALITY								
A/C Balance (± 5)	9.39	%				1	A1030 E	07/30/08 00:00/jmh
Anions	46.6	meq/L				1	A1030 E	07/30/08 00:00/jmh
Cations	56.2	meq/L				1	A1030 E	07/30/08 00:00/jmh
Solids, Total Dissolved Calculated	3090	mg/L				1	A1030 E	07/30/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.12					1	A1030 E	07/30/08 00:00/jmh

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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080625A-ALK-SEL-W	
Sample ID: LCS1_080625A	Laboratory Control Sample				Run: PH_COND1-R_080625A			06/25/08 09:31	
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080625A	Method Blank				Run: PH_COND1-R_080625A			06/25/08 09:34	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08060297-006AMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 10:19	
Alkalinity, Total as CaCO3	176	mg/L	5.0	100	80	120			
Sample ID: R08060297-006AMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 10:21	
Alkalinity, Total as CaCO3	174	mg/L	5.0	98	80	120	1.1	10	
Sample ID: R08060319-002DMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 10:59	
Alkalinity, Total as CaCO3	392	mg/L	5.0	98	80	120			
Sample ID: R08060319-002DMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 11:03	
Alkalinity, Total as CaCO3	390	mg/L	5.0	96	80	120	0.5	10	
Method: A2510 B								Batch: 080619_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:11	
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:13	
Conductivity @ 25 C	148	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:14	
Conductivity @ 25 C	5020	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080619	Method Blank				Run: PH_COND2-R_080619B			06/19/08 14:53	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 080618A-SLDS-TDS-W	
Sample ID: LCS1_080618A	Laboratory Control Sample				Run: BAL-4-R_080618B			06/18/08 15:17	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	106	90	110			
Sample ID: MBLK1_080618A	Method Blank				Run: BAL-4-R_080618B			06/18/08 15:18	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060315-001CMS	Sample Matrix Spike				Run: BAL-4-R_080618B			06/18/08 15:37	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	101	80	120			
Sample ID: R08060315-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080618B			06/18/08 15:37	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	111	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080618A-SLDS-TSS-W	
Sample ID: LCS1_080618A	Laboratory Control Sample				Run: BAL-4-R_080618A			06/18/08 14:26	
Solids, Total Suspended TSS @ 105 C	170	mg/L	5.0	86	85	115			
Sample ID: MBLK1_080618A	Method Blank				Run: BAL-4-R_080618A			06/18/08 14:27	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B								Batch: C_SE3114-080719C	
Sample ID: MBLK	Method Blank				Run: SUB-C104484			07/19/08 14:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104484			07/19/08 14:20	
Selenium	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:24	
Selenium	0.051	mg/L	0.0010	102	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:26	
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	
Method: A3114 B								Batch: C_SE3114-080722B	
Sample ID: MBLK	Method Blank				Run: SUB-C104619			07/22/08 10:52	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104619			07/22/08 10:55	
Selenium-IV	0.053	mg/L	0.0010	106	90	110			
Sample ID: C08060993-001HMS	Sample Matrix Spike				Run: SUB-C104619			07/22/08 10:59	
Selenium-IV	0.054	mg/L	0.0010	108	85	115			
Sample ID: C08060993-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104619			07/22/08 11:02	
Selenium-IV	0.053	mg/L	0.0010	107	85	115	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080722C	
Sample ID: MBLK	Method Blank				Run: SUB-C104640				07/22/08 14:38
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104640				07/22/08 14:40
Selenium	0.052	mg/L	0.0010	104	90	110			
Sample ID: C08060993-001HMS	Sample Matrix Spike				Run: SUB-C104640				07/22/08 14:45
Selenium	0.053	mg/L	0.0010	104	85	115			
Sample ID: C08060993-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104640				07/22/08 14:47
Selenium	0.052	mg/L	0.0010	102	85	115	1.4	10	
Method: A3500-Cr B								Batch: 080618-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.007	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	94	80	120			
Sample ID: R08060315-001E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Sample ID: R08060315-002E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	97	80	120			
Sample ID: R08060315-003E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.20	mg/L	0.0050	98	80	120			
Sample ID: R08060315-004E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.20	mg/L	0.0050	98	80	120			
Method: A4500-H B								Batch: 080619_2_PH-W	
Sample ID: LCS_pH-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619A				06/19/08 11:37
pH	6.91	s.u.	0.010	101	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-06-19_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080619A			06/19/08 10:10	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:12	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:22	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	90	110			S
Sample ID: R08060315-003FMS	Sample Matrix Spike				Run: TECHAA2-R_080619A			06/19/08 12:03	
Nitrogen, Ammonia as N	0.20	mg/L	0.10	80	80	120			
Sample ID: R08060315-003FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080619A			06/19/08 12:04	
Nitrogen, Ammonia as N	0.18	mg/L	0.10	72	80	120	10.0	10	S
Method: A9222 D								Batch: 080618-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080618B			06/18/08 10:55	
Bacteria, Fecal Coliform	ND	CFU/100ml							
Sample ID: R08060316-001D	Sample Duplicate				Run: MEMFILT_080618B			06/18/08 10:55	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18911
Sample ID: MB-18911	Method Blank				Run: SUB-C103914				07/08/08 22:15
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	0.0004	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.02	mg/L	0.005						
Zinc	0.004	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.1	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18911	Laboratory Control Sample				Run: SUB-C103914				07/08/08 22:19
Aluminum	2.48	mg/L	0.10	99	85	115			
Barium	0.516	mg/L	0.10	103	85	115			
Boron	0.549	mg/L	0.10	103	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.517	mg/L	0.010	103	85	115			
Iron	2.70	mg/L	0.030	108	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.515	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	103	85	115			
Zinc	0.515	mg/L	0.010	102	85	115			
Calcium	26.6	mg/L	1.0	107	85	115			
Magnesium	27.1	mg/L	1.0	108	85	115			
Potassium	25.6	mg/L	1.0	102	85	115			
Silica	5.55	mg/L	0.10	108	85	115			
Sodium	24.8	mg/L	1.0	99	85	115			
Sample ID: C08060996-001D MS3	Sample Matrix Spike				Run: SUB-C103914				07/08/08 23:08
Aluminum	2.48	mg/L	0.10	99	70	130			
Barium	0.509	mg/L	0.10	100	70	130			
Boron	0.586	mg/L	0.10	102	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18911
Sample ID: C08060996-001D MS3	Sample Matrix Spike				Run: SUB-C103914				07/08/08 23:08
Iron	15.9	mg/L	0.030		70	130			A
Manganese	4.23	mg/L	0.010	102	70	130			
Molybdenum	0.506	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Vanadium	0.522	mg/L	0.10	104	70	130			
Zinc	0.618	mg/L	0.010	102	70	130			
Calcium	389	mg/L	1.0		70	130			A
Magnesium	154	mg/L	1.0		70	130			A
Potassium	41.8	mg/L	1.0	101	70	130			
Silica	10.1	mg/L	0.10	115	70	130			
Sodium	115	mg/L	1.1	113	70	130			
Sample ID: C08060996-001D MSD3	Sample Matrix Spike Duplicate				Run: SUB-C103914				07/08/08 23:12
Aluminum	2.52	mg/L	0.10	101	70	130	1.3	20	
Barium	0.515	mg/L	0.10	101	70	130	1.1	20	
Boron	0.585	mg/L	0.10	102	70	130	0.2	20	
Chromium	0.520	mg/L	0.050	104	70	130	1.2	20	
Copper	0.523	mg/L	0.010	102	70	130	1.3	20	
Iron	16.3	mg/L	0.030		70	130	2.4	20	A
Manganese	4.31	mg/L	0.010	105	70	130	2.0	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.4	20	
Nickel	0.510	mg/L	0.050	102	70	130	0.4	20	
Vanadium	0.526	mg/L	0.10	105	70	130	0.7	20	
Zinc	0.624	mg/L	0.010	104	70	130	1.0	20	
Calcium	399	mg/L	1.0		70	130	2.5	20	A
Magnesium	157	mg/L	1.0		70	130	1.8	20	A
Potassium	42.8	mg/L	1.0	105	70	130	2.4	20	
Silica	10.3	mg/L	0.10	119	70	130	2.0	20	
Sodium	117	mg/L	1.1	119	70	130	1.4	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R103914
Sample ID: MB-080708A	Method Blank				Run: SUB-C103914				07/08/08 13:45
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	0.002	mg/L	0.002						
Iron	0.005	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.010	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080708A	Laboratory Fortified Blank				Run: SUB-C103914				07/08/08 13:49
Silica	0.39	mg/L	0.10	97	85	125			
Aluminum	0.96	mg/L	0.10	96	85	125			
Barium	1.0	mg/L	0.10	101	85	125			
Boron	1.0	mg/L	0.10	101	85	125			
Calcium	51	mg/L	0.50	103	85	125			
Chromium	1.0	mg/L	0.050	102	85	125			
Iron	1.1	mg/L	0.030	108	85	125			
Magnesium	53	mg/L	0.50	105	85	125			
Manganese	1.0	mg/L	0.010	103	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	46	mg/L	0.50	91	85	125			
Sodium	48	mg/L	0.77	95	85	125			
Vanadium	1.1	mg/L	0.10	108	85	125			
Zinc	1.0	mg/L	0.010	100	85	125			
Sample ID: R08060315-003A	Sample Matrix Spike				Run: SUB-C103914				07/08/08 18:40
Aluminum	2.05	mg/L	0.10	103	70	130			
Barium	2.05	mg/L	0.10	98	70	130			
Boron	2.12	mg/L	0.10	98	70	130			
Chromium	2.02	mg/L	0.050	101	70	130			
Iron	2.07	mg/L	0.030	104	70	130			
Manganese	2.02	mg/L	0.010	99	70	130			
Molybdenum	2.00	mg/L	0.10	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R103914	
Sample ID: R08060315-003A	Sample Matrix Spike				Run: SUB-C103914			07/08/08 18:40	
Nickel	1.97	mg/L	0.050	99	70	130			
Vanadium	2.06	mg/L	0.10	100	70	130			
Zinc	2.01	mg/L	0.010	100	70	130			
Calcium	260	mg/L	1.0	99	70	130			
Magnesium	165	mg/L	1.0	99	70	130			
Potassium	104	mg/L	1.0	92	70	130			
Silica	6.43	mg/L	0.10		70	130			A
Sodium	551	mg/L	1.5		70	130			A
Sample ID: R08060315-003A	Sample Matrix Spike Duplicate				Run: SUB-C103914			07/08/08 18:44	
Aluminum	2.13	mg/L	0.10	106	70	130	3.5	20	
Barium	2.08	mg/L	0.10	100	70	130	1.6	20	
Boron	2.21	mg/L	0.10	103	70	130	4.3	20	
Chromium	2.08	mg/L	0.050	104	70	130	3.0	20	
Iron	2.13	mg/L	0.030	106	70	130	2.5	20	
Manganese	2.09	mg/L	0.010	103	70	130	3.3	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	2.0	20	
Nickel	2.05	mg/L	0.050	102	70	130	3.8	20	
Vanadium	2.09	mg/L	0.10	101	70	130	1.4	20	
Zinc	2.08	mg/L	0.010	104	70	130	3.6	20	
Calcium	258	mg/L	1.0	97	70	130	0.6	20	
Magnesium	163	mg/L	1.0	97	70	130	1.4	20	
Potassium	102	mg/L	1.0	90	70	130	1.6	20	
Silica	6.47	mg/L	0.10		70	130	0.7	20	A
Sodium	558	mg/L	1.5		70	130	1.3	20	A
Sample ID: C08070109-003CMS2	Sample Matrix Spike				Run: SUB-C103914			07/08/08 21:02	
Aluminum	4.97	mg/L	0.10	99	70	130			
Barium	4.88	mg/L	0.10	93	70	130			
Boron	5.39	mg/L	0.10	94	70	130			
Chromium	4.90	mg/L	0.050	98	70	130			
Iron	4.95	mg/L	0.030	99	70	130			
Manganese	4.71	mg/L	0.010	94	70	130			
Molybdenum	5.12	mg/L	0.10	101	70	130			
Nickel	4.79	mg/L	0.050	96	70	130			
Vanadium	4.99	mg/L	0.10	99	70	130			
Zinc	5.03	mg/L	0.011	96	70	130			
Calcium	727	mg/L	1.0	98	70	130			
Magnesium	364	mg/L	1.0	97	70	130			
Potassium	290	mg/L	1.0	85	70	130			
Silica	100	mg/L	0.10		70	130			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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R103914	
Sample ID: C08070109-003CMS2	Sample Matrix Spike				Run: SUB-C103914			07/08/08 21:02	
Sodium	828	mg/L	3.9	93	70	130			
Sample ID: C08070109-003CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C103914			07/08/08 21:06	
Aluminum	5.03	mg/L	0.10	100	70	130	1.2	20	
Barium	5.05	mg/L	0.10	96	70	130	3.5	20	
Boron	5.53	mg/L	0.10	97	70	130	2.5	20	
Chromium	4.99	mg/L	0.050	99	70	130	1.9	20	
Iron	5.06	mg/L	0.030	101	70	130	2.1	20	
Manganese	4.87	mg/L	0.010	97	70	130	3.4	20	
Molybdenum	5.11	mg/L	0.10	101	70	130	0.1	20	
Nickel	4.88	mg/L	0.050	98	70	130	1.7	20	
Vanadium	5.06	mg/L	0.10	100	70	130	1.4	20	
Zinc	5.16	mg/L	0.011	98	70	130	2.6	20	
Calcium	729	mg/L	1.0	99	70	130	0.4	20	
Magnesium	364	mg/L	1.0	97	70	130	0.1	20	
Potassium	299	mg/L	1.0	89	70	130	3.1	20	
Silica	99.6	mg/L	0.10		70	130	0.6	20	A
Sodium	824	mg/L	3.9	91	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18911
Sample ID: MB-18911	Method Blank				Run: SUB-C104345				07/17/08 06:17
Arsenic	0.001	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Mercury	ND	mg/L	6E-06						
Silver	9E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18911	Laboratory Control Sample				Run: SUB-C104345				07/17/08 06:24
Arsenic	0.523	mg/L	0.0010	104	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.499	mg/L	0.050	100	85	115			
Silver	0.0426	mg/L	0.010	85	85	115			
Thorium 232	0.518	mg/L	0.0010	104	85	115			
Uranium	0.521	mg/L	0.00032	104	85	115			
Sample ID: C08060996-001DMS3	Sample Matrix Spike				Run: SUB-C104345				07/17/08 08:20
Arsenic	5.26	mg/L	0.0010	105	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Thorium 232	6.11	mg/L	0.0010	122	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Sample ID: C08060996-001DMSD3	Sample Matrix Spike Duplicate				Run: SUB-C104345				07/17/08 08:25
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Thorium 232	6.22	mg/L	0.0010	124	70	130	1.8	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104438	
Sample ID: LRB	Method Blank				Run: SUB-C104438			07/17/08 11:20	
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104438			07/17/08 11:26	
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Copper	0.0517	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: R08060315-004A	Post Digestion Spike				Run: SUB-C104438			07/17/08 16:47	
Arsenic	0.0487	mg/L	0.0010	95	70	130			
Cadmium	0.0441	mg/L	0.010	88	70	130			
Copper	0.0468	mg/L	0.010	86	70	130			
Lead	0.0482	mg/L	0.050	96	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Silver	0.0147	mg/L	0.010	74	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0584	mg/L	0.00030	101	70	130			
Sample ID: R08060315-004A	Post Digestion Spike Duplicate				Run: SUB-C104438			07/17/08 16:54	
Arsenic	0.0505	mg/L	0.0010	99	70	130	3.5	20	
Cadmium	0.0441	mg/L	0.010	88	70	130	0.1	20	
Copper	0.0485	mg/L	0.010	90	70	130	3.7	20	
Lead	0.0484	mg/L	0.050	97	70	130	0.0	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	0.8	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.7	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	1.3	20	
Uranium	0.0586	mg/L	0.00030	102	70	130	0.4	20	
Sample ID: C08061333-001CMS4	Post Digestion Spike				Run: SUB-C104438			07/17/08 20:17	
Arsenic	0.0486	mg/L	0.0010	96	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104438	
Sample ID: C08061333-001CMS4	Post Digestion Spike				Run: SUB-C104438			07/17/08 20:17	
Cadmium	0.0455	mg/L	0.010	91	70	130			
Copper	0.0450	mg/L	0.010	90	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: C08061333-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C104438			07/17/08 20:24	
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Copper	0.0453	mg/L	0.010	90	70	130	0.7	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	
Method: E245.1								Batch: C_B_33204	
Sample ID: MB-33204	Method Blank				Run: SUB-C103539			06/30/08 07:09	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank				Run: SUB-C103539			06/30/08 07:12	
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08062269-001DMS	Sample Matrix Spike				Run: SUB-C103539			06/30/08 08:31	
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062269-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C103539			06/30/08 08:33	
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1								Analytical Run: SUB-C103539	
Sample ID: QCS	Initial Calibration Verification Standard							06/30/08 06:57	
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35577
Sample ID: LFB0806190922-3	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:04
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:20
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060315-001CMS	Sample Matrix Spike				Run: DIONEX_080619A				06/19/08 17:53
Chloride	570	mg/L	5.4	93	80	120			
Fluoride	93.9	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	1820	mg/L	3.4	85	80	120			
Sample ID: R08060315-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080619A				06/19/08 18:09
Chloride	564	mg/L	5.4	91	80	120	1.1	10	
Fluoride	90.5	mg/L	0.56	82	80	120	3.7	10	
Nitrogen, Nitrate as N	113	mg/L	1.3	91	80	120	3.6	10	
Sulfate	1810	mg/L	3.4	84	80	120	0.6	10	
Sample ID: R08060316-001CMS	Sample Matrix Spike				Run: DIONEX_080619A				06/19/08 21:10
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	83	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Sulfate	910	mg/L	3.4	82	80	120			
Sample ID: R08060316-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080619A				06/19/08 21:26
Chloride	234	mg/L	5.4	85	80	120	1.3	10	
Fluoride	89.7	mg/L	0.56	81	80	120	3.1	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.3	10	
Sulfate	891	mg/L	3.4	80	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35594
Sample ID: LFB0806204637-3	Laboratory Fortified Blank				Run: DIONEX_080620A				06/20/08 16:58
Chloride	4.82	mg/L	0.50	96	90	110			
Sulfate	14.2	mg/L	1.0	94	90	110			
Sample ID: LFB0806204637-4	Laboratory Fortified Blank				Run: DIONEX_080620A				06/20/08 17:15
Chloride	4.65	mg/L	0.50	93	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: R08060318-001DMS	Sample Matrix Spike				Run: DIONEX_080620A				06/21/08 00:21
Chloride	30.0	mg/L	0.54	87	80	120			
Sulfate	179	mg/L	1.0	76	80	120			S
Sample ID: R08060318-001DMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080620A				06/21/08 00:38
Chloride	29.5	mg/L	0.54	85	80	120	1.7	10	
Sulfate	179	mg/L	1.0	75	80	120	0.5	10	S
Method: E900.0									Batch: C_GrAB-0482
Sample ID: MB-GrAB-0482	Method Blank				Run: SUB-C104710				07/22/08 12:23
Gross Alpha	-0.2	pCi/L							U
Gross Beta	-4	pCi/L							U
Sample ID: UNAT-GrAB-0482	Laboratory Control Sample				Run: SUB-C104710				07/22/08 12:23
Gross Alpha	160	pCi/L		114	70	130			
Sample ID: Cs137-GrAB-0482	Laboratory Control Sample				Run: SUB-C104710				07/22/08 12:23
Gross Beta	96	pCi/L		106	70	130			
Sample ID: C08061193-001AMS	Sample Matrix Spike				Run: SUB-C104710				07/23/08 00:55
Gross Alpha	94	pCi/L		68	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: C08061193-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104710				07/23/08 00:55
Gross Alpha	82	pCi/L		60	70	130	13	19	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: C08061193-001AMS	Sample Matrix Spike				Run: SUB-C104710				07/23/08 00:55
Gross Beta	91	pCi/L		97	70	130			
Sample ID: C08061193-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104710				07/23/08 00:55
Gross Beta	90	pCi/L		96	70	130	0.8	16.4	

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R103216
Sample ID: LCS-R103216	Laboratory Control Sample				Run: SUB-C103216				06/20/08 16:37
Cesium 137	457000	pCi/Filter	20	106	70	130			
Cobalt 60	325000	pCi/Filter	20	102	0	0			S
Sample ID: MB-R103216	Method Blank				Run: SUB-C103216				06/20/08 16:37
Gross Gamma		pCi/Filter	20						U
Sample ID: R08060315-004I	Sample Duplicate				Run: SUB-C103216				06/20/08 16:37
Gross Gamma	ND	pCi/L	20				0.0	30	
Method: E903.0									Batch: C_18917
Sample ID: R08060315-004K	Sample Matrix Spike				Run: SUB-C104309				07/15/08 14:46
Radium 226	160	pCi/L		100	70	130			
Sample ID: R08060315-004K	Sample Matrix Spike Duplicate				Run: SUB-C104309				07/15/08 14:46
Radium 226	170	pCi/L		110	70	130	9.7	24.6	
Sample ID: LCS-18917	Laboratory Control Sample				Run: SUB-C104309				07/15/08 14:46
Radium 226	16	pCi/L		112	70	130			
Sample ID: MB-18917	Method Blank				Run: SUB-C104309				07/15/08 16:22
Radium 226	-2	pCi/L							U
Method: E903.0									Batch: C_RA226-2924
Sample ID: C08061135-002FMS	Sample Matrix Spike				Run: SUB-C104742				07/20/08 06:42
Radium 226	12	pCi/L		74	70	130			
Sample ID: C08061135-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C104742				07/20/08 08:12
Radium 226	11	pCi/L		71	70	130	3.8	26.6	
Sample ID: MB-RA226-2924	Method Blank				Run: SUB-C104742				07/20/08 23:14
Radium 226	0.009	pCi/L							U
Sample ID: LCS-RA226-2924	Laboratory Control Sample				Run: SUB-C104742				07/21/08 00:45
Radium 226	8.1	pCi/L		103	70	130			

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/15/08
Work Order: R08060315

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_18917
Sample ID: C08060996-001IMS	Sample Matrix Spike				Run: SUB-C104217				07/13/08 18:14
Thorium 230	19.7	pCi/L	0.20	85	70	130			
Sample ID: C08060996-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104217				07/13/08 18:14
Thorium 230	21.7	pCi/L	0.20	96	70	130	9.5	30	
Sample ID: LCS-18917	Laboratory Control Sample				Run: SUB-C104217				07/13/08 18:14
Thorium 230	51.9	pCi/L	0.20	108	70	130			
Sample ID: MB-18917	Method Blank				Run: SUB-C104217				07/13/08 18:14
Thorium 230	0.7	pCi/L							
Method: E907.0									Batch: C_RA-TH-ISO-0565
Sample ID: LCS-RA-TH-ISO-0565	Laboratory Control Sample				Run: SUB-C104883				07/17/08 08:51
Thorium 230	5.53	pCi/L	0.20	90	70	130			
Sample ID: C08060993-001JMS	Sample Matrix Spike				Run: SUB-C104883				07/17/08 08:59
Thorium 230	14.2	pCi/L	0.20	87	70	130			
Sample ID: C08060993-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C104883				07/17/08 08:59
Thorium 230	14.4	pCi/L	0.20	88	70	130	1.7	30	
Sample ID: MB-RA-TH-ISO-0565	Method Blank				Run: SUB-C104883				07/17/08 09:02
Thorium 230	0.01	pCi/L							U

Qualifiers:

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

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc. Powertech Dewey Burdock	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Cory.foreman@respec.com Phone/Fax:	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

Number of Containers
Sample Type: A W S V B O
Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED: As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: SW stream

Shipped by:

Cooler ID(s):

Receipt Temp 4.4 °C

On Ice: Yes No

Custody Seal Y N
Intact Y N
Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX		LABORATORY USE ONLY
1	Dew Burd CHR05	6/17/08	10:20	W	~~set 5~~ set 15	R0806031 5-001
2	Dew Burd ~~CHR~~ BVC01	6/17/08	11:05	W	set 19	002
3	Dew Burd CHR01	6/17/08	11:38	W	set 31	003
4	Dew Burd BVC04	6/17/08	12:20	W	set 5	004
5						
6						
7						
8						
9						
10						

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	6/18/08 0630	[signature]	Matt Stoltenberg	6-18-08 0630	[signature]
Matt Stoltenberg	6/18/08 8:50	[signature]	Steve Fruland	6-18-08 8:50	[signature]

Received by Laboratory: Date/Time: Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

August 20, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060316 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 6/18/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060316-001	DewBurd SUB04	06/17/08 14:00	06/18/08	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Bacteria, Fecal Coliform
					Conductivity
					Chromium, Hexavalent
					Chromium, Trivalent
					Mercury, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium-VI, Total
					Anions by Ion Chromatography
					Nitrogen, Ammonia
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, Total Metals
					Digestion, As/Se by Hydride
					Dissolved Filtration
					Digestion, Mercury by CVAA
					Gross Alpha, Gross Beta
					Gross Gamma
					Lead 210, Dissolved
					Lead 210, Suspended
					Lead 210, Total
					Polonium 210, Dissolved
					Polonium 210, Suspended
					Polonium 210, Total
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Thorium, Isotopic
					Sodium Adsorption Ratio
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: _____
Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *20-Aug-08*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060316

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08060993
ANALYTICAL COMMENTS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.
End of comments imported for SUBBED Workorder: C08060993

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060316-001
Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
Collection Date: 06/17/08 14:00
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/18/08 10:55/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 10:42/mb
Calcium	64.8	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Chloride	2	mg/L		1		1	E300.0	06/19/08 21:43/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/19/08 21:43/jmh
Magnesium	27.3	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:06/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/19/08 21:43/jmh
Potassium	14	mg/L		1		1	E200.7	07/07/08 17:57/eli-c
Silica	3.7	mg/L		0.5		1	E200.7	07/07/08 17:57/eli-c
Sodium	2.9	mg/L	D	0.8		1	E200.7	07/07/08 17:57/eli-c
Sulfate	291	mg/L	D	3		50	E300.0	06/19/08 20:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	692	umhos/cm		5.0		1	A2510 B	06/19/08 14:49/tb
pH	4.89	s.u.		0.01		1	A4500-H B	06/19/08 12:06/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	08/20/08 11:24/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	450	mg/L		5		1	A2540 C	06/18/08 15:40/mb
Solids, Total Suspended TSS @ 105 C	ND	mg/L		5		1	A2540 D	06/18/08 15:06/mb
METALS - DISSOLVED								
Aluminum	0.4	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Barium	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Boron	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Chromium	ND	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Copper	ND	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Iron	ND	mg/L		0.03		1	E200.7	07/07/08 17:57/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Manganese	5.20	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/17/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060316-001
Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
Collection Date: 06/17/08 14:00
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	0.09	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/17/08 15:57/eli-c
Uranium	0.0006	mg/L		0.0003		1	E200.8	07/17/08 15:57/eli-c
Vanadium	ND	mg/L		0.1		1	E200.7	07/07/08 17:57/eli-c
Zinc	0.07	mg/L		0.01		1	E200.7	07/07/08 17:57/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/17/08 22:12/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/17/08 22:12/eli-c
METALS - TOTAL								
Aluminum	0.5	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Arsenic	ND	mg/L	D	0.002		10	E200.8	07/17/08 06:58/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/17/08 06:58/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 22:31/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/18/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Iron	0.18	mg/L		0.03		2	E200.7	07/08/08 22:31/eli-c
Lead	ND	mg/L		0.001		10	E200.8	07/17/08 06:58/eli-c
Manganese	5.18	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Nickel	0.10	mg/L		0.05		2	E200.7	07/08/08 22:31/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/17/08 21:11/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/17/08 06:58/eli-c
Uranium	0.0007	mg/L		0.0003		10	E200.8	07/17/08 06:58/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 22:31/eli-c
Zinc	0.06	mg/L		0.01		2	E200.7	07/08/08 22:31/eli-c
Calcium	61.7	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Magnesium	26.8	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Potassium	14.7	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Silica	3.9	mg/L		0.5		2	E200.7	07/08/08 22:31/eli-c
Sodium	3	mg/L	D	1		2	E200.7	07/08/08 22:31/eli-c
METALS - DISSOLVED - SPECIATED								

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060316-001
Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
Collection Date: 06/17/08 14:00
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:23/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	07/22/08 14:42/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 10:57/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-2.1	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	3.1	pCi/L				1	E903.0	07/16/08 07:03/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/16/08 07:03/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/16/08 07:03/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/16/08 20:29/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/16/08 20:29/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	6.7	pCi/L	U			1	E909.0M	07/14/08 09:30/eli-c
Lead 210 precision (±)	11.9	pCi/L				1	E909.0M	07/14/08 09:30/eli-c
Lead 210 MDC	19.8	pCi/L				1	E909.0M	07/14/08 09:30/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.37	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	07/15/08 14:46/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	07/15/08 14:46/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	07/13/08 18:14/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/13/08 18:14/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	3.0	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Alpha MDC	1.8	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Beta	13.0	pCi/L				1	E900.0	07/21/08 22:49/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060316-001
Client Sample ID: DewBurd SUB04

Report Date: 08/20/08
Collection Date: 06/17/08 14:00
Date Received: 06/18/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Beta precision (±)	1.8	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Beta MDC	2.7	pCi/L				1	E900.0	07/21/08 22:49/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/20/08 16:37/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/20/08 16:37/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-3	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	08/19/08 13:45/eli-c
Polonium 210 precision (±)	0.6	pCi/L				1	RMO-3008	08/19/08 13:45/eli-c
Radium 226	2.7	pCi/L				1	E903.0	08/19/08 13:45/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/19/08 13:45/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/19/08 13:45/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/19/08 13:45/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	06/30/08 09:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	2.01	%				1	A1030 E	08/20/08 00:00/lkl
Anions	6.13	meq/L				1	A1030 E	08/20/08 00:00/lkl
Cations	6.39	meq/L				1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	412	mg/L				1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	08/20/08 00:00/lkl

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

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080625A-ALK-SEL-W	
Sample ID: LCS1_080625A	Laboratory Control Sample				Run: PH_COND1-R_080625A			06/25/08 09:31	
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080625A	Method Blank				Run: PH_COND1-R_080625A			06/25/08 09:34	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08060319-002DMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 10:59	
Alkalinity, Total as CaCO3	392	mg/L	5.0	98	80	120			
Sample ID: R08060319-002DMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 11:03	
Alkalinity, Total as CaCO3	390	mg/L	5.0	96	80	120	0.5	10	
Method: A2510 B								Batch: 080619_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:11	
Conductivity @ 25 C	1420	umhos/cm	5.0	100	90	110			
Sample ID: LCS1-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:13	
Conductivity @ 25 C	148	umhos/cm	5.0	99	90	110			
Sample ID: LCS2-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619B			06/19/08 14:14	
Conductivity @ 25 C	5020	umhos/cm	5.0	100	90	110			
Sample ID: MBLK-1_080619	Method Blank				Run: PH_COND2-R_080619B			06/19/08 14:53	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 080618A-SLDS-TDS-W	
Sample ID: LCS1_080618A	Laboratory Control Sample				Run: BAL-4-R_080618B			06/18/08 15:17	
Solids, Total Dissolved TDS @ 180 C	210	mg/L	5.0	106	90	110			
Sample ID: MBLK1_080618A	Method Blank				Run: BAL-4-R_080618B			06/18/08 15:18	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060315-001CMS	Sample Matrix Spike				Run: BAL-4-R_080618B			06/18/08 15:37	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	101	80	120			
Sample ID: R08060315-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080618B			06/18/08 15:37	
Solids, Total Dissolved TDS @ 180 C	3000	mg/L	5.0	111	80	120	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080618A-SLDS-TSS-W	
Sample ID: LCS1_080618A	Laboratory Control Sample				Run: BAL-4-R_080618A			06/18/08 14:26	
Solids, Total Suspended TSS @ 105 C	170	mg/L	5.0	86	85	115			
Sample ID: MBLK1_080618A	Method Blank				Run: BAL-4-R_080618A			06/18/08 14:27	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Method: A3114 B								Batch: C_SE3114-080719A	
Sample ID: MBLK	Method Blank				Run: SUB-C104480			07/19/08 11:18	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104480			07/19/08 11:21	
Selenium-IV	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104480			07/19/08 11:25	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104480			07/19/08 11:27	
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.6	10	
Method: A3114 B								Batch: C_SE3114-080719C	
Sample ID: MBLK	Method Blank				Run: SUB-C104484			07/19/08 14:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104484			07/19/08 14:20	
Selenium	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:24	
Selenium	0.051	mg/L	0.0010	102	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:26	
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080722B	
Sample ID: MBLK	Method Blank				Run: SUB-C104619				07/22/08 10:52
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104619				07/22/08 10:55
Selenium-IV	0.053	mg/L	0.0010	106	90	110			
Sample ID: R08060316-001H	Sample Matrix Spike				Run: SUB-C104619				07/22/08 10:59
Selenium-IV	0.054	mg/L	0.0010	108	85	115			
Sample ID: R08060316-001H	Sample Matrix Spike Duplicate				Run: SUB-C104619				07/22/08 11:02
Selenium-IV	0.053	mg/L	0.0010	107	85	115	1.2	10	
Method: A3114 B								Batch: C_SE3114-080722C	
Sample ID: MBLK	Method Blank				Run: SUB-C104640				07/22/08 14:38
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104640				07/22/08 14:40
Selenium	0.052	mg/L	0.0010	104	90	110			
Sample ID: R08060316-001H	Sample Matrix Spike				Run: SUB-C104640				07/22/08 14:45
Selenium	0.053	mg/L	0.0010	104	85	115			
Sample ID: R08060316-001H	Sample Matrix Spike Duplicate				Run: SUB-C104640				07/22/08 14:47
Selenium	0.052	mg/L	0.0010	102	85	115	1.4	10	
Method: A3500-Cr B								Batch: 080618-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.007	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	94	80	120			
Sample ID: R08060315-004E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.20	mg/L	0.0050	98	80	120			
Sample ID: R08060316-001E	Sample Matrix Spike				Run: SPEC1_080618B				06/18/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Method: A4500-H B								Batch: 080619_2_PH-W	
Sample ID: LCS_pH-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619A				06/19/08 11:37
pH	6.91	s.u.	0.010	101	98.55	101.45			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-06-19_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080619A			06/19/08 10:10	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:12	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:22	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	90	110			S
Sample ID: R08060315-003FMS	Sample Matrix Spike				Run: TECHAA2-R_080619A			06/19/08 12:03	
Nitrogen, Ammonia as N	0.20	mg/L	0.10	80	80	120			
Sample ID: R08060315-003FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080619A			06/19/08 12:04	
Nitrogen, Ammonia as N	0.18	mg/L	0.10	72	80	120	10.0	10	S
Method: A9222 D								Batch: 080618-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080618B			06/18/08 10:55	
Bacteria, Fecal Coliform	ND	CFU/100ml							
Sample ID: R08060316-001D	Sample Duplicate				Run: MEMFILT_080618B			06/18/08 10:55	
Bacteria, Fecal Coliform	ND	CFU/100ml	2.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18911
Sample ID: MB-18911	Method Blank				Run: SUB-C103914				07/08/08 22:15
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	0.03	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	0.0004	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.02	mg/L	0.005						
Zinc	0.004	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.1	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18911	Laboratory Control Sample				Run: SUB-C103914				07/08/08 22:19
Aluminum	2.48	mg/L	0.10	99	85	115			
Barium	0.516	mg/L	0.10	103	85	115			
Boron	0.549	mg/L	0.10	103	85	115			
Chromium	0.516	mg/L	0.050	103	85	115			
Copper	0.517	mg/L	0.010	103	85	115			
Iron	2.70	mg/L	0.030	108	85	115			
Manganese	2.58	mg/L	0.010	103	85	115			
Molybdenum	0.518	mg/L	0.10	104	85	115			
Nickel	0.515	mg/L	0.050	103	85	115			
Vanadium	0.541	mg/L	0.10	103	85	115			
Zinc	0.515	mg/L	0.010	102	85	115			
Calcium	26.6	mg/L	1.0	107	85	115			
Magnesium	27.1	mg/L	1.0	108	85	115			
Potassium	25.6	mg/L	1.0	102	85	115			
Silica	5.55	mg/L	0.10	108	85	115			
Sodium	24.8	mg/L	1.0	99	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike				Run: SUB-C103914				07/08/08 23:08
Aluminum	2.48	mg/L	0.10	99	70	130			
Barium	0.509	mg/L	0.10	100	70	130			
Boron	0.586	mg/L	0.10	102	70	130			
Chromium	0.514	mg/L	0.050	103	70	130			
Copper	0.517	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18911
Sample ID: R08060335-001D	Sample Matrix Spike				Run: SUB-C103914				07/08/08 23:08
Iron	15.9	mg/L	0.030		70	130			A
Manganese	4.23	mg/L	0.010	102	70	130			
Molybdenum	0.506	mg/L	0.10	101	70	130			
Nickel	0.512	mg/L	0.050	102	70	130			
Vanadium	0.522	mg/L	0.10	104	70	130			
Zinc	0.618	mg/L	0.010	102	70	130			
Calcium	389	mg/L	1.0		70	130			A
Magnesium	154	mg/L	1.0		70	130			A
Potassium	41.8	mg/L	1.0	101	70	130			
Silica	10.1	mg/L	0.10	115	70	130			
Sodium	115	mg/L	1.1	113	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate				Run: SUB-C103914				07/08/08 23:12
Aluminum	2.52	mg/L	0.10	101	70	130	1.3	20	
Barium	0.515	mg/L	0.10	101	70	130	1.1	20	
Boron	0.585	mg/L	0.10	102	70	130	0.2	20	
Chromium	0.520	mg/L	0.050	104	70	130	1.2	20	
Copper	0.523	mg/L	0.010	102	70	130	1.3	20	
Iron	16.3	mg/L	0.030		70	130	2.4	20	A
Manganese	4.31	mg/L	0.010	105	70	130	2.0	20	
Molybdenum	0.508	mg/L	0.10	102	70	130	0.4	20	
Nickel	0.510	mg/L	0.050	102	70	130	0.4	20	
Vanadium	0.526	mg/L	0.10	105	70	130	0.7	20	
Zinc	0.624	mg/L	0.010	104	70	130	1.0	20	
Calcium	399	mg/L	1.0		70	130	2.5	20	A
Magnesium	157	mg/L	1.0		70	130	1.8	20	A
Potassium	42.8	mg/L	1.0	105	70	130	2.4	20	
Silica	10.3	mg/L	0.10	119	70	130	2.0	20	
Sodium	117	mg/L	1.1	119	70	130	1.4	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R103815
Sample ID: MB-080707A	Method Blank				Run: SUB-C103815				07/07/08 13:14
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	0.01	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	0.009	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.02	mg/L	0.003						
Zinc	0.002	mg/L	0.002						
Sample ID: LFB-080707A	Laboratory Fortified Blank				Run: SUB-C103815				07/07/08 13:18
Silica	0.39	mg/L	0.10	98	85	125			
Aluminum	0.97	mg/L	0.10	97	85	125			
Barium	1.1	mg/L	0.10	106	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	55	mg/L	0.50	110	85	125			
Chromium	1.1	mg/L	0.050	107	85	125			
Copper	1.1	mg/L	0.010	106	85	125			
Iron	1.1	mg/L	0.030	111	85	125			
Magnesium	54	mg/L	0.50	109	85	125			
Manganese	1.1	mg/L	0.010	105	85	125			
Molybdenum	1.0	mg/L	0.10	105	85	125			
Nickel	1.1	mg/L	0.050	106	85	125			
Potassium	48	mg/L	0.50	95	85	125			
Sodium	52	mg/L	0.77	104	85	125			
Vanadium	1.1	mg/L	0.10	106	85	125			
Zinc	1.1	mg/L	0.010	106	85	125			
Sample ID: C08061394-001CMS2	Sample Matrix Spike				Run: SUB-C103815				07/07/08 18:14
Aluminum	2.11	mg/L	0.10	106	70	130			
Barium	2.05	mg/L	0.10	102	70	130			
Boron	2.15	mg/L	0.10	106	70	130			
Chromium	2.14	mg/L	0.050	106	70	130			
Copper	2.13	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R103815	
Sample ID: C08061394-001CMS2	Sample Matrix Spike				Run: SUB-C103815			07/07/08 18:14	
Iron	3.75	mg/L	0.030	107	70	130			
Manganese	4.53	mg/L	0.010	99	70	130			
Molybdenum	2.10	mg/L	0.10	105	70	130			
Nickel	2.11	mg/L	0.050	105	70	130			
Vanadium	2.22	mg/L	0.10	108	70	130			
Zinc	2.16	mg/L	0.010	107	70	130			
Calcium	483	mg/L	1.0	90	70	130			
Magnesium	247	mg/L	1.0	106	70	130			
Potassium	108	mg/L	1.0	92	70	130			
Silica	5.99	mg/L	0.10		70	130			A
Sodium	191	mg/L	1.5	102	70	130			
Sample ID: C08061394-001CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C103815			07/07/08 18:18	
Aluminum	2.23	mg/L	0.10	111	70	130	5.4	20	
Barium	2.05	mg/L	0.10	102	70	130	0.1	20	
Boron	2.18	mg/L	0.10	107	70	130	1.4	20	
Chromium	2.12	mg/L	0.050	106	70	130	0.8	20	
Copper	2.12	mg/L	0.010	106	70	130	0.7	20	
Iron	3.72	mg/L	0.030	106	70	130	0.8	20	
Manganese	4.58	mg/L	0.010	101	70	130	0.9	20	
Molybdenum	2.10	mg/L	0.10	105	70	130	0.0	20	
Nickel	2.11	mg/L	0.050	106	70	130	0.1	20	
Vanadium	2.14	mg/L	0.10	104	70	130	3.7	20	
Zinc	2.15	mg/L	0.010	107	70	130	0.4	20	
Calcium	497	mg/L	1.0	104	70	130	2.7	20	
Magnesium	249	mg/L	1.0	108	70	130	0.7	20	
Potassium	108	mg/L	1.0	92	70	130	0.2	20	
Silica	6.06	mg/L	0.10		70	130	1.2	20	A
Sodium	194	mg/L	1.5	105	70	130	1.4	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18911
Sample ID: MB-18911	Method Blank				Run: SUB-C104345				07/17/08 06:17
Arsenic	0.001	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	9E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18911	Laboratory Control Sample				Run: SUB-C104345				07/17/08 06:24
Arsenic	0.523	mg/L	0.0010	104	85	115			
Cadmium	0.251	mg/L	0.010	101	85	115			
Lead	0.499	mg/L	0.050	100	85	115			
Silver	0.0426	mg/L	0.010	85	85	115			
Thorium 232	0.518	mg/L	0.0010	104	85	115			
Uranium	0.521	mg/L	0.00032	104	85	115			
Sample ID: R08060335-001D	Sample Matrix Spike				Run: SUB-C104345				07/17/08 08:20
Arsenic	5.26	mg/L	0.0010	105	70	130			
Cadmium	2.45	mg/L	0.010	98	70	130			
Lead	5.26	mg/L	0.050	105	70	130			
Silver	0.439	mg/L	0.010	88	70	130			
Thorium 232	6.11	mg/L	0.0010	122	70	130			
Uranium	6.14	mg/L	0.00032	123	70	130			
Sample ID: R08060335-001D	Sample Matrix Spike Duplicate				Run: SUB-C104345				07/17/08 08:25
Arsenic	5.12	mg/L	0.0010	102	70	130	2.8	20	
Cadmium	2.44	mg/L	0.010	98	70	130	0.2	20	
Lead	5.37	mg/L	0.050	107	70	130	2.1	20	
Silver	0.442	mg/L	0.010	88	70	130	0.6	20	
Thorium 232	6.22	mg/L	0.0010	124	70	130	1.8	20	
Uranium	6.31	mg/L	0.00032	126	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104438	
Sample ID: LRB	Method Blank				Run: SUB-C104438			07/17/08 11:20	
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	4E-05	mg/L	3E-05						
Thorium 232	0.0002	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104438			07/17/08 11:26	
Arsenic	0.0520	mg/L	0.0010	104	85	115			
Cadmium	0.0515	mg/L	0.0010	103	85	115			
Lead	0.0515	mg/L	0.0010	103	85	115			
Mercury	0.00546	mg/L	0.0010	109	85	115			
Silver	0.0201	mg/L	0.0010	100	85	115			
Thorium 232	0.0506	mg/L	0.0010	101	85	115			
Uranium	0.0509	mg/L	0.00030	102	85	115			
Sample ID: C08060995-004AMS4	Post Digestion Spike				Run: SUB-C104438			07/17/08 16:47	
Arsenic	0.0487	mg/L	0.0010	95	70	130			
Cadmium	0.0441	mg/L	0.010	88	70	130			
Lead	0.0482	mg/L	0.050	96	70	130			
Mercury	0.00512	mg/L	0.0010	102	70	130			
Silver	0.0147	mg/L	0.010	74	70	130			
Thorium 232	0.0507	mg/L	0.0010	101	70	130			
Uranium	0.0584	mg/L	0.00030	101	70	130			
Sample ID: C08060995-004AMSD4	Post Digestion Spike Duplicate				Run: SUB-C104438			07/17/08 16:54	
Arsenic	0.0505	mg/L	0.0010	99	70	130	3.5	20	
Cadmium	0.0441	mg/L	0.010	88	70	130	0.1	20	
Lead	0.0484	mg/L	0.050	97	70	130	0.0	20	
Mercury	0.00516	mg/L	0.0010	103	70	130	0.8	20	
Silver	0.0148	mg/L	0.010	74	70	130	0.7	20	
Thorium 232	0.0514	mg/L	0.0010	103	70	130	1.3	20	
Uranium	0.0586	mg/L	0.00030	102	70	130	0.4	20	
Sample ID: C08061333-001CMS4	Post Digestion Spike				Run: SUB-C104438			07/17/08 20:17	
Arsenic	0.0486	mg/L	0.0010	96	70	130			
Cadmium	0.0455	mg/L	0.010	91	70	130			
Lead	0.0481	mg/L	0.050	95	70	130			
Mercury	0.00500	mg/L	0.0010	100	70	130			
Silver	0.0110	mg/L	0.010	55	70	130			S

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104438	
Sample ID: C08061333-001CMS4	Post Digestion Spike				Run: SUB-C104438			07/17/08 20:17	
Thorium 232	0.0492	mg/L	0.0010	98	70	130			
Uranium	0.0537	mg/L	0.00030	97	70	130			
Sample ID: C08061333-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C104438			07/17/08 20:24	
Arsenic	0.0482	mg/L	0.0010	95	70	130	0.9	20	
Cadmium	0.0459	mg/L	0.010	92	70	130	0.9	20	
Lead	0.0479	mg/L	0.050	95	70	130	0.0	20	
Mercury	0.00503	mg/L	0.0010	101	70	130	0.6	20	
Silver	0.0128	mg/L	0.010	64	70	130	16	20	S
Thorium 232	0.0491	mg/L	0.0010	97	70	130	0.1	20	
Uranium	0.0536	mg/L	0.00030	97	70	130	0.2	20	
Method: E245.1								Batch: C_B_33204	
Sample ID: MB-33204	Method Blank				Run: SUB-C103539			06/30/08 07:09	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33204	Laboratory Fortified Blank				Run: SUB-C103539			06/30/08 07:12	
Mercury	0.0017	mg/L	0.0010	86	85	115			
Sample ID: B08062269-001DMS	Sample Matrix Spike				Run: SUB-C103539			06/30/08 08:31	
Mercury	0.0021	mg/L	0.0010	103	70	130			
Sample ID: B08062269-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C103539			06/30/08 08:33	
Mercury	0.0020	mg/L	0.0010	99	70	130	4.0	30	
Method: E245.1								Analytical Run: SUB-C103539	
Sample ID: QCS	Initial Calibration Verification Standard							06/30/08 06:57	
Mercury	0.0019	mg/L	0.0010	97	90	110			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35577
Sample ID: LFB0806190922-3	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:04
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:20
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060316-001CMS	Sample Matrix Spike				Run: DIONEX_080619A				06/19/08 21:10
Chloride	237	mg/L	5.4	86	80	120			
Fluoride	92.5	mg/L	0.56	83	80	120			
Nitrogen, Nitrate as N	116	mg/L	1.3	93	80	120			
Sulfate	910	mg/L	3.4	82	80	120			
Sample ID: R08060316-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080619A				06/19/08 21:26
Chloride	234	mg/L	5.4	85	80	120	1.3	10	
Fluoride	89.7	mg/L	0.56	81	80	120	3.1	10	
Nitrogen, Nitrate as N	112	mg/L	1.3	90	80	120	3.3	10	
Sulfate	891	mg/L	3.4	80	80	120	2.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0481	
Sample ID: MB-GrAB-0481	Method Blank				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	-1	pCi/L							U
Gross Beta	-6	pCi/L							U
Sample ID: UNAT-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	140	pCi/L		103	70	130			
Sample ID: Cs137-GrAB-0481	Laboratory Control Sample				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	90	pCi/L		103	70	130			
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	145	pCi/L		105	70	130			
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Alpha	127	pCi/L		92	70	130	13	18.1	
Sample ID: C08070009-010DMS	Sample Matrix Spike				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	88.7	pCi/L		87	70	130			
Sample ID: C08070009-010DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104629			07/21/08 10:42	
Gross Beta	98.5	pCi/L		97	70	130	11	16.1	
Method: E901.1								Batch: C_R103216	
Sample ID: LCS-R103216	Laboratory Control Sample				Run: SUB-C103216			06/20/08 16:37	
Cesium 137	457000	pCi/Filter	20	106	70	130			
Cobalt 60	325000	pCi/Filter	20	102	70	130			
Sample ID: MB-R103216	Method Blank				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20						U
Sample ID: C08060794-001ADUP	Sample Duplicate				Run: SUB-C103216			06/20/08 16:37	
Gross Gamma		pCi/Filter	20				0.0	30	U

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_18917
Sample ID: C08060995-004KMS	Sample Matrix Spike				Run: SUB-C104309				07/15/08 14:46
Radium 226	160	pCi/L		100	70	130			
Sample ID: C08060995-004KMSD	Sample Matrix Spike Duplicate				Run: SUB-C104309				07/15/08 14:46
Radium 226	170	pCi/L		110	70	130	9.7	24.6	
Sample ID: LCS-18917	Laboratory Control Sample				Run: SUB-C104309				07/15/08 14:46
Radium 226	16	pCi/L		112	70	130			
Sample ID: MB-18917	Method Blank				Run: SUB-C104309				07/15/08 16:22
Radium 226	-2	pCi/L							U
Method: E903.0									Batch: C_RA226-2918
Sample ID: MB-RA226-2918	Method Blank				Run: SUB-C104311				07/16/08 07:03
Radium 226	0.1	pCi/L							
Sample ID: C08060981-001AMS	Sample Matrix Spike				Run: SUB-C104311				07/16/08 07:03
Radium 226	19	pCi/L		109	70	130			
Sample ID: C08060981-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104311				07/16/08 07:03
Radium 226	19	pCi/L		108	70	130	0.6	21	
Sample ID: LCS-RA226-2918	Laboratory Control Sample				Run: SUB-C104311				07/16/08 08:37
Radium 226	8.2	pCi/L		102	70	130			
Method: E907.0									Batch: C_18917
Sample ID: R08060335-001I	Sample Matrix Spike				Run: SUB-C104217				07/13/08 18:14
Thorium 230	19.7	pCi/L	0.20	85	70	130			
Sample ID: R08060335-001I	Sample Matrix Spike Duplicate				Run: SUB-C104217				07/13/08 18:14
Thorium 230	21.7	pCi/L	0.20	96	70	130	9.5	30	
Sample ID: LCS-18917	Laboratory Control Sample				Run: SUB-C104217				07/13/08 18:14
Thorium 230	51.9	pCi/L	0.20	108	70	130			
Sample ID: MB-18917	Method Blank				Run: SUB-C104217				07/13/08 18:14
Thorium 230	0.7	pCi/L							

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: C_RA-TH-ISO-0565	
Sample ID: LCS-RA-TH-ISO-0565	Laboratory Control Sample				Run: SUB-C104883			07/17/08 08:51	
Thorium 230	5.53	pCi/L	0.20	90	70	130			
Sample ID: R08060316-001J	Sample Matrix Spike				Run: SUB-C104883			07/17/08 08:59	
Thorium 230	14.2	pCi/L	0.20	87	70	130			
Sample ID: R08060316-001J	Sample Matrix Spike Duplicate				Run: SUB-C104883			07/17/08 08:59	
Thorium 230	14.4	pCi/L	0.20	88	70	130	1.7	30	
Sample ID: MB-RA-TH-ISO-0565	Method Blank				Run: SUB-C104883			07/17/08 09:02	
Thorium 230	0.01	pCi/L							U
Method: E909.0M								Batch: C_18917	
Sample ID: C08060943-002FMS	Sample Matrix Spike				Run: SUB-C105224			07/14/08 09:30	
Lead 210	1300	pCi/L		111	70	130			
Sample ID: C08060943-002FMSD	Sample Matrix Spike Duplicate				Run: SUB-C105224			07/14/08 09:30	
Lead 210	830	pCi/L		71	70	130	44	30	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-R105224	Method Blank				Run: SUB-C105224			07/14/08 09:30	
Lead 210	5	pCi/L							U
Sample ID: LCS-R105224	Laboratory Control Sample				Run: SUB-C105224			07/14/08 09:30	
Lead 210	120	pCi/L		95	70	130			
Method: E909.0M								Batch: C_R105675	
Sample ID: C08070067-003AMS	Sample Matrix Spike				Run: SUB-C105675			07/18/08 08:20	
Lead 210	640	pCi/L		110	70	130			
Sample ID: C08070067-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105675			07/18/08 08:20	
Lead 210	540	pCi/L		92	70	130	18	30	
Sample ID: MB-R105675	Method Blank				Run: SUB-C105675			07/18/08 08:20	
Lead 210	-2	pCi/L							U
Sample ID: LCS-R105675	Laboratory Control Sample				Run: SUB-C105675			07/18/08 08:20	
Lead 210	110	pCi/L		94	70	130			

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/20/08
Work Order: R08060316

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_18917
Sample ID: C08060943-001FMS	Sample Matrix Spike				Run: SUB-C106132				08/18/08 17:00
Polonium 210	29	pCi/L	1.0	128	70	130			
Sample ID: C08060943-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C106132				08/18/08 17:00
Polonium 210	22	pCi/L	1.0	99	70	130	25	30	
Sample ID: MB-R106132	Method Blank				Run: SUB-C106132				08/18/08 17:00
Polonium 210	-0.09	pCi/L							U
Sample ID: LCS-R106132	Laboratory Control Sample				Run: SUB-C106132				08/18/08 17:00
Polonium 210	84	pCi/L	1.0	97	70	130			
Method: RMO-3008									Batch: C_R104442
Sample ID: C08061021-004EMS	Sample Matrix Spike				Run: SUB-C104442				07/09/08 18:40
Polonium 210	65	pCi/L	1.0	73	70	130			
Sample ID: C08061021-004EMSD	Sample Matrix Spike Duplicate				Run: SUB-C104442				07/09/08 18:40
Polonium 210	75	pCi/L	1.0	85	70	130	14	30	
Sample ID: LCS-R104442	Laboratory Control Sample				Run: SUB-C104442				07/09/08 18:40
Polonium 210	44	pCi/L	1.0	103	70	130			
Sample ID: MB-R104442	Method Blank				Run: SUB-C104442				07/09/08 18:40
Polonium 210	-0.3	pCi/L							U

Qualifiers:

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

Chain of Custody and Analytical Request Record

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc: Powertech Dewey Burdock	Sample Origin State: SD	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax: cory-foreman@respec.com	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED

	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)	As per Quote + Pb-210 + Po-210								SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Comments
1	Dew Burd Sub 04	6/17/08	14:00	W												Set 12
2																
3																
4																
5																
6																
7																
8																
9																
10																

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: All SW 5 day turnaround

Shipped by:

Cooler ID(s):

Receipt Temp 4.4 °C

On Ice: (Yes) No

Custody Seal Y N

Intact Y N

Signature Match Y N

LABORATORY USE ONLY: L08060316-001

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	6/18/08 0:18		Matt Stoltenberg	6-18-08 0630	
Relinquished by (print): Matt Stoltenberg	Date/Time: 6/19/08 08:50	Signature:	Received by (print): Steve Troiland	Date/Time: 6-18-08 8:50	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060347 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 4 samples from RESPEC Inc on 6/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060347-001	DewBurd SUB01	06/18/08 12:00	06/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060347-002	DewBurd SUB02	06/18/08 13:05	06/19/08	Aqueous	Same As Above
R08060347-003	DewBurd SUB02	06/18/08 13:10	06/19/08	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

R08060347-004	DewBurd SUB03	06/18/08 14:15	06/19/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: _____
Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *21-Aug-08*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060347

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08061205
ANALYTICAL COMMENTS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.
End of comments imported for SUBBED Workorder: C08061205

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-001
Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
Collection Date: 06/18/08 12:00
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	20		20	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	84	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Bicarbonate as HCO3	102	mg/L		5		1	A2320 B	06/25/08 11:12/mb
Calcium	21.1	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Chloride	5	mg/L		1		5	E300.0	06/20/08 01:33/jmh
Fluoride	0.6	mg/L		0.1		5	E300.0	06/20/08 01:33/jmh
Magnesium	4.4	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Nitrogen, Ammonia as N	1.2	mg/L		0.1		2	A4500-NH3 G	06/19/08 12:44/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		5	E300.0	06/20/08 01:33/jmh
Potassium	8	mg/L		1		2	E200.7	07/10/08 16:27/eli-c
Silica	7.9	mg/L		0.5		2	E200.7	07/10/08 16:27/eli-c
Sodium	20	mg/L	D	2		2	E200.7	07/10/08 16:27/eli-c
Sulfate	33	mg/L		1		5	E300.0	06/20/08 01:33/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	250	umhos/cm		5.0		1	A2510 B	06/23/08 10:48/tb
pH	7.07	s.u.		0.01		1	A4500-H B	06/19/08 12:19/tb
Sodium Adsorption Ratio (SAR)	1.0	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	393	mg/L		5		1	D3977	06/30/08 15:47/mb
Solids, Total Dissolved TDS @ 180 C	990	mg/L		5		1	A2540 C	06/20/08 08:27/mb
Solids, Total Suspended TSS @ 105 C	280	mg/L		5		1	A2540 D	06/19/08 15:38/mb
TDS result confirmed. Very fine suspended sediment.								
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 12:47/eli-c
Iron	0.31	mg/L		0.03		2	E200.7	07/10/08 16:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Manganese	0.24	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 12:47/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:27/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-001
Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
Collection Date: 06/18/08 12:00
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 12:47/eli-c
Uranium	0.0003	mg/L		0.0003		1	E200.8	07/23/08 12:47/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/23/08 12:47/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/10/08 16:27/eli-c
METALS - SUSPENDED								
Thorium 232	0.004	mg/L		0.001		1	E200.8	07/28/08 21:58/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	07/28/08 21:58/eli-c
METALS - TOTAL								
Aluminum	52.8	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Arsenic	0.014	mg/L		0.001		1	E200.8	07/18/08 13:19/eli-c
Barium	0.2	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Chromium	0.06	mg/L		0.05		2	E200.7	07/07/08 22:41/eli-c
Chromium, Hexavalent	ND	mg/L	D	0.05		10	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	0.06	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	0.03	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Iron	44.1	mg/L		0.03		2	E200.7	07/07/08 22:41/eli-c
Lead	0.026	mg/L		0.001		1	E200.8	07/18/08 13:19/eli-c
Manganese	0.77	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 22:41/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Thorium 232	0.012	mg/L		0.005		1	E200.8	07/18/08 13:19/eli-c
Uranium	0.0020	mg/L		0.0003		1	E200.8	07/18/08 13:19/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 22:41/eli-c
Zinc	0.13	mg/L		0.01		2	E200.7	07/07/08 22:41/eli-c
Calcium	30.2	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Magnesium	15.1	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Potassium	20.9	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Silica	88.1	mg/L		0.5		2	E200.7	07/07/08 22:41/eli-c
Sodium	21	mg/L	D	1		2	E200.7	07/07/08 22:41/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:43/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-001
Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
Collection Date: 06/18/08 12:00
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 14:57/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.7	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	0.5	pCi/L				1	E903.0	07/21/08 20:20/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/21/08 20:20/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/21/08 20:20/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-2.1	pCi/L	U			1	E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.78	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	07/10/08 13:48/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/10/08 13:48/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.2	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Alpha MDC	1.7	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta	20.2	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta precision (±)	2.0	pCi/L				1	E900.0	07/26/08 03:40/eli-c
Gross Beta MDC	2.7	pCi/L				1	E900.0	07/26/08 03:40/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-001
Client Sample ID: DewBurd SUB01

Report Date: 08/21/08
Collection Date: 06/18/08 12:00
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/26/08 18:46/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-1.4	pCi/L	U			1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	1.4	pCi/L		1.0		1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.88	pCi/L				1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.3	pCi/L	U			1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	07/02/08 09:55/eli-b
DATA QUALITY								
A/C Balance (± 5)	1.86	%				1	A1030 E	08/20/08 00:00/lkl
Anions	2.54	meq/L				1	A1030 E	08/20/08 00:00/lkl
Cations	2.63	meq/L				1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	164	mg/L				1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	6.05					1	A1030 E	08/20/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-002
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:05
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	96	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Bicarbonate as HCO3	117	mg/L		5		1	A2320 B	06/25/08 11:15/mb
Calcium	609	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Chloride	19	mg/L		1		5	E300.0	06/21/08 01:27/jmh
Fluoride	0.9	mg/L		0.1		1	E300.0	06/20/08 02:05/jmh
Magnesium	204	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:26/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/20/08 02:05/jmh
Potassium	20	mg/L		1		2	E200.7	07/10/08 16:43/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/10/08 16:43/eli-c
Sodium	172	mg/L	D	2		2	E200.7	07/10/08 16:43/eli-c
Sulfate	2310	mg/L	D	3		50	E300.0	06/20/08 01:49/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3540	umhos/cm		5.0		1	A2510 B	06/23/08 10:50/tb
pH	8.08	s.u.		0.01		1	A4500-H B	06/23/08 10:16/tb
Sodium Adsorption Ratio (SAR)	1.5	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	06/20/08 08:28/mb
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	06/19/08 15:38/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		1	E200.8	07/23/08 12:54/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 13:03/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/23/08 12:54/eli-c
Iron	0.05	mg/L		0.03		2	E200.7	07/10/08 16:43/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 12:54/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:43/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-002
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:05
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 13:03/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 12:54/eli-c
Uranium	0.175	mg/L		0.0003		1	E200.8	07/23/08 12:54/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/23/08 12:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/10/08 16:43/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/28/08 22:14/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/28/08 22:14/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/18/08 13:26/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/07/08 22:50/eli-c
Chromium, Hexavalent	0.005	mg/L		0.005		1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Iron	0.18	mg/L		0.03		2	E200.7	07/07/08 22:50/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/18/08 13:26/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 22:50/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/18/08 13:26/eli-c
Uranium	0.190	mg/L		0.0003		1	E200.8	07/18/08 13:26/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/07/08 22:50/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 22:50/eli-c
Calcium	602	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Magnesium	204	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Potassium	21.1	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/07/08 22:50/eli-c
Sodium	180	mg/L	D	1		2	E200.7	07/07/08 22:50/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:45/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:46/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-002
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:05
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.003	mg/L		0.001		1	A3114 B	07/22/08 15:04/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:22/eli-c
Selenium-VI	0.003	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-1.0	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	0.7	pCi/L				1	E903.0	07/21/08 23:21/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/21/08 23:21/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/21/08 23:21/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	1.5	pCi/L	U			1	E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.29	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/09/08 19:58/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/09/08 19:58/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	199	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	18.4	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	12.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta	80.1	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	12.2	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta MDC	17.9	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/26/08 18:46/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-002
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:05
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	0.5	pCi/L	U			1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.49	pCi/L				1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	07/02/08 09:57/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.36	%				1	A1030 E	08/20/08 00:00/lkl
Anions	50.6	meq/L				1	A1030 E	08/20/08 00:00/lkl
Cations	55.2	meq/L				1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	3390	mg/L				1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.12					1	A1030 E	08/20/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-003
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:10
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	98	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Bicarbonate as HCO3	119	mg/L		5		1	A2320 B	06/25/08 11:17/mb
Calcium	620	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Chloride	19	mg/L		1		5	E300.0	06/21/08 01:44/jmh
Fluoride	0.8	mg/L		0.1		1	E300.0	06/20/08 02:38/jmh
Magnesium	211	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:30/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/20/08 02:38/jmh
Potassium	20	mg/L		1		2	E200.7	07/10/08 16:47/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/10/08 16:47/eli-c
Sodium	177	mg/L	D	2		2	E200.7	07/10/08 16:47/eli-c
Sulfate	2410	mg/L	D	3		50	E300.0	06/20/08 02:22/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	3640	umhos/cm		5.0		1	A2510 B	06/23/08 10:50/tb
pH	8.06	s.u.		0.01		1	A4500-H B	06/23/08 10:17/tb
Sodium Adsorption Ratio (SAR)	1.6	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	ND	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	3800	mg/L		5		1	A2540 C	06/20/08 08:28/mb
Solids, Total Suspended TSS @ 105 C	5	mg/L		5		1	A2540 D	06/19/08 15:39/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/25/08 13:10/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/25/08 13:10/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/25/08 13:10/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	07/10/08 16:47/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 13:01/eli-c
Manganese	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 13:01/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:47/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-003
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:10
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/25/08 13:10/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 13:01/eli-c
Uranium	0.174	mg/L		0.0003		1	E200.8	07/23/08 13:01/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/25/08 13:10/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/10/08 16:47/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/28/08 22:18/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/28/08 22:18/eli-c
METALS - TOTAL								
Aluminum	ND	mg/L		0.1		2	E200.7	07/07/08 22:54/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/18/08 13:32/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/07/08 22:54/eli-c
Boron	0.5	mg/L		0.1		2	E200.7	07/07/08 22:54/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/07/08 22:54/eli-c
Chromium, Hexavalent	0.02	mg/L	B	0.005		1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/07/08 22:54/eli-c
Iron	0.25	mg/L		0.03		2	E200.7	07/07/08 22:54/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/18/08 13:32/eli-c
Manganese	0.01	mg/L		0.01		2	E200.7	07/07/08 22:54/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:54/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/07/08 22:54/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:32/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/18/08 13:32/eli-c
Uranium	0.190	mg/L		0.0003		1	E200.8	07/18/08 13:32/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/07/08 22:54/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/07/08 22:54/eli-c
Calcium	627	mg/L		0.5		2	E200.7	07/07/08 22:54/eli-c
Magnesium	207	mg/L		0.5		2	E200.7	07/07/08 22:54/eli-c
Potassium	21.5	mg/L		0.5		2	E200.7	07/07/08 22:54/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/07/08 22:54/eli-c
Sodium	179	mg/L	D	1		2	E200.7	07/07/08 22:54/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:47/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:48/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
B - The analyte was detected in the method blank.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-003
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:10
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.001	mg/L		0.001		1	A3114 B	07/22/08 15:06/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:24/eli-c
Selenium-VI	0.001	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	5.0	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	0.6	pCi/L				1	E903.0	07/22/08 02:22/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/22/08 02:22/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/22/08 02:22/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.5	pCi/L	U			1	E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.5	pCi/L	U			1	E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/09/08 19:58/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/09/08 19:58/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	201	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	18.2	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	12.5	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta	88.7	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	9.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta MDC	13.7	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	06/26/08 18:46/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-003
Client Sample ID: DewBurd SUB02

Report Date: 08/21/08
Collection Date: 06/18/08 13:10
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-1.4	pCi/L	U			1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.1	pCi/L	U	1.0		1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.51	pCi/L				1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.4	pCi/L				1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	07/02/08 09:59/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.39	%				1	A1030 E	08/20/08 00:00/lkl
Anions	52.8	meq/L				1	A1030 E	08/20/08 00:00/lkl
Cations	56.5	meq/L				1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	3520	mg/L				1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	08/20/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-004
Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
Collection Date: 06/18/08 14:15
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/19/08 11:58/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:19/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:19/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:19/mb
Calcium	130	mg/L		0.5		2	E200.7	07/10/08 16:51/eli-c
Chloride	2	mg/L		1		1	E300.0	06/20/08 04:17/jmh
Fluoride	0.4	mg/L		0.1		1	E300.0	06/20/08 04:17/jmh
Magnesium	47.4	mg/L		0.5		2	E200.7	07/10/08 16:51/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	06/19/08 12:33/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/20/08 04:17/jmh
Potassium	16	mg/L		1		2	E200.7	07/10/08 16:51/eli-c
Silica	2.1	mg/L		0.5		2	E200.7	07/10/08 16:51/eli-c
Sodium	4	mg/L	D	2		2	E200.7	07/10/08 16:51/eli-c
Sulfate	510	mg/L	D	3		50	E300.0	06/20/08 03:28/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	975	umhos/cm		5.0		1	A2510 B	06/23/08 10:51/tb
pH	4.40	s.u.		0.01		1	A4500-H B	06/23/08 10:17/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	08/20/08 15:29/ADM
Solids, Suspended Sediment SSC @ 105 C	37	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	820	mg/L		5		1	A2540 C	06/20/08 08:29/mb
Solids, Total Suspended TSS @ 105 C	26	mg/L		5		1	A2540 D	06/19/08 15:39/mb
METALS - DISSOLVED								
Aluminum	0.6	mg/L		0.1		2	E200.7	07/10/08 16:51/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/25/08 13:17/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/10/08 16:51/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/10/08 16:51/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/23/08 13:07/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/10/08 16:51/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/25/08 13:17/eli-c
Iron	0.24	mg/L		0.03		2	E200.7	07/10/08 16:51/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/23/08 13:07/eli-c
Manganese	8.44	mg/L		0.01		2	E200.7	07/10/08 16:51/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/23/08 13:07/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/10/08 16:51/eli-c
Nickel	0.17	mg/L		0.01		2	E200.7	07/10/08 16:51/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-004
Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
Collection Date: 06/18/08 14:15
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/23/08 13:07/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/23/08 13:07/eli-c
Uranium	0.0023	mg/L		0.0003		1	E200.8	07/23/08 13:07/eli-c
Vanadium	ND	mg/L		0.1		1	E200.8	07/25/08 13:17/eli-c
Zinc	0.10	mg/L		0.01		2	E200.7	07/10/08 16:51/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/28/08 22:22/eli-c
Uranium	0.0004	mg/L		0.0003		1	E200.8	07/28/08 22:22/eli-c
METALS - TOTAL								
Aluminum	1.2	mg/L		0.1		2	E200.7	07/07/08 22:58/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/18/08 13:39/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/07/08 22:58/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/07/08 22:58/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/18/08 13:39/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/07/08 22:58/eli-c
Chromium, Hexavalent	0.006	mg/L	B	0.005		1	A3500-Cr B	06/19/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/20/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/07/08 22:58/eli-c
Iron	1.10	mg/L		0.03		2	E200.7	07/07/08 22:58/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/18/08 13:39/eli-c
Manganese	8.43	mg/L		0.01		2	E200.7	07/07/08 22:58/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/07/08 22:58/eli-c
Nickel	0.17	mg/L		0.05		2	E200.7	07/07/08 22:58/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/18/08 13:39/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/18/08 13:39/eli-c
Uranium	0.0031	mg/L		0.0003		1	E200.8	07/18/08 13:39/eli-c
Vanadium	0.2	mg/L		0.1		2	E200.7	07/07/08 22:58/eli-c
Zinc	0.08	mg/L		0.01		2	E200.7	07/07/08 22:58/eli-c
Calcium	132	mg/L		0.5		2	E200.7	07/07/08 22:58/eli-c
Magnesium	48.6	mg/L		0.5		2	E200.7	07/07/08 22:58/eli-c
Potassium	17.9	mg/L		0.5		2	E200.7	07/07/08 22:58/eli-c
Silica	3.8	mg/L		0.5		2	E200.7	07/07/08 22:58/eli-c
Sodium	5	mg/L	D	1		2	E200.7	07/07/08 22:58/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 14:50/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 11:50/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
D - RL increased due to sample matrix interference.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
B - The analyte was detected in the method blank.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-004
Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
Collection Date: 06/18/08 14:15
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:37/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:08/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:26/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-3.0	pCi/L	U			1	E909.0M	07/18/08 08:20/eli-c
Lead 210 MDC	8.4	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Lead 210 precision (±)	4.9	pCi/L				1	E909.0M	07/18/08 08:20/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/09/08 18:40/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	07/09/08 18:40/eli-c
Radium 226	2.6	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Radium 226 MDC	0.1	pCi/L				1	E903.0	07/22/08 05:23/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/18/08 20:05/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/18/08 20:05/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.8	pCi/L	U			1	E909.0M	07/15/08 07:15/eli-c
Lead 210 precision (±)	8.7	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Lead 210 MDC	14.6	pCi/L				1	E909.0M	07/15/08 07:15/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.09	pCi/L	U			1	E903.0	07/16/08 13:32/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	07/16/08 13:32/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	07/10/08 12:56/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	07/10/08 12:56/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	19.9	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha precision (±)	2.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Alpha MDC	2.6	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta	21.8	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Beta MDC	3.0	pCi/L				1	E900.0	07/26/08 03:41/eli-c
Gross Gamma	1080	pCi/L		20.0		1	E901.1	06/26/08 18:46/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060347-004
Client Sample ID: DewBurd SUB03

Report Date: 08/21/08
Collection Date: 06/18/08 14:15
Date Received: 06/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	153	pCi/L				1	E901.1	06/26/08 18:46/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-3.8	pCi/L	U			1	E909.0M	08/20/08 12:33/eli-c
Lead 210 precision (±)	10	pCi/L				1	E909.0M	08/20/08 12:33/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	08/20/08 12:33/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	08/20/08 12:33/eli-c
Radium 226	2.5	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Radium 226 precision (±)	0.5	pCi/L				1	E903.0	08/20/08 12:33/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	08/20/08 12:33/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	08/20/08 12:33/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.001		1	E245.1	07/02/08 10:02/eli-b
DATA QUALITY								
A/C Balance (± 5)	4.34	%				1	A1030 E	08/20/08 00:00/lkl
Anions	10.7	meq/L				1	A1030 E	08/20/08 00:00/lkl
Cations	11.7	meq/L				1	A1030 E	08/20/08 00:00/lkl
Solids, Total Dissolved Calculated	716	mg/L				1	A1030 E	08/20/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.15					1	A1030 E	08/20/08 00:00/lkl

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

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080625A-ALK-SEL-W	
Sample ID: LCS1_080625A	Laboratory Control Sample				Run: PH_COND1-R_080625A			06/25/08 09:31	
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080625A	Method Blank				Run: PH_COND1-R_080625A			06/25/08 09:34	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08060319-002DMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 10:59	
Alkalinity, Total as CaCO3	392	mg/L	5.0	98	80	120			
Sample ID: R08060319-002DMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 11:03	
Alkalinity, Total as CaCO3	390	mg/L	5.0	96	80	120	0.5	10	
Sample ID: R08060403-005CMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 12:14	
Alkalinity, Total as CaCO3	112	mg/L	5.0	100	80	120			
Sample ID: R08060403-005CMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 12:16	
Alkalinity, Total as CaCO3	114	mg/L	5.0	102	80	120	1.8	10	
Method: A2510 B								Batch: 080623_1_COND-PROBE-W	
Sample ID: LCS1-1_080623	Laboratory Control Sample				Run: PH_COND2-R_080623B			06/23/08 10:43	
Conductivity @ 25 C	151	umhos/cm	5.0	101	90	110			
Sample ID: LCS2-1_080623	Laboratory Control Sample				Run: PH_COND2-R_080623B			06/23/08 10:44	
Conductivity @ 25 C	4950	umhos/cm	5.0	99	90	110			
Sample ID: LCS_COND-1_080623	Laboratory Control Sample				Run: PH_COND2-R_080623B			06/23/08 10:46	
Conductivity @ 25 C	1370	umhos/cm	5.0	97	90	110			
Sample ID: R08060347-004CDUP	Sample Duplicate				Run: PH_COND2-R_080623B			06/23/08 10:57	
Conductivity @ 25 C	969	umhos/cm	5.0				0.6	10	
Sample ID: MBLK-1_080623	Method Blank				Run: PH_COND2-R_080623B			06/23/08 10:54	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 080620A-SLDS-TDS-W	
Sample ID: R08060331-003BMS	Sample Matrix Spike				Run: BAL-4-R_080618B			06/20/08 08:25	
Solids, Total Dissolved TDS @ 180 C	1400	mg/L	5.0	112	80	120			
Sample ID: R08060331-003BMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080618B			06/20/08 08:25	
Solids, Total Dissolved TDS @ 180 C	1400	mg/L	5.0	110	80	120	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080619A-SLDS-TSS-W	
Sample ID: R08060347-004CDUP	Sample Duplicate				Run: BAL-4-R_080618A			06/19/08 15:40	
Solids, Total Suspended TSS @ 105 C	20	mg/L	5.0				26	20	R
Method: A3114 B								Batch: C_SE3114-080719A	
Sample ID: MBLK	Method Blank				Run: SUB-C104480			07/19/08 11:18	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104480			07/19/08 11:21	
Selenium-IV	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104480			07/19/08 11:25	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104480			07/19/08 11:27	
Selenium-IV	0.051	mg/L	0.0010	102	85	115	1.6	10	
Sample ID: R08060452-001E	Sample Matrix Spike				Run: SUB-C104480			07/19/08 11:54	
Selenium-IV	0.046	mg/L	0.0010	92	85	115			
Sample ID: R08060452-001E	Sample Matrix Spike Duplicate				Run: SUB-C104480			07/19/08 11:56	
Selenium-IV	0.047	mg/L	0.0010	94	85	115	2.5	10	
Method: A3114 B								Batch: C_SE3114-080719C	
Sample ID: MBLK	Method Blank				Run: SUB-C104484			07/19/08 14:18	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104484			07/19/08 14:20	
Selenium	0.046	mg/L	0.0010	92	90	110			
Sample ID: C08060993-001AMS	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:24	
Selenium	0.051	mg/L	0.0010	102	85	115			
Sample ID: C08060993-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:26	
Selenium	0.052	mg/L	0.0010	104	85	115	1.8	10	
Sample ID: R08060452-001E	Sample Matrix Spike				Run: SUB-C104484			07/19/08 14:54	
Selenium	0.051	mg/L	0.0010	103	85	115			
Sample ID: R08060452-001E	Sample Matrix Spike Duplicate				Run: SUB-C104484			07/19/08 14:56	
Selenium	0.052	mg/L	0.0010	105	85	115	1.9	10	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080722B	
Sample ID: MBLK	Method Blank				Run: SUB-C104619			07/22/08 10:52	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104619			07/22/08 10:55	
Selenium-IV	0.053	mg/L	0.0010	106	90	110			
Sample ID: C08060993-001HMS	Sample Matrix Spike				Run: SUB-C104619			07/22/08 10:59	
Selenium-IV	0.054	mg/L	0.0010	108	85	115			
Sample ID: C08060993-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104619			07/22/08 11:02	
Selenium-IV	0.053	mg/L	0.0010	107	85	115	1.2	10	
Sample ID: C08061335-001HMS	Sample Matrix Spike				Run: SUB-C104619			07/22/08 11:32	
Selenium-IV	0.055	mg/L	0.0010	110	85	115			
Sample ID: C08061335-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104619			07/22/08 11:34	
Selenium-IV	0.054	mg/L	0.0010	108	85	115	1.5	10	
Method: A3114 B								Batch: C_SE3114-080722C	
Sample ID: MBLK	Method Blank				Run: SUB-C104640			07/22/08 14:38	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104640			07/22/08 14:40	
Selenium	0.052	mg/L	0.0010	104	90	110			
Sample ID: C08060993-001HMS	Sample Matrix Spike				Run: SUB-C104640			07/22/08 14:45	
Selenium	0.053	mg/L	0.0010	104	85	115			
Sample ID: C08060993-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104640			07/22/08 14:47	
Selenium	0.052	mg/L	0.0010	102	85	115	1.4	10	
Sample ID: C08061335-001HMS	Sample Matrix Spike				Run: SUB-C104640			07/22/08 15:12	
Selenium	0.050	mg/L	0.0010	101	85	115			
Sample ID: C08061335-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104640			07/22/08 15:14	
Selenium	0.051	mg/L	0.0010	101	85	115	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080619-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	0.009	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	0.21	mg/L	0.0050	101	80	120			
Sample ID: R08060347-001E	Sample Matrix Spike				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	1.8	mg/L	0.050	92	80	120			
Sample ID: R08060347-002E	Sample Matrix Spike				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	0.20	mg/L	0.0050	96	80	120			
Sample ID: R08060347-003E	Sample Matrix Spike				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	0.22	mg/L	0.0050	101	80	120			
Sample ID: R08060347-004E	Sample Matrix Spike				Run: SPEC1_080619A				06/19/08 00:00
Chromium, Hexavalent	0.17	mg/L	0.0050	82	80	120			
Method: A4500-H B								Batch: 080619_2_PH-W	
Sample ID: LCS_pH-1_080619	Laboratory Control Sample				Run: PH_COND2-R_080619A				06/19/08 11:37
pH	6.91	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060347-001CDUP	Sample Duplicate				Run: PH_COND2-R_080619A				06/19/08 12:21
pH	7.06	s.u.	0.010				0.1	1.25	
Method: A4500-H B								Batch: 080623_1_PH-W	
Sample ID: LCS_pH-1_080623	Laboratory Control Sample				Run: PH_COND2-R_080623A				06/23/08 10:14
pH	6.90	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060364-003ADUP	Sample Duplicate				Run: PH_COND2-R_080623A				06/23/08 10:25
pH	7.28	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-06-19_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080619A			06/19/08 10:10	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:12	
Nitrogen, Ammonia as N	0.23	mg/L	0.10	92	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080619A			06/19/08 10:22	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	90	110			S
Sample ID: R08060347-003FMS	Sample Matrix Spike				Run: TECHAA2-R_080619A			06/19/08 12:31	
Nitrogen, Ammonia as N	0.20	mg/L	0.10	81	80	120			
Sample ID: R08060347-003FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080619A			06/19/08 12:32	
Nitrogen, Ammonia as N	0.22	mg/L	0.10	89	80	120	9.9	10	
Method: A9222 D								Batch: 080619-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080619A			06/19/08 11:58	
Bacteria, Fecal Coliform	ND	CFU/100ml							
Sample ID: R08060347-004D	Sample Duplicate				Run: MEMFILT_080619A			06/19/08 11:58	
Bacteria, Fecal Coliform	2.0	CFU/100ml	2.0				200	10	R

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18951
Sample ID: MB-18951	Method Blank				Run: SUB-C103815				07/07/08 22:33
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	0.03	mg/L	0.005						
Zinc	0.003	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.3	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18951	Laboratory Control Sample				Run: SUB-C103815				07/07/08 22:37
Aluminum	2.47	mg/L	0.10	99	85	115			
Barium	0.502	mg/L	0.10	100	85	115			
Boron	0.512	mg/L	0.10	102	85	115			
Chromium	0.506	mg/L	0.050	101	85	115			
Copper	0.504	mg/L	0.010	101	85	115			
Iron	2.69	mg/L	0.030	108	85	115			
Manganese	2.53	mg/L	0.010	101	85	115			
Molybdenum	0.498	mg/L	0.10	100	85	115			
Nickel	0.506	mg/L	0.050	101	85	115			
Vanadium	0.515	mg/L	0.10	98	85	115			
Zinc	0.499	mg/L	0.010	99	85	115			
Calcium	26.1	mg/L	1.0	104	85	115			
Magnesium	26.3	mg/L	1.0	105	85	115			
Potassium	26.0	mg/L	1.0	104	85	115			
Silica	6.03	mg/L	0.10	115	85	115			
Sodium	25.4	mg/L	1.0	102	85	115			
Sample ID: R08060347-004B	Sample Matrix Spike				Run: SUB-C103815				07/07/08 23:02
Aluminum	4.86	mg/L	0.10	146	70	130			S
Barium	0.543	mg/L	0.10	101	70	130			
Boron	0.605	mg/L	0.10	100	70	130			
Chromium	0.508	mg/L	0.050	102	70	130			
Copper	0.506	mg/L	0.010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18951
Sample ID: R08060347-004B	Sample Matrix Spike				Run: SUB-C103815				07/07/08 23:02
Iron	3.69	mg/L	0.030	104	70	130			
Manganese	10.8	mg/L	0.010	93	70	130			
Molybdenum	0.487	mg/L	0.10	97	70	130			
Nickel	0.680	mg/L	0.050	102	70	130			
Vanadium	0.722	mg/L	0.10	109	70	130			
Zinc	0.574	mg/L	0.010	99	70	130			
Calcium	157	mg/L	1.0		70	130			A
Magnesium	73.4	mg/L	1.0	99	70	130			
Potassium	44.7	mg/L	1.0	107	70	130			
Silica	11.6	mg/L	0.10	156	70	130			S
Sodium	28.8	mg/L	1.1	97	70	130			
Sample ID: R08060347-004B	Sample Matrix Spike Duplicate				Run: SUB-C103815				07/07/08 23:06
Aluminum	4.91	mg/L	0.10	148	70	130	1.0	20	S
Barium	0.555	mg/L	0.10	103	70	130	2.1	20	
Boron	0.618	mg/L	0.10	102	70	130	2.2	20	
Chromium	0.519	mg/L	0.050	104	70	130	2.1	20	
Copper	0.525	mg/L	0.010	105	70	130	3.7	20	
Iron	3.83	mg/L	0.030	109	70	130	3.6	20	
Manganese	10.9	mg/L	0.010	99	70	130	1.3	20	
Molybdenum	0.519	mg/L	0.10	104	70	130	6.4	20	
Nickel	0.692	mg/L	0.050	104	70	130	1.7	20	
Vanadium	0.681	mg/L	0.10	101	70	130	5.8	20	
Zinc	0.595	mg/L	0.010	103	70	130	3.6	20	
Calcium	158	mg/L	1.0		70	130	0.9	20	A
Magnesium	74.6	mg/L	1.0	104	70	130	1.5	20	
Potassium	44.4	mg/L	1.0	106	70	130	0.5	20	
Silica	11.9	mg/L	0.10	162	70	130	2.5	20	S
Sodium	29.1	mg/L	1.1	98	70	130	1.1	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R104056
Sample ID: MB-080710A	Method Blank				Run: SUB-C104056				07/10/08 15:51
Silica	0.04	mg/L	0.02						
Aluminum	0.009	mg/L	0.004						
Barium	0.02	mg/L	0.006						
Boron	0.03	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	0.003	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080710A	Laboratory Fortified Blank				Run: SUB-C104056				07/10/08 15:55
Silica	0.46	mg/L	0.10	105	85	125			
Aluminum	1.0	mg/L	0.10	101	85	125			
Barium	1.0	mg/L	0.10	100	85	125			
Boron	1.1	mg/L	0.10	105	85	125			
Calcium	54	mg/L	0.50	108	85	125			
Chromium	1.0	mg/L	0.050	104	85	125			
Iron	1.1	mg/L	0.030	112	85	125			
Magnesium	54	mg/L	0.50	108	85	125			
Manganese	1.0	mg/L	0.010	102	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	102	85	125			
Potassium	46	mg/L	0.50	93	85	125			
Sodium	51	mg/L	0.77	101	85	125			
Zinc	1.0	mg/L	0.010	104	85	125			
Sample ID: C08061168-012BMS2	Sample Matrix Spike				Run: SUB-C104056				07/10/08 16:03
Aluminum	4.98	mg/L	0.10	99	70	130			
Barium	5.03	mg/L	0.10	101	70	130			
Boron	6.39	mg/L	0.10	102	70	130			
Chromium	5.14	mg/L	0.050	103	70	130			
Iron	5.48	mg/L	0.030	110	70	130			
Manganese	5.13	mg/L	0.010	103	70	130			
Molybdenum	5.11	mg/L	0.10	101	70	130			
Nickel	5.10	mg/L	0.050	102	70	130			
Zinc	5.23	mg/L	0.011	103	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R104056	
Sample ID: C08061168-012BMS2	Sample Matrix Spike				Run: SUB-C104056			07/10/08 16:03	
Calcium	306	mg/L	1.0	104	70	130			
Magnesium	272	mg/L	1.0	105	70	130			
Potassium	226	mg/L	1.0	89	70	130			
Silica	11.1	mg/L	0.10		70	130			A
Sodium	932	mg/L	3.9	93	70	130			
Sample ID: C08061168-012BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C104056			07/10/08 16:07	
Aluminum	4.78	mg/L	0.10	95	70	130	4.1	20	
Barium	4.99	mg/L	0.10	100	70	130	0.9	20	
Boron	6.39	mg/L	0.10	102	70	130	0.0	20	
Chromium	5.09	mg/L	0.050	102	70	130	1.0	20	
Iron	5.37	mg/L	0.030	107	70	130	2.0	20	
Manganese	5.07	mg/L	0.010	101	70	130	1.1	20	
Molybdenum	5.08	mg/L	0.10	101	70	130	0.4	20	
Nickel	5.06	mg/L	0.050	101	70	130	0.7	20	
Zinc	5.15	mg/L	0.011	102	70	130	1.6	20	
Calcium	304	mg/L	1.0	103	70	130	0.5	20	
Magnesium	274	mg/L	1.0	106	70	130	0.6	20	
Potassium	229	mg/L	1.0	91	70	130	1.2	20	
Silica	11.0	mg/L	0.10		70	130	0.3	20	A
Sodium	939	mg/L	3.9	96	70	130	0.7	20	
Sample ID: C08061234-001BMS2	Sample Matrix Spike				Run: SUB-C104056			07/10/08 17:08	
Aluminum	2.18	mg/L	0.10	99	70	130			
Barium	2.06	mg/L	0.10	101	70	130			
Boron	4.65	mg/L	0.10	103	70	130			
Chromium	2.07	mg/L	0.050	104	70	130			
Iron	2.21	mg/L	0.030	108	70	130			
Manganese	2.06	mg/L	0.010	103	70	130			
Molybdenum	2.02	mg/L	0.10	101	70	130			
Nickel	2.03	mg/L	0.050	102	70	130			
Zinc	2.08	mg/L	0.010	104	70	130			
Calcium	107	mg/L	1.0	104	70	130			
Magnesium	105	mg/L	1.0	105	70	130			
Potassium	89.8	mg/L	1.0	87	70	130			
Silica	23.6	mg/L	0.10		70	130			A
Sodium	774	mg/L	1.5		70	130			A
Sample ID: C08061234-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C104056			07/10/08 17:12	
Aluminum	2.20	mg/L	0.10	100	70	130	1.0	20	
Barium	2.07	mg/L	0.10	102	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R104056	
Sample ID: C08061234-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C104056			07/10/08 17:12	
Boron	4.66	mg/L	0.10	103	70	130	0.1	20	
Chromium	2.08	mg/L	0.050	104	70	130	0.4	20	
Iron	2.21	mg/L	0.030	108	70	130	0.1	20	
Manganese	2.07	mg/L	0.010	103	70	130	0.5	20	
Molybdenum	2.04	mg/L	0.10	102	70	130	1.1	20	
Nickel	2.04	mg/L	0.050	102	70	130	0.3	20	
Zinc	2.10	mg/L	0.010	105	70	130	0.8	20	
Calcium	107	mg/L	1.0	104	70	130	0.4	20	
Magnesium	106	mg/L	1.0	106	70	130	1.0	20	
Potassium	91.0	mg/L	1.0	88	70	130	1.3	20	
Silica	23.5	mg/L	0.10		70	130	0.4	20	A
Sodium	780	mg/L	1.5		70	130	0.7	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18951
Sample ID: MB-18951	Method Blank				Run: SUB-C104503				07/18/08 13:05
Arsenic	0.0005	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	ND	mg/L	5E-05						
Silver	ND	mg/L	4E-05						
Thorium 232	0.0004	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18951	Laboratory Control Sample				Run: SUB-C104503				07/18/08 13:12
Arsenic	0.508	mg/L	0.0010	102	85	115			
Cadmium	0.258	mg/L	0.010	103	85	115			
Lead	0.523	mg/L	0.050	105	85	115			
Silver	0.0480	mg/L	0.010	96	85	115			
Thorium 232	0.521	mg/L	0.0010	104	85	115			
Uranium	0.526	mg/L	0.00032	105	85	115			
Sample ID: R08060347-004B	Sample Matrix Spike				Run: SUB-C104503				07/18/08 14:13
Arsenic	0.548	mg/L	0.0010	109	70	130			
Cadmium	0.264	mg/L	0.010	105	70	130			
Lead	0.570	mg/L	0.050	114	70	130			
Silver	0.0515	mg/L	0.010	103	70	130			
Thorium 232	0.635	mg/L	0.0010	127	70	130			
Uranium	0.636	mg/L	0.00030	127	70	130			
Sample ID: R08060347-004B	Sample Matrix Spike Duplicate				Run: SUB-C104503				07/18/08 14:20
Arsenic	0.530	mg/L	0.0010	106	70	130	3.2	20	
Cadmium	0.255	mg/L	0.010	101	70	130	3.4	20	
Lead	0.549	mg/L	0.050	110	70	130	3.8	20	
Silver	0.0497	mg/L	0.010	99	70	130	3.6	20	
Thorium 232	0.609	mg/L	0.0010	122	70	130	4.2	20	
Uranium	0.604	mg/L	0.00030	120	70	130	5.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104758	
Sample ID: LRB	Method Blank				Run: SUB-C104758			07/23/08 12:27	
Aluminum	ND	mg/L	0.0001						
Arsenic	ND	mg/L	4E-05						
Cadmium	ND	mg/L	3E-06						
Copper	ND	mg/L	3E-05						
Lead	ND	mg/L	3E-06						
Mercury	ND	mg/L	1E-05						
Silver	0.0007	mg/L	7E-06						
Uranium	4E-06	mg/L	2E-06						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104758			07/23/08 12:34	
Aluminum	0.0509	mg/L	0.0010	102	85	115			
Arsenic	0.0497	mg/L	0.0010	99	85	115			
Cadmium	0.0506	mg/L	0.0010	101	85	115			
Copper	0.0512	mg/L	0.0010	102	85	115			
Lead	0.0492	mg/L	0.0010	98	85	115			
Mercury	0.00498	mg/L	0.0010	100	85	115			
Silver	0.0196	mg/L	0.0010	95	85	115			
Uranium	0.0488	mg/L	0.00030	98	85	115			
Vanadium	0.0492	mg/L	0.0010	98	85	115			
Sample ID: C08061324-001KMS4	Post Digestion Spike				Run: SUB-C104758			07/23/08 14:14	
Aluminum	0.0538	mg/L	0.10	106	70	130			
Arsenic	0.0504	mg/L	0.0010	101	70	130			
Cadmium	0.0485	mg/L	0.010	97	70	130			
Copper	0.0498	mg/L	0.010	98	70	130			
Lead	0.0486	mg/L	0.050	97	70	130			
Mercury	0.00508	mg/L	0.0010	101	70	130			
Silver	0.0115	mg/L	0.010	58	70	130			S
Thorium 232	0.0484	mg/L	0.0010	97	70	130			
Uranium	0.276	mg/L	0.00030		70	130			A
Vanadium	0.0483	mg/L	0.10	97	70	130			
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate				Run: SUB-C104758			07/23/08 14:21	
Aluminum	0.0538	mg/L	0.10	106	70	130	0.0	20	
Arsenic	0.0526	mg/L	0.0010	105	70	130	4.3	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	4.0	20	
Copper	0.0520	mg/L	0.010	102	70	130	4.2	20	
Lead	0.0498	mg/L	0.050	100	70	130	0.0	20	
Mercury	0.00545	mg/L	0.0010	109	70	130	7.1	20	
Silver	0.00980	mg/L	0.010	49	70	130	0.0	20	S

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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R104758	
Sample ID: C08061324-001KMSD4	Post Digestion Spike Duplicate				Run: SUB-C104758			07/23/08 14:21	
Thorium 232	0.0501	mg/L	0.0010	100	70	130	3.6	20	
Uranium	0.276	mg/L	0.00030		70	130	0.2	20	A
Vanadium	0.0505	mg/L	0.10	101	70	130	0.0	20	
Method: E200.8								Batch: C_R104854	
Sample ID: LRB	Method Blank				Run: SUB-C104854			07/25/08 12:43	
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Silver	ND	mg/L	3E-05						
Vanadium	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C104854			07/25/08 12:50	
Arsenic	0.0511	mg/L	0.0010	102	85	115			
Cadmium	0.0522	mg/L	0.0010	104	85	115			
Copper	0.0509	mg/L	0.0010	102	85	115			
Silver	0.0206	mg/L	0.0010	103	85	115			
Vanadium	0.0512	mg/L	0.0010	102	85	115			
Sample ID: C08070230-001KMS4	Post Digestion Spike				Run: SUB-C104854			07/25/08 14:31	
Arsenic	0.0503	mg/L	0.0010	98	70	130			
Cadmium	0.0486	mg/L	0.010	97	70	130			
Copper	0.0462	mg/L	0.010	91	70	130			
Silver	0.0148	mg/L	0.010	74	70	130			
Vanadium	0.0486	mg/L	0.10	97	70	130			
Sample ID: C08070230-001KMSD4	Post Digestion Spike Duplicate				Run: SUB-C104854			07/25/08 14:38	
Arsenic	0.0507	mg/L	0.0010	99	70	130	1.0	20	
Cadmium	0.0483	mg/L	0.010	97	70	130	0.7	20	
Copper	0.0463	mg/L	0.010	91	70	130	0.2	20	
Silver	0.0128	mg/L	0.010	64	70	130	15	20	S
Vanadium	0.0479	mg/L	0.10	95	70	130	0.0	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_33287
Sample ID: MB-33287	Method Blank				Run: SUB-C103668				07/02/08 09:04
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33287	Laboratory Fortified Blank				Run: SUB-C103668				07/02/08 09:08
Mercury	0.0021	mg/L	0.0010	107	85	115			
Sample ID: B08062811-001HMS	Sample Matrix Spike				Run: SUB-C103668				07/02/08 09:48
Mercury	0.0018	mg/L	0.0010	92	70	130			
Sample ID: B08062811-001HMSD	Sample Matrix Spike Duplicate				Run: SUB-C103668				07/02/08 09:50
Mercury	0.0019	mg/L	0.0010	95	70	130	3.8	30	
Method: E245.1									Analytical Run: SUB-C103668
Sample ID: QCS	Initial Calibration Verification Standard								07/02/08 08:49
Mercury	0.0021	mg/L	0.0010	103	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35577
Sample ID: LFB0806190922-3	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:04
Chloride	4.62	mg/L	0.50	92	90	110			
Fluoride	1.80	mg/L	0.10	90	90	110			
Nitrogen, Nitrate as N	2.27	mg/L	0.10	91	90	110			
Sulfate	13.9	mg/L	1.0	93	90	110			
Sample ID: LFB0806190922-4	Laboratory Fortified Blank				Run: DIONEX_080619A				06/19/08 17:20
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	95	90	110			
Sample ID: R08060335-001AMS	Sample Matrix Spike				Run: DIONEX_080619A				06/20/08 00:43
Chloride	244	mg/L	5.4	87	80	120			
Fluoride	93.4	mg/L	0.56	85	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	93	80	120			
Sulfate	1890	mg/L	3.4	87	80	120			
Sample ID: R08060335-001AMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080619A				06/20/08 01:00
Chloride	240	mg/L	5.4	85	80	120	2.0	10	
Fluoride	91.0	mg/L	0.56	83	80	120	2.6	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	2.4	10	
Sulfate	1870	mg/L	3.4	85	80	120	0.9	10	
Sample ID: R08060347-004CMS	Sample Matrix Spike				Run: DIONEX_080619A				06/20/08 03:44
Chloride	240	mg/L	5.4	88	80	120			
Fluoride	94.1	mg/L	0.56	86	80	120			
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120			
Sulfate	1140	mg/L	3.4	84	80	120			
Sample ID: R08060347-004CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080619A				06/20/08 04:00
Chloride	233	mg/L	5.4	85	80	120	3.0	10	
Fluoride	91.6	mg/L	0.56	84	80	120	2.7	10	
Nitrogen, Nitrate as N	114	mg/L	1.3	91	80	120	2.9	10	
Sulfate	1130	mg/L	3.4	82	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35594
Sample ID: LFB0806204637-3	Laboratory Fortified Blank				Run: DIONEX_080620A				06/20/08 16:58
Chloride	4.82	mg/L	0.50	96	90	110			
Sample ID: LFB0806204637-4	Laboratory Fortified Blank				Run: DIONEX_080620A				06/20/08 17:15
Chloride	4.65	mg/L	0.50	93	90	110			
Sample ID: R08060318-001DMS	Sample Matrix Spike				Run: DIONEX_080620A				06/21/08 00:21
Chloride	30.0	mg/L	0.54	87	80	120			
Sample ID: R08060318-001DMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080620A				06/21/08 00:38
Chloride	29.5	mg/L	0.54	85	80	120	1.7	10	
Method: E900.0									Batch: C_GrAB-0485
Sample ID: MB-GrAB-0485	Method Blank				Run: SUB-C104921				07/26/08 03:40
Gross Alpha	2	pCi/L							
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921				07/26/08 03:40
Gross Alpha	120	pCi/L		87	70	130			
Sample ID: Cs137-GrAB-0485	Laboratory Control Sample				Run: SUB-C104921				07/26/08 03:41
Gross Beta	100	pCi/L		108	70	130			
Sample ID: R08060347-002I	Sample Duplicate				Run: SUB-C104921				07/26/08 03:41
Gross Alpha	196	pCi/L					1.9	28.4	
Gross Beta	75.0	pCi/L					6.6	41.2	
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921				07/26/08 21:24
Gross Alpha	168	pCi/L		119	70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921				07/26/08 21:24
Gross Alpha	148	pCi/L		105	70	130	12	16.3	
Sample ID: C08061318-001DMS	Sample Matrix Spike				Run: SUB-C104921				07/26/08 21:25
Gross Beta	95.8	pCi/L		100	70	130			
Sample ID: C08061318-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104921				07/26/08 21:25
Gross Beta	98.1	pCi/L		102	70	130	2.3	16	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E901.1									Batch: C_R103364
Sample ID: LCS-R103364	Laboratory Control Sample				Run: SUB-C103364				06/26/08 18:46
Cesium 137	468000	pCi/L	20	107	70	130			
Cobalt 60	330000	pCi/L	20	102	70	130			
Sample ID: MB-R103364	Method Blank				Run: SUB-C103364				06/26/08 18:46
Gross Gamma	ND	pCi/L							
Sample ID: R08060347-004I	Sample Duplicate				Run: SUB-C103364				06/26/08 18:46
Gross Gamma	820	pCi/L	20				27	30	
Method: E903.0									Batch: C_R104614
Sample ID: LCS-18976	Laboratory Control Sample				Run: SUB-C104614				07/16/08 15:34
Radium 226	80	pCi/L		113	70	130			
Sample ID: MB-18976	Method Blank				Run: SUB-C104614				07/16/08 15:34
Radium 226	-2	pCi/L							U
Sample ID: C08070075-016BMS	Sample Matrix Spike				Run: SUB-C104614				07/16/08 15:34
Radium 226	0.0019	uCi/kg		119	70	130			
Sample ID: C08070075-016BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104614				07/16/08 17:15
Radium 226	0.0018	uCi/kg		107	70	130	7.5	24.7	
Method: E903.0									Batch: C_RA226-2933
Sample ID: C08061168-012DMS	Sample Matrix Spike				Run: SUB-C104739				07/21/08 08:17
Radium 226	15	pCi/L		91	70	130			
Sample ID: C08061168-012DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104739				07/21/08 09:47
Radium 226	14	pCi/L		90	70	130	1.1	24.2	
Sample ID: MB-RA226-2933	Method Blank				Run: SUB-C104739				07/22/08 14:25
Radium 226	0.02	pCi/L							U
Sample ID: LCS-RA226-2933	Laboratory Control Sample				Run: SUB-C104739				07/22/08 15:55
Radium 226	6.8	pCi/L		86	70	130			

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_18947
Sample ID: C08060794-001AMS	Sample Matrix Spike				Run: SUB-C104657				07/10/08 13:42
Thorium 230	93.3	pCi/Filter	0.20	105	70	130			
Sample ID: C08060794-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104657				07/10/08 13:44
Thorium 230	93.4	pCi/Filter	0.20	94	70	130	0.1	30	
Sample ID: LCS-18947	Laboratory Control Sample				Run: SUB-C104657				07/10/08 13:49
Thorium 230	50.9	pCi/L	0.20	100	70	130			
Sample ID: MB-18947	Method Blank				Run: SUB-C104657				07/10/08 12:56
Thorium 230	0.9	pCi/L							U
Method: E907.0									Batch: C_RA-TH-ISO-0569
Sample ID: LCS-RA-TH-ISO-0569	Laboratory Control Sample				Run: SUB-C104856				07/18/08 14:22
Thorium 230	6.38	pCi/L	0.20	102	70	130			
Sample ID: C08061256-002DMS	Sample Matrix Spike				Run: SUB-C104856				07/18/08 14:22
Thorium 230	15.0	pCi/L	0.20	92	70	130			
Sample ID: C08061256-002DMSD	Sample Matrix Spike Duplicate				Run: SUB-C104856				07/18/08 14:22
Thorium 230	14.0	pCi/L	0.20	87	70	130	7.0	30	
Sample ID: MB-RA-TH-ISO-0569	Method Blank				Run: SUB-C104856				07/18/08 20:05
Thorium 230	0.10	pCi/L							U
Method: E909.0M									Batch: C_18947
Sample ID: R08060347-004K	Sample Matrix Spike				Run: SUB-C105488				07/15/08 07:15
Lead 210	1000	pCi/L		88	70	130			
Sample ID: R08060347-004K	Sample Matrix Spike Duplicate				Run: SUB-C105488				07/15/08 07:15
Lead 210	930	pCi/L		80	70	130	10	30	
Sample ID: MB-R105488	Method Blank				Run: SUB-C105488				07/15/08 07:15
Lead 210	-1	pCi/L							U
Sample ID: LCS-R105488	Laboratory Control Sample				Run: SUB-C105488				07/15/08 07:15
Lead 210	96	pCi/L		82	70	130			

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060347

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_R105675
Sample ID: C08070067-003AMS	Sample Matrix Spike				Run: SUB-C105675				07/18/08 08:20
Lead 210	640	pCi/L		110	70	130			
Sample ID: C08070067-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105675				07/18/08 08:20
Lead 210	540	pCi/L		92	70	130	18	30	
Sample ID: MB-R105675	Method Blank				Run: SUB-C105675				07/18/08 08:20
Lead 210	-2	pCi/L							U
Sample ID: LCS-R105675	Laboratory Control Sample				Run: SUB-C105675				07/18/08 08:20
Lead 210	110	pCi/L		94	70	130			
Method: RMO-3008									Batch: C_18947
Sample ID: C08061021-001FMS	Sample Matrix Spike				Run: SUB-C106166				08/18/08 17:00
Polonium 210	20	pCi/L	1.0	87	70	130			
Sample ID: C08061021-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C106166				08/18/08 17:00
Polonium 210	21	pCi/L	1.0	93	70	130	7.1	30	
Sample ID: LCS-18947	Laboratory Control Sample				Run: SUB-C106166				08/18/08 17:00
Polonium 210	110	pCi/L	1.0	135	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MB, MS, MSD, and the RPD for the MS MSD pair are acceptable the batch is approved.									
Sample ID: MB-18947	Method Blank				Run: SUB-C106166				08/18/08 17:00
Polonium 210	ND	pCi/L							U
Method: RMO-3008									Batch: C_R104445
Sample ID: C08061292-003AMS	Sample Matrix Spike				Run: SUB-C104445				07/09/08 18:40
Polonium 210	72	pCi/L	1.0	83	70	130			
Sample ID: C08061292-003AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104445				07/09/08 18:40
Polonium 210	67	pCi/L	1.0	77	70	130	7.4	30	
Sample ID: LCS-R104445	Laboratory Control Sample				Run: SUB-C104445				07/09/08 18:40
Polonium 210	25	pCi/L	1.0	58	70	130			S
- LCS response is outside of the acceptance range for this analysis. Since the MS and MSD are acceptable the batch is approved.									
Sample ID: MB-R104445	Method Blank				Run: SUB-C104445				07/09/08 18:40
Polonium 210	ND	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC	Project Name, PWS, Permit, Etc.: Powertech DB	Sample Origin State:	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax: cory.foreman@respec.com	Email:	Sampler: (Please Print) Eric Krantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

ANALYSIS REQUESTED

	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)	As Per Quote	+ Pb	+ Po							SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Comments: ALL SW	LABORATORY USE ONLY
1	Dewburd Sub01	6/18/08	12:00	W													set 29 Dorgan Ranch	B08060347-001
2	Dewburd Sub02	6/18/08	12:05	W													set 17 Triangle Pit	002
3	Dewburd Sub 02	6/18/08	13:10	W													set 6 Triangle Pit	003
4	Dewburd Sub 03	6/18/08	14:15	W													set 3 N. cluster pond	004
5																		
6																		
7																		
8																		
9																		
10																		

Shipped by:
Cooler ID(s):
Receipt Temp 7.1 °C
On Ice: (Yes) No
Custody Seal Y N
Intact Y N
Signature Match Y N

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	6/19/08 11:00	[signature]	Steve Froiland	6-19-08 1110	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

August 21, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08060403 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 6 samples from RESPEC Inc on 6/24/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08060403-001	DewBurd SUB08	06/23/08 12:20	06/24/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Bacteria, Fecal Coliform Conductivity Chromium, Hexavalent Chromium, Trivalent Mercury, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium, Total Selenium, Dissolved Selenium-VI, Total Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Digestion, As/Se by Hydride Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Lead 210, Dissolved Lead 210, Suspended Lead 210, Total Polonium 210, Dissolved Polonium 210, Suspended Polonium 210, Total Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08060403-002	DewBurd SUB09	06/23/08 12:50	06/24/08	Aqueous	Same As Above
R08060403-003	DewBurd SUB06	06/23/08 13:45	06/24/08	Aqueous	Same As Above

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

R08060403-004	DewBurd SUB07	06/23/08 14:30	06/24/08	Aqueous	Same As Above
R08060403-005	DewBurd SUB11	06/23/08 15:10	06/24/08	Aqueous	Same As Above
R08060403-006	DewBurd SUB10	06/23/08 16:25	06/24/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *21-Aug-08*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08060403

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08061335
ANALYTICAL COMMENTS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.
End of comments imported for SUBBED Workorder: C08061335

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-001
Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
Collection Date: 06/23/08 12:20
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	12	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	130	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Bicarbonate as HCO3	149	mg/L		5		1	A2320 B	06/25/08 11:22/mb
Calcium	79.4	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Chloride	14	mg/L		1		1	E300.0	06/25/08 11:51/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/25/08 11:51/jmh
Magnesium	31.5	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:12/ch
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	06/25/08 11:51/jmh
Potassium	11	mg/L		1		2	E200.7	07/01/08 22:07/eli-c
Silica	ND	mg/L		0.5		2	E200.7	07/01/08 22:07/eli-c
Sodium	304	mg/L	D	2		2	E200.7	07/01/08 22:07/eli-c
Sulfate	747	mg/L	D	3		50	E300.0	06/25/08 11:35/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1800	umhos/cm		5.0		1	A2510 B	06/25/08 14:29/tb
pH	8.92	s.u.		0.01		1	A4500-H B	06/25/08 13:57/tb
Sodium Adsorption Ratio (SAR)	7.3	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	13	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	1300	mg/L		5		1	A2540 C	06/27/08 11:45/mb
Solids, Total Suspended TSS @ 105 C	7	mg/L		5		1	A2540 D	06/27/08 17:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:30/eli-c
Iron	0.04	mg/L		0.03		2	E200.7	07/01/08 22:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Manganese	0.01	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:30/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-001
Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
Collection Date: 06/23/08 12:20
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:30/eli-c
Uranium	0.0026	mg/L		0.0003		1	E200.8	07/07/08 15:30/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:07/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/01/08 22:07/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:30/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:30/eli-c
METALS - TOTAL								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Arsenic	0.004	mg/L		0.001		10	E200.8	07/07/08 17:32/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Boron	0.4	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:19/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Iron	0.53	mg/L		0.03		2	E200.7	07/08/08 00:19/eli-c
Lead	0.013	mg/L	D	0.007		10	E200.8	07/07/08 17:32/eli-c
Manganese	0.06	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:19/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 17:32/eli-c
Uranium	0.0016	mg/L		0.0003		10	E200.8	07/07/08 17:32/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:19/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	07/08/08 00:19/eli-c
Calcium	83.1	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Magnesium	33.5	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Potassium	11.5	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Silica	0.8	mg/L		0.5		2	E200.7	07/08/08 00:19/eli-c
Sodium	324	mg/L	D	1		2	E200.7	07/08/08 00:19/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 15:50/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 12:50/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-001
Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
Collection Date: 06/23/08 12:20
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:10/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:30/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	1.9	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.4	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.30	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.4	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	14.1	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	4.1	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	5.1	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	11.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	3.4	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	5.3	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-001
Client Sample ID: DewBurd SUB08

Report Date: 08/21/08
Collection Date: 06/23/08 12:20
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	5.3	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.0	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.43	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.52	pCi/L	U	0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:05/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.86	%				1	A1030 E	08/21/08 00:00/lkl
Anions	18.6	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	20.1	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	1270	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.990					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-002
Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
Collection Date: 06/23/08 12:50
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	190	CFU/100ml	D	10		10	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	80	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Bicarbonate as HCO3	98	mg/L		5		1	A2320 B	06/25/08 11:27/mb
Calcium	17.4	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Chloride	4	mg/L		1		1	E300.0	06/25/08 12:24/jmh
Fluoride	0.5	mg/L		0.1		1	E300.0	06/25/08 12:24/jmh
Magnesium	10.3	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Nitrogen, Ammonia as N	0.8	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:16/ch
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	06/25/08 12:24/jmh
Potassium	13	mg/L		1		2	E200.7	07/01/08 22:15/eli-c
Silica	5.9	mg/L		0.5		2	E200.7	07/01/08 22:15/eli-c
Sodium	9	mg/L	D	2		2	E200.7	07/01/08 22:15/eli-c
Sulfate	28	mg/L		1		1	E300.0	06/25/08 12:24/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	249	umhos/cm		5.0		1	A2510 B	06/25/08 14:29/tb
pH	7.40	s.u.		0.01		1	A4500-H B	06/25/08 13:58/tb
Sodium Adsorption Ratio (SAR)	0.42	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	425	mg/L		5		1	D3977	06/30/08 15:48/mb
Solids, Total Dissolved TDS @ 180 C	280	mg/L		5		1	A2540 C	08/20/08 00:00/mb
Solids, Total Suspended TSS @ 105 C	190	mg/L		5		1	A2540 D	06/27/08 17:06/mb
TDS value was reconfirmed								
METALS - DISSOLVED								
Aluminum	0.2	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:37/eli-c
Iron	0.21	mg/L		0.03		2	E200.7	07/01/08 22:15/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Manganese	0.08	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:37/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-002
Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
Collection Date: 06/23/08 12:50
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:37/eli-c
Uranium	0.0056	mg/L		0.0003		1	E200.8	07/07/08 15:37/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:15/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/01/08 22:15/eli-c
METALS - SUSPENDED								
Thorium 232	0.005	mg/L		0.001		1	E200.8	07/11/08 15:36/eli-c
Uranium	0.0010	mg/L		0.0003		1	E200.8	07/11/08 15:36/eli-c
METALS - TOTAL								
Aluminum	42.8	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Arsenic	0.017	mg/L		0.001		10	E200.8	07/07/08 17:39/eli-c
Barium	0.2	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Chromium	0.05	mg/L		0.05		2	E200.7	07/08/08 00:23/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	0.05	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	0.02	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Iron	37.0	mg/L		0.03		2	E200.7	07/08/08 00:23/eli-c
Lead	0.045	mg/L	D	0.007		10	E200.8	07/07/08 17:39/eli-c
Manganese	0.23	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:23/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Thorium 232	0.010	mg/L		0.005		10	E200.8	07/07/08 17:39/eli-c
Uranium	0.0023	mg/L		0.0003		10	E200.8	07/07/08 17:39/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:23/eli-c
Zinc	0.11	mg/L		0.01		2	E200.7	07/08/08 00:23/eli-c
Calcium	22.6	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Magnesium	18.3	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Potassium	24.9	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Silica	73.4	mg/L		0.5		2	E200.7	07/08/08 00:23/eli-c
Sodium	9	mg/L	D	1		2	E200.7	07/08/08 00:23/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 15:56/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-002
Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
Collection Date: 06/23/08 12:50
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 12:58/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.002	mg/L		0.001		1	A3114 B	07/22/08 15:16/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:36/eli-c
Selenium-VI	0.002	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-0.9	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	8.6	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.1	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.09	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	4.5	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.06	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.4	pCi/L		0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	15.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	1.7	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	20.6	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	07/19/08 01:30/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-002
Client Sample ID: DewBurd SUB09

Report Date: 08/21/08
Collection Date: 06/23/08 12:50
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	3.6	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.8	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.72	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	0.04	pCi/L	U	0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.3	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:12/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.63	%				1	A1030 E	08/21/08 00:00/lkl
Anions	2.36	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	2.54	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	149	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.87					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-003
Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
Collection Date: 06/23/08 13:45
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 11:30/mb
Calcium	328	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Chloride	5	mg/L		1		1	E300.0	06/25/08 12:57/jmh
Fluoride	3.9	mg/L		0.1		1	E300.0	06/25/08 12:57/jmh
Magnesium	436	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Nitrogen, Ammonia as N	2.0	mg/L		0.1		2	A4500-NH3 G	06/25/08 16:28/ch
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	06/25/08 12:57/jmh
Potassium	17	mg/L		1		2	E200.7	07/01/08 22:19/eli-c
Silica	10.2	mg/L		0.5		2	E200.7	07/01/08 22:19/eli-c
Sodium	52	mg/L	D	2		2	E200.7	07/01/08 22:19/eli-c
Sulfate	3180	mg/L	D	3		50	E300.0	06/25/08 12:40/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	4110	umhos/cm		5.0		1	A2510 B	06/25/08 14:31/tb
pH	3.52	s.u.		0.01		1	A4500-H B	06/25/08 13:59/tb
Sodium Adsorption Ratio (SAR)	0.44	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	8	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	4500	mg/L		5		1	A2540 C	06/27/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	14	mg/L		5		1	A2540 D	06/27/08 17:07/mb
METALS - DISSOLVED								
Aluminum	64.4	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Cadmium	0.015	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Chromium	0.01	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
Copper	0.07	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
Iron	1.88	mg/L		0.03		2	E200.7	07/01/08 22:19/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Manganese	133	mg/L		0.01		20	E200.7	07/15/08 12:04/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:44/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Nickel	3.01	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-003
Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
Collection Date: 06/23/08 13:45
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:44/eli-c
Uranium	3.22	mg/L		0.0003		1	E200.8	07/07/08 15:44/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:19/eli-c
Zinc	2.99	mg/L		0.01		2	E200.7	07/01/08 22:19/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:43/eli-c
Uranium	0.0015	mg/L		0.0003		1	E200.8	07/11/08 15:43/eli-c
METALS - TOTAL								
Aluminum	62.8	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	07/07/08 18:06/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Cadmium	0.019	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:27/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	0.06	mg/L		0.01		2	E200.7	07/08/08 00:27/eli-c
Iron	2.19	mg/L		0.03		2	E200.7	07/08/08 00:27/eli-c
Lead	0.011	mg/L	D	0.007		10	E200.8	07/07/08 18:06/eli-c
Manganese	0.06	mg/L		0.01		1	E200.8	07/11/08 18:38/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Nickel	3.03	mg/L		0.05		2	E200.7	07/08/08 00:27/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Thorium 232	0.005	mg/L		0.005		10	E200.8	07/07/08 18:06/eli-c
Uranium	3.61	mg/L		0.0003		10	E200.8	07/07/08 18:06/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/08/08 00:27/eli-c
Zinc	2.92	mg/L		0.01		2	E200.7	07/08/08 00:27/eli-c
Calcium	330	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Magnesium	439	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Potassium	17.7	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Silica	11.4	mg/L		0.5		2	E200.7	07/08/08 00:27/eli-c
Sodium	54	mg/L	D	1		2	E200.7	07/08/08 00:27/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	0.009	mg/L		0.005		1	A3114 B	07/19/08 15:58/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:00/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-003
Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
Collection Date: 06/23/08 13:45
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	0.009	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	0.008	mg/L		0.001		1	A3114 B	07/22/08 15:18/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:38/eli-c
Selenium-VI	0.008	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-0.6	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.60	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	2.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	6.3	pCi/L		0.2		1	E907.0	07/24/08 15:44/eli-c
Thorium 230 precision (±)	2.0	pCi/L				1	E907.0	07/24/08 15:44/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	3.7	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.40	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	3570	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha precision (±)	82.4	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Alpha MDC	16.6	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta	1200	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta precision (±)	24.5	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Beta MDC	17.5	pCi/L				1	E900.0	07/19/08 01:30/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c

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

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-003
Client Sample ID: DewBurd SUB06

Report Date: 08/21/08
Collection Date: 06/23/08 13:45
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	3.1	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.9	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.72	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	2.0	pCi/L		0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	6.5	pCi/L		0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	2.0	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:14/eli-b
DATA QUALITY								
A/C Balance (± 5)	3.85	%				1	A1030 E	08/21/08 00:00/lkl
Anions	66.6	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	72.0	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	4050	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.12					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-004
Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
Collection Date: 06/23/08 14:30
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	ND	CFU/100ml	D	2		2	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	06/25/08 12:07/mb
Calcium	21.6	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Chloride	2	mg/L		1		1	E300.0	06/25/08 14:35/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	06/25/08 14:35/jmh
Magnesium	12.2	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:18/ch
Nitrogen, Nitrate as N	0.2	mg/L		0.1		1	E300.0	06/25/08 14:35/jmh
Potassium	10	mg/L		1		2	E200.7	07/01/08 22:23/eli-c
Silica	2.8	mg/L		0.5		2	E200.7	07/01/08 22:23/eli-c
Sodium	2	mg/L	D	2		2	E200.7	07/01/08 22:23/eli-c
Sulfate	169	mg/L	D	3		50	E300.0	06/25/08 13:46/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	283	umhos/cm		5.0		1	A2510 B	06/25/08 14:31/tb
pH	4.97	s.u.		0.01		1	A4500-H B	06/25/08 14:00/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	26	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	180	mg/L		5		1	A2540 C	06/27/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	32	mg/L		5		1	A2540 D	06/27/08 17:08/mb
METALS - DISSOLVED								
Aluminum	0.1	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:50/eli-c
Iron	0.11	mg/L		0.03		2	E200.7	07/01/08 22:23/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Manganese	1.98	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:50/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Nickel	0.03	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-004
Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
Collection Date: 06/23/08 14:30
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:50/eli-c
Uranium	0.0024	mg/L		0.0003		1	E200.8	07/07/08 15:50/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:23/eli-c
Zinc	0.04	mg/L		0.01		2	E200.7	07/01/08 22:23/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:49/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:49/eli-c
METALS - TOTAL								
Aluminum	0.8	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Arsenic	0.002	mg/L		0.001		10	E200.8	07/07/08 18:13/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:31/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Iron	1.47	mg/L		0.03		2	E200.7	07/08/08 00:31/eli-c
Lead	0.013	mg/L	D	0.007		10	E200.8	07/07/08 18:13/eli-c
Manganese	2.03	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:31/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 18:13/eli-c
Uranium	0.0006	mg/L		0.0003		10	E200.8	07/07/08 18:13/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:31/eli-c
Zinc	0.02	mg/L		0.01		2	E200.7	07/08/08 00:31/eli-c
Calcium	22.6	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Magnesium	12.7	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Potassium	10.7	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Silica	4.9	mg/L		0.5		2	E200.7	07/08/08 00:31/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/08/08 00:31/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:00/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:02/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-004
Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
Collection Date: 06/23/08 14:30
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:20/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:40/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	-1.4	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.0	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.3	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.4	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	-0.02	pCi/L	U			1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.6	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.55	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.2	pCi/L		0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	5.8	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha precision (±)	1.1	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha MDC	1.2	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta	12.1	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-004
Client Sample ID: DewBurd SUB07

Report Date: 08/21/08
Collection Date: 06/23/08 14:30
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	-0.8	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	6.9	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	1.3	pCi/L		1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.74	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.38	pCi/L	U	0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:17/eli-b
DATA QUALITY								
A/C Balance (± 5)	-16.2	%				1	A1030 E	08/21/08 00:00/lkl
Anions	3.59	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	2.59	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	225	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	0.780					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-005
Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
Collection Date: 06/23/08 15:10
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	20	CFU/100ml	D	20		20	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	6	mg/L		5		1	A2320 B	06/25/08 12:10/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 12:10/mb
Bicarbonate as HCO3	7	mg/L		5		1	A2320 B	06/25/08 12:10/mb
Calcium	11.2	mg/L		0.5		2	E200.7	07/01/08 22:27/eli-c
Chloride	ND	mg/L		1		1	E300.0	06/25/08 15:08/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	06/25/08 15:08/jmh
Magnesium	3.2	mg/L		0.5		2	E200.7	07/01/08 22:27/eli-c
Nitrogen, Ammonia as N	ND	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:21/ch
Nitrogen, Nitrate as N	0.1	mg/L		0.1		1	E300.0	06/25/08 15:08/jmh
Potassium	6	mg/L		1		2	E200.7	07/01/08 22:27/eli-c
Silica	2.6	mg/L		0.5		2	E200.7	07/01/08 22:27/eli-c
Sodium	3	mg/L	D	2		2	E200.7	07/01/08 22:27/eli-c
Sulfate	43	mg/L		1		1	E300.0	06/25/08 15:08/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	131	umhos/cm		5.0		1	A2510 B	06/25/08 14:32/tb
pH	5.96	s.u.		0.01		1	A4500-H B	06/25/08 14:01/tb
Sodium Adsorption Ratio (SAR)	0.19	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	189	mg/L		5		1	D3977	06/27/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	200	mg/L		5		1	A2540 C	06/27/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	74	mg/L		5		1	A2540 D	06/27/08 17:08/mb
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Arsenic	0.001	mg/L		0.001		1	E200.8	07/07/08 15:57/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 15:57/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:27/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 15:57/eli-c
Iron	0.72	mg/L		0.03		2	E200.7	07/01/08 22:27/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 15:57/eli-c
Manganese	0.74	mg/L		0.01		2	E200.7	07/01/08 22:27/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 15:57/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:27/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-005
Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
Collection Date: 06/23/08 15:10
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 15:57/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 15:57/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/07/08 15:57/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:27/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	07/01/08 22:27/eli-c
METALS - SUSPENDED								
Thorium 232	ND	mg/L		0.001		1	E200.8	07/11/08 15:56/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/11/08 15:56/eli-c
METALS - TOTAL								
Aluminum	9.6	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Arsenic	0.005	mg/L		0.001		10	E200.8	07/07/08 18:19/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Chromium	ND	mg/L		0.05		2	E200.7	07/08/08 00:36/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	ND	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	ND	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Iron	21.4	mg/L		0.03		2	E200.7	07/08/08 00:36/eli-c
Lead	0.021	mg/L	D	0.007		10	E200.8	07/07/08 18:19/eli-c
Manganese	0.91	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:36/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	07/07/08 18:19/eli-c
Uranium	0.0008	mg/L		0.0003		10	E200.8	07/07/08 18:19/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:36/eli-c
Zinc	0.03	mg/L		0.01		2	E200.7	07/08/08 00:36/eli-c
Calcium	12.3	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Magnesium	4.3	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Potassium	9.0	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Silica	20.1	mg/L		0.5		2	E200.7	07/08/08 00:36/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/08/08 00:36/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:02/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:04/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-005
Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
Collection Date: 06/23/08 15:10
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:42/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	3.2	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.2	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	-0.2	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	-0.1	pCi/L	U			1	E903.0	07/09/08 09:54/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 09:54/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.08	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.0	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.67	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	-0.4	pCi/L	U			1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	9.4	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha precision (±)	1.3	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha MDC	1.2	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta	10.4	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta precision (±)	1.7	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta MDC	2.5	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-005
Client Sample ID: DewBurd SUB11

Report Date: 08/21/08
Collection Date: 06/23/08 15:10
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	8.2	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.1	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	0.9	pCi/L	U	1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	0.83	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	-0.51	pCi/L	U	0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:19/eli-b
DATA QUALITY								
A/C Balance (± 5)	7.71	%				1	A1030 E	08/21/08 00:00/lkl
Anions	1.05	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	1.23	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	79.0	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	2.56					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-006
Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
Collection Date: 06/23/08 16:25
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	170	CFU/100ml	D	10		10	A9222 D	06/24/08 11:05/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	38	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Bicarbonate as HCO3	46	mg/L		5		1	A2320 B	06/25/08 12:22/mb
Calcium	34.0	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Chloride	3	mg/L		1		1	E300.0	06/25/08 15:41/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	06/25/08 15:41/jmh
Magnesium	14.5	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Nitrogen, Ammonia as N	0.3	mg/L		0.1		1	A4500-NH3 G	06/25/08 15:23/ch
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	06/25/08 15:41/jmh
Potassium	13	mg/L		1		2	E200.7	07/01/08 22:32/eli-c
Silica	4.3	mg/L		0.5		2	E200.7	07/01/08 22:32/eli-c
Sodium	19	mg/L	D	2		2	E200.7	07/01/08 22:32/eli-c
Sulfate	135	mg/L		1		10	E300.0	06/25/08 15:24/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	419	umhos/cm		5.0		1	A2510 B	06/25/08 14:34/tb
pH	6.96	s.u.		0.01		1	A4500-H B	06/25/08 14:03/tb
Sodium Adsorption Ratio (SAR)	0.70	unitless		0.10		1	Calculation	08/21/08 15:16/ADM
Solids, Suspended Sediment SSC @ 105 C	737	mg/L		5		1	D3977	06/30/08 15:54/mb
Solids, Total Dissolved TDS @ 180 C	410	mg/L		5		1	A2540 C	08/20/08 00:00/mb
Solids, Total Suspended TSS @ 105 C	220	mg/L		5		1	A2540 D	06/27/08 17:08/mb
TDS value was reconfirmed								
METALS - DISSOLVED								
Aluminum	0.3	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Barium	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Boron	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Copper	ND	mg/L		0.01		1	E200.8	07/07/08 16:04/eli-c
Iron	0.14	mg/L		0.03		2	E200.7	07/01/08 22:32/eli-c
Lead	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	07/07/08 16:04/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-006
Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
Collection Date: 06/23/08 16:25
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Nickel	ND	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
Silver	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	07/07/08 16:04/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	07/07/08 16:04/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/01/08 22:32/eli-c
Zinc	0.01	mg/L		0.01		2	E200.7	07/01/08 22:32/eli-c
METALS - SUSPENDED								
Thorium 232	0.005	mg/L		0.001		1	E200.8	07/11/08 16:23/eli-c
Uranium	0.0008	mg/L		0.0003		1	E200.8	07/11/08 16:23/eli-c
METALS - TOTAL								
Aluminum	35.0	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Arsenic	0.010	mg/L		0.001		10	E200.8	07/07/08 18:26/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Boron	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Chromium	0.05	mg/L		0.05		2	E200.7	07/08/08 00:40/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	06/24/08 00:00/mb
Chromium, Trivalent	0.05	mg/L		0.01		1	Calculation	08/21/08 00:00/lkl
Copper	0.02	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Iron	33.7	mg/L		0.03		2	E200.7	07/08/08 00:40/eli-c
Lead	0.039	mg/L	D	0.007		10	E200.8	07/07/08 18:26/eli-c
Manganese	0.35	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Nickel	ND	mg/L		0.05		2	E200.7	07/08/08 00:40/eli-c
Silver	ND	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Thorium 232	0.015	mg/L		0.005		10	E200.8	07/07/08 18:26/eli-c
Uranium	0.0022	mg/L		0.0003		10	E200.8	07/07/08 18:26/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/08/08 00:40/eli-c
Zinc	0.09	mg/L		0.01		2	E200.7	07/08/08 00:40/eli-c
Calcium	39.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Magnesium	20.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Potassium	23.1	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Silica	64.6	mg/L		0.5		2	E200.7	07/08/08 00:40/eli-c
Sodium	19	mg/L	D	1		2	E200.7	07/08/08 00:40/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	07/19/08 16:04/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-006
Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
Collection Date: 06/23/08 16:25
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/19/08 13:06/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/19/08 14:40/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	07/22/08 15:29/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	07/22/08 11:49/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	07/22/08 15:44/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	0.1	pCi/L	U			1	E909.0M	07/10/08 10:10/eli-c
Lead 210 MDC	9.1	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Lead 210 precision (±)	5.5	pCi/L				1	E909.0M	07/10/08 10:10/eli-c
Polonium 210	0.0	pCi/L	U	1.0		1	RMO-3008	07/10/08 21:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	07/10/08 21:30/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	07/09/08 12:50/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	07/09/08 12:50/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	07/09/08 12:50/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	07/22/08 11:26/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	07/22/08 11:26/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	5.2	pCi/L	U			1	E909.0M	07/08/08 06:20/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	07/08/08 06:20/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	08/18/08 17:00/eli-c
Polonium 210 precision (±)	0.71	pCi/L				1	RMO-3008	08/18/08 17:00/eli-c
Radium 226	0.6	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	07/15/08 23:30/eli-c
Thorium 230	0.3	pCi/L		0.2		1	E907.0	07/10/08 19:50/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	07/10/08 19:50/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	16.3	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha precision (±)	2.0	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Alpha MDC	1.6	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta	22.1	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta precision (±)	1.9	pCi/L				1	E900.0	07/19/08 01:29/eli-c
Gross Beta MDC	2.6	pCi/L				1	E900.0	07/19/08 01:29/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08060403-006
Client Sample ID: DewBurd SUB10

Report Date: 08/21/08
Collection Date: 06/23/08 16:25
Date Received: 06/24/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma	0.0	pCi/L	U	20.0		1	E901.1	07/14/08 11:00/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	07/14/08 11:00/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	5.3	pCi/L	U	1.0		1	E909.0M	08/21/08 13:47/eli-c
Lead 210 precision (±)	7.1	pCi/L				1	E909.0M	08/21/08 13:47/eli-c
Polonium 210	1.1	pCi/L		1.0		1	RMO-3008	08/21/08 13:47/eli-c
Polonium 210 precision (±)	1.0	pCi/L				1	RMO-3008	08/21/08 13:47/eli-c
Radium 226	0.8	pCi/L		0.2		1	E903.0	08/21/08 13:47/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/21/08 13:47/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	08/21/08 13:47/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/21/08 13:47/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0001		1	E245.1	07/09/08 12:21/eli-b
DATA QUALITY								
A/C Balance (± 5)	5.17	%				1	A1030 E	08/21/08 00:00/lkl
Anions	3.73	meq/L				1	A1030 E	08/21/08 00:00/lkl
Cations	4.14	meq/L				1	A1030 E	08/21/08 00:00/lkl
Solids, Total Dissolved Calculated	258	mg/L				1	A1030 E	08/21/08 00:00/lkl
TDS Balance (0.80 - 1.20)	1.59					1	A1030 E	08/21/08 00:00/lkl

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080625A-ALK-SEL-W	
Sample ID: LCS1_080625A	Laboratory Control Sample				Run: PH_COND1-R_080625A			06/25/08 09:31	
Alkalinity, Total as CaCO3	964	mg/L	5.0	96	90	110			
Sample ID: MBLK1_080625A	Method Blank				Run: PH_COND1-R_080625A			06/25/08 09:34	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Sample ID: R08060403-005CMS	Sample Matrix Spike				Run: PH_COND1-R_080625A			06/25/08 12:14	
Alkalinity, Total as CaCO3	112	mg/L	5.0	100	80	120			
Sample ID: R08060403-005CMSD	Sample Matrix Spike Duplicate				Run: PH_COND1-R_080625A			06/25/08 12:16	
Alkalinity, Total as CaCO3	114	mg/L	5.0	102	80	120	1.8	10	
Method: A2510 B								Batch: 080625_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080625	Laboratory Control Sample				Run: PH_COND2-R_080625B			06/25/08 14:24	
Conductivity @ 25 C	1400	umhos/cm	5.0	99	90	110			
Sample ID: LCS1-1_080625	Laboratory Control Sample				Run: PH_COND2-R_080625B			06/25/08 14:25	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080625	Laboratory Control Sample				Run: PH_COND2-R_080625B			06/25/08 14:25	
Conductivity @ 25 C	5040	umhos/cm	5.0	101	90	110			
Sample ID: R08060403-006CDUP	Sample Duplicate				Run: PH_COND2-R_080625B			06/25/08 14:39	
Conductivity @ 25 C	415	umhos/cm	5.0				1.0	10	
Sample ID: MBLK-1_080625	Method Blank				Run: PH_COND2-R_080625B			06/25/08 14:37	
Conductivity @ 25 C	ND	umhos/cm	5						
Method: A2540 C								Batch: 080627A-SLDS-TDS-W	
Sample ID: LCS1_080627A	Laboratory Control Sample				Run: BAL-4-R_080627A			06/27/08 11:42	
Solids, Total Dissolved TDS @ 180 C	200	mg/L	5.0	98	90	110			
Sample ID: MBLK1_080627A	Method Blank				Run: BAL-4-R_080627A			06/27/08 11:44	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08060417-001AMS	Sample Matrix Spike				Run: BAL-4-R_080627A			06/27/08 11:49	
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	127	80	120			S
Sample ID: R08060417-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080627A			06/27/08 11:50	
Solids, Total Dissolved TDS @ 180 C	1500	mg/L	5.0	108	80	120	2.5	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080627A-SLDS-TSS-W	
Sample ID: LCS1_080627A	Laboratory Control Sample				Run: BAL-4-R_080627B			06/27/08 17:02	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	94	85	115			
Sample ID: MBLK1_080627A	Method Blank				Run: BAL-4-R_080627B			06/27/08 17:03	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08060403-003CDUP	Sample Duplicate				Run: BAL-4-R_080627B			06/27/08 17:07	
Solids, Total Suspended TSS @ 105 C	10	mg/L	5.0				33	20	R
Method: A3114 B								Batch: C_SE3114-080719B	
Sample ID: MBLK	Method Blank				Run: SUB-C104481			07/19/08 12:46	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104481			07/19/08 12:48	
Selenium-IV	0.055	mg/L	0.0010	110	90	110			
Sample ID: R08060403-001A	Sample Matrix Spike				Run: SUB-C104481			07/19/08 12:52	
Selenium-IV	0.052	mg/L	0.0010	103	85	115			
Sample ID: R08060403-001A	Sample Matrix Spike Duplicate				Run: SUB-C104481			07/19/08 12:54	
Selenium-IV	0.052	mg/L	0.0010	104	85	115	1.2	10	
Method: A3114 B								Batch: C_SE3114-080719D	
Sample ID: MBLK	Method Blank				Run: SUB-C104485			07/19/08 15:42	
Selenium	ND	mg/L	6E-05						
Sample ID: R08060403-001A	Sample Matrix Spike				Run: SUB-C104485			07/19/08 15:52	
Selenium	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08060403-001A	Sample Matrix Spike Duplicate				Run: SUB-C104485			07/19/08 15:54	
Selenium	0.053	mg/L	0.0010	104	85	115	4.2	10	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080722B	
Sample ID: MBLK	Method Blank				Run: SUB-C104619			07/22/08 10:52	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104619			07/22/08 10:55	
Selenium-IV	0.053	mg/L	0.0010	106	90	110			
Sample ID: R08060403-001H	Sample Matrix Spike				Run: SUB-C104619			07/22/08 11:32	
Selenium-IV	0.055	mg/L	0.0010	110	85	115			
Sample ID: R08060403-001H	Sample Matrix Spike Duplicate				Run: SUB-C104619			07/22/08 11:34	
Selenium-IV	0.054	mg/L	0.0010	108	85	115	1.5	10	
Method: A3114 B								Batch: C_SE3114-080722C	
Sample ID: MBLK	Method Blank				Run: SUB-C104640			07/22/08 14:38	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-106-2	Laboratory Control Sample				Run: SUB-C104640			07/22/08 14:40	
Selenium	0.052	mg/L	0.0010	104	90	110			
Sample ID: R08060403-001H	Sample Matrix Spike				Run: SUB-C104640			07/22/08 15:12	
Selenium	0.050	mg/L	0.0010	101	85	115			
Sample ID: R08060403-001H	Sample Matrix Spike Duplicate				Run: SUB-C104640			07/22/08 15:14	
Selenium	0.051	mg/L	0.0010	101	85	115	0.5	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080624-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.23	mg/L	0.0050	113	80	120			
Sample ID: R08060403-001E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.21	mg/L	0.0050	104	80	120			
Sample ID: R08060403-002E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.21	mg/L	0.0050	105	80	120			
Sample ID: R08060403-003E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.23	mg/L	0.0050	113	80	120			
Sample ID: R08060403-004E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	96	80	120			
Sample ID: R08060403-005E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.21	mg/L	0.0050	105	80	120			
Sample ID: R08060403-006E	Sample Matrix Spike				Run: SPEC1_080624B				06/24/08 00:00
Chromium, Hexavalent	0.22	mg/L	0.0050	109	80	120			
Method: A4500-H B								Batch: 080625_1_PH-W	
Sample ID: LCS_pH-1_080625	Laboratory Control Sample				Run: PH_COND2-R_080625A				06/25/08 13:53
pH	6.91	s.u.	0.010	101	98.55	101.45			
Sample ID: R08060405-001BDUP	Sample Duplicate				Run: PH_COND2-R_080625A				06/25/08 14:07
pH	7.69	s.u.	0.010				0.1	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-06-25_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080625A			06/25/08 14:58	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080625A			06/25/08 14:59	
Nitrogen, Ammonia as N	0.28	mg/L	0.10	113	90	110			S
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080625A			06/25/08 15:00	
Nitrogen, Ammonia as N	0.28	mg/L	0.10	110	90	110			
Sample ID: R08060354-002BMS	Sample Matrix Spike				Run: TECHAA2-R_080625A			06/25/08 15:04	
Nitrogen, Ammonia as N	ND	mg/L	0.10		80	120			S
Sample ID: R08060354-002BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080625A			06/25/08 15:05	
Nitrogen, Ammonia as N	ND	mg/L	0.10		80	120	0.0	10	S
Sample ID: R08060403-004FMS	Sample Matrix Spike				Run: TECHAA2-R_080625A			06/25/08 15:19	
Nitrogen, Ammonia as N	0.46	mg/L	0.10	107	80	120			
Sample ID: R08060403-004FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080625A			06/25/08 15:20	
Nitrogen, Ammonia as N	0.44	mg/L	0.10	100	80	120	4.0	10	
Sample ID: R08060427-001BMS	Sample Matrix Spike				Run: TECHAA2-R_080625A			06/25/08 15:45	
Nitrogen, Ammonia as N	0.43	mg/L	0.10	114	80	120			
Sample ID: R08060427-001BMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080625A			06/25/08 15:46	
Nitrogen, Ammonia as N	0.43	mg/L	0.10	112	80	120	0.7	10	
Method: A9222 D								Batch: 080624-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080624A			06/24/08 11:05	
Bacteria, Fecal Coliform	ND	CFU/100ml							
Sample ID: R08060404-001A	Sample Duplicate				Run: MEMFILT_080624A			06/24/08 11:05	
Bacteria, Fecal Coliform	4.0	CFU/100ml	2.0				0.0	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18997
Sample ID: MB-18997	Method Blank				Run: SUB-C103815				07/07/08 23:38
Aluminum	ND	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	ND	mg/L	0.005						
Zinc	0.002	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	0.4	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-18997	Laboratory Control Sample				Run: SUB-C103815				07/07/08 23:42
Aluminum	2.41	mg/L	0.10	96	85	115			
Barium	0.498	mg/L	0.10	100	85	115			
Boron	0.513	mg/L	0.10	103	85	115			
Chromium	0.511	mg/L	0.050	102	85	115			
Copper	0.505	mg/L	0.010	101	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Manganese	2.56	mg/L	0.010	102	85	115			
Molybdenum	0.502	mg/L	0.10	100	85	115			
Nickel	0.512	mg/L	0.050	102	85	115			
Vanadium	0.539	mg/L	0.10	108	85	115			
Zinc	0.505	mg/L	0.010	101	85	115			
Calcium	25.8	mg/L	1.0	103	85	115			
Magnesium	26.3	mg/L	1.0	105	85	115			
Potassium	25.7	mg/L	1.0	103	85	115			
Silica	6.24	mg/L	0.10	116	85	115			
Sodium	26.0	mg/L	1.0	104	85	115			
Sample ID: R08060403-006B	Sample Matrix Spike				Run: SUB-C103815				07/08/08 00:44
Aluminum	72.4	mg/L	0.10		70	130			A
Barium	0.704	mg/L	0.10	111	70	130			
Boron	0.639	mg/L	0.10	105	70	130			
Chromium	0.588	mg/L	0.050	107	70	130			
Copper	0.526	mg/L	0.010	101	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_18997
Sample ID: R08060403-006B	Sample Matrix Spike				Run: SUB-C103815				07/08/08 00:44
Iron	41.5	mg/L	0.030		70	130			A
Manganese	2.87	mg/L	0.010	101	70	130			
Molybdenum	0.476	mg/L	0.10	95	70	130			
Nickel	0.540	mg/L	0.050	100	70	130			
Vanadium	0.693	mg/L	0.10	109	70	130			
Zinc	0.585	mg/L	0.010	100	70	130			
Calcium	64.1	mg/L	1.0	98	70	130			
Magnesium	47.9	mg/L	1.0	110	70	130			
Potassium	54.3	mg/L	1.0	125	70	130			
Silica	86.7	mg/L	0.10		70	130			A
Sodium	45.9	mg/L	1.1	106	70	130			
Sample ID: R08060403-006B	Sample Matrix Spike Duplicate				Run: SUB-C103815				07/08/08 00:48
Aluminum	72.2	mg/L	0.10		70	130	0.4	20	A
Barium	0.718	mg/L	0.10	114	70	130	2.1	20	
Boron	0.646	mg/L	0.10	107	70	130	1.1	20	
Chromium	0.611	mg/L	0.050	112	70	130	3.7	20	
Copper	0.540	mg/L	0.010	104	70	130	2.6	20	
Iron	41.0	mg/L	0.030		70	130	1.4	20	A
Manganese	2.91	mg/L	0.010	102	70	130	1.3	20	
Molybdenum	0.491	mg/L	0.10	98	70	130	3.1	20	
Nickel	0.568	mg/L	0.050	106	70	130	4.9	20	
Vanadium	0.718	mg/L	0.10	114	70	130	3.6	20	
Zinc	0.602	mg/L	0.010	103	70	130	2.9	20	
Calcium	64.7	mg/L	1.0	100	70	130	1.0	20	
Magnesium	48.7	mg/L	1.0	113	70	130	1.6	20	
Potassium	54.2	mg/L	1.0	124	70	130	0.3	20	
Silica	93.1	mg/L	0.10		70	130	7.2	20	A
Sodium	45.5	mg/L	1.1	104	70	130	0.9	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R103608
Sample ID: MB-080701A	Method Blank				Run: SUB-C103608				07/01/08 14:04
Silica	ND	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	ND	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080701A	Laboratory Fortified Blank				Run: SUB-C103608				07/01/08 14:08
Silica	0.38	mg/L	0.10	95	85	125			
Aluminum	1.00	mg/L	0.10	100	85	125			
Barium	0.98	mg/L	0.10	98	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Calcium	52	mg/L	0.50	103	85	125			
Chromium	1.0	mg/L	0.050	101	85	125			
Copper	1.0	mg/L	0.010	101	85	125			
Iron	1.0	mg/L	0.030	105	85	125			
Magnesium	51	mg/L	0.50	102	85	125			
Manganese	1.00	mg/L	0.010	100	85	125			
Molybdenum	1.0	mg/L	0.10	100	85	125			
Nickel	1.0	mg/L	0.050	101	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Sodium	50	mg/L	0.77	100	85	125			
Vanadium	1.0	mg/L	0.10	101	85	125			
Zinc	1.0	mg/L	0.010	101	85	125			
Sample ID: C08061051-003CMS2	Sample Matrix Spike				Run: SUB-C103608				07/01/08 21:59
Aluminum	10.3	mg/L	0.10	101	70	130			
Barium	9.92	mg/L	0.10	97	70	130			
Boron	15.8	mg/L	0.10	100	70	130			
Chromium	10.2	mg/L	0.050	102	70	130			
Copper	10.1	mg/L	0.052	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R103608	
Sample ID: C08061051-003CMS2	Sample Matrix Spike				Run: SUB-C103608			07/01/08 21:59	
Iron	12.7	mg/L	0.047	109	70	130			
Manganese	11.5	mg/L	0.010	101	70	130			
Molybdenum	10.1	mg/L	0.10	101	70	130			
Nickel	9.88	mg/L	0.050	99	70	130			
Vanadium	10.6	mg/L	0.10	105	70	130			
Zinc	10.2	mg/L	0.022	102	70	130			
Calcium	760	mg/L	1.1	104	70	130			
Magnesium	571	mg/L	1.0	105	70	130			
Potassium	571	mg/L	1.0	84	70	130			
Silica	25.3	mg/L	0.21		70	130			A
Sodium	2710	mg/L	7.7		70	130			A
Sample ID: C08061051-003CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C103608			07/01/08 22:03	
Aluminum	9.67	mg/L	0.10	95	70	130	6.1	20	
Barium	9.55	mg/L	0.10	94	70	130	3.9	20	
Boron	15.7	mg/L	0.10	99	70	130	1.0	20	
Chromium	9.85	mg/L	0.050	99	70	130	3.1	20	
Copper	9.73	mg/L	0.052	97	70	130	3.4	20	
Iron	12.2	mg/L	0.047	104	70	130	4.0	20	
Manganese	11.0	mg/L	0.010	97	70	130	4.0	20	
Molybdenum	9.74	mg/L	0.10	97	70	130	3.6	20	
Nickel	9.58	mg/L	0.050	96	70	130	3.1	20	
Vanadium	10.3	mg/L	0.10	102	70	130	2.9	20	
Zinc	9.79	mg/L	0.022	98	70	130	4.5	20	
Calcium	754	mg/L	1.1	103	70	130	0.8	20	
Magnesium	555	mg/L	1.0	102	70	130	2.9	20	
Potassium	573	mg/L	1.0	84	70	130	0.4	20	
Silica	24.9	mg/L	0.21		70	130	1.6	20	A
Sodium	2770	mg/L	7.7		70	130	2.3	20	A
Sample ID: C08060805-001CMS2	Sample Matrix Spike				Run: SUB-C103608			07/01/08 22:52	
Aluminum	3.80	mg/L	0.10	83	70	130			
Barium	1.11	mg/L	0.10	100	70	130			
Boron	1.04	mg/L	0.10	101	70	130			
Chromium	1.04	mg/L	0.050	103	70	130			
Copper	1.04	mg/L	0.010	103	70	130			
Iron	2.85	mg/L	0.030	99	70	130			
Manganese	1.07	mg/L	0.010	103	70	130			
Molybdenum	0.927	mg/L	0.10	93	70	130			
Nickel	1.01	mg/L	0.050	101	70	130			
Vanadium	1.10	mg/L	0.10	103	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R103608	
Sample ID: C08060805-001CMS2	Sample Matrix Spike				Run: SUB-C103608			07/01/08 22:52	
Zinc	1.08	mg/L	0.010	105	70	130			
Calcium	66.3	mg/L	1.0	106	70	130			
Magnesium	56.8	mg/L	1.0	107	70	130			
Potassium	52.6	mg/L	1.0	89	70	130			
Silica	12.3	mg/L	0.10		70	130			A
Sodium	50.6	mg/L	1.0	100	70	130			
Sample ID: C08060805-001CMSD2	Sample Matrix Spike Duplicate				Run: SUB-C103608			07/01/08 22:56	
Aluminum	3.91	mg/L	0.10	94	70	130	2.9	20	
Barium	1.10	mg/L	0.10	98	70	130	1.1	20	
Boron	1.05	mg/L	0.10	102	70	130	0.4	20	
Chromium	1.03	mg/L	0.050	102	70	130	1.0	20	
Copper	1.02	mg/L	0.010	102	70	130	1.1	20	
Iron	2.81	mg/L	0.030	95	70	130	1.5	20	
Manganese	1.06	mg/L	0.010	102	70	130	0.8	20	
Molybdenum	0.958	mg/L	0.10	96	70	130	3.2	20	
Nickel	0.999	mg/L	0.050	100	70	130	1.4	20	
Vanadium	1.06	mg/L	0.10	99	70	130	3.5	20	
Zinc	1.08	mg/L	0.010	104	70	130	0.3	20	
Calcium	66.0	mg/L	1.0	105	70	130	0.5	20	
Magnesium	56.5	mg/L	1.0	107	70	130	0.5	20	
Potassium	53.0	mg/L	1.0	90	70	130	0.8	20	
Silica	12.1	mg/L	0.10		70	130	1.5	20	A
Sodium	50.2	mg/L	1.0	99	70	130	0.8	20	
Method: E200.7								Batch: C_R104315	
Sample ID: MB-080715A	Method Blank				Run: SUB-C104315			07/15/08 11:56	
Manganese	ND	mg/L	0.0003						
Sample ID: LFB-080715A	Laboratory Fortified Blank				Run: SUB-C104315			07/15/08 12:00	
Manganese	1.0	mg/L	0.010	103	85	125			
Sample ID: R08060403-003A	Sample Matrix Spike				Run: SUB-C104315			07/15/08 12:08	
Manganese	150	mg/L	0.010		70	130			A
Sample ID: R08060403-003A	Sample Matrix Spike Duplicate				Run: SUB-C104315			07/15/08 12:12	
Manganese	145	mg/L	0.010		70	130	3.2	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_18997
Sample ID: MB-18997	Method Blank				Run: SUB-C103823				07/07/08 16:51
Arsenic	0.0009	mg/L	5E-05						
Cadmium	ND	mg/L	3E-05						
Lead	0.006	mg/L							
Manganese	0.0003	mg/L	3E-05						
Silver	6E-05	mg/L	5E-05						
Thorium 232	0.0003	mg/L	7E-05						
Uranium	ND	mg/L	3E-05						
Sample ID: LCS3-18997	Laboratory Control Sample				Run: SUB-C103823				07/07/08 16:58
Arsenic	0.554	mg/L	0.0010	111	85	115			
Cadmium	0.270	mg/L	0.010	108	85	115			
Lead	0.562	mg/L	0.050	111	85	115			
Manganese	2.76	mg/L	0.010	110	85	115			
Silver	0.0448	mg/L	0.010	89	85	115			
Thorium 232	0.541	mg/L	0.0010	108	85	115			
Uranium	0.543	mg/L	0.00032	109	85	115			
Sample ID: R08060403-006B	Sample Matrix Spike				Run: SUB-C103823				07/07/08 18:33
Arsenic	0.638	mg/L	0.0010	125	70	130			
Cadmium	0.305	mg/L	0.010	122	70	130			
Lead	0.651	mg/L	0.050	122	70	130			
Manganese	3.47	mg/L	0.010	121	70	130			
Silver	0.0530	mg/L	0.010	106	70	130			
Thorium 232	0.640	mg/L	0.0010	125	70	130			
Uranium	0.630	mg/L	0.00032	126	70	130			
Sample ID: R08060403-006B	Sample Matrix Spike Duplicate				Run: SUB-C103823				07/07/08 18:40
Arsenic	0.632	mg/L	0.0010	124	70	130	0.8	20	
Cadmium	0.300	mg/L	0.010	120	70	130	1.7	20	
Lead	0.638	mg/L	0.050	120	70	130	2.0	20	
Manganese	3.47	mg/L	0.010	121	70	130	0.1	20	
Silver	0.0550	mg/L	0.010	110	70	130	3.8	20	
Thorium 232	0.623	mg/L	0.0010	122	70	130	2.6	20	
Uranium	0.614	mg/L	0.00032	122	70	130	2.6	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R103823	
Sample ID: LRB	Method Blank				Run: SUB-C103823			07/07/08 14:02	
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	7E-05	mg/L	3E-05						
Thorium 232	5E-05	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C103823			07/07/08 14:09	
Arsenic	0.0535	mg/L	0.0010	107	85	115			
Cadmium	0.0531	mg/L	0.0010	106	85	115			
Copper	0.0538	mg/L	0.0010	108	85	115			
Lead	0.0527	mg/L	0.0010	105	85	115			
Mercury	0.00523	mg/L	0.0010	105	85	115			
Silver	0.0210	mg/L	0.0010	105	85	115			
Thorium 232	0.0522	mg/L	0.0010	104	85	115			
Uranium	0.0516	mg/L	0.00030	103	85	115			
Sample ID: R08060403-006A	Post Digestion Spike				Run: SUB-C103823			07/07/08 16:11	
Arsenic	0.0525	mg/L	0.0010	103	70	130			
Cadmium	0.0498	mg/L	0.010	100	70	130			
Copper	0.0544	mg/L	0.010	97	70	130			
Lead	0.0497	mg/L	0.050	99	70	130			
Mercury	0.00494	mg/L	0.0010	99	70	130			
Silver	0.00980	mg/L	0.010	49	70	130			S
Thorium 232	0.0427	mg/L	0.0010	85	70	130			
Uranium	0.0497	mg/L	0.00030	98	70	130			
Sample ID: R08060403-006A	Post Digestion Spike Duplicate				Run: SUB-C103823			07/07/08 16:17	
Arsenic	0.0522	mg/L	0.0010	103	70	130	0.6	20	
Cadmium	0.0494	mg/L	0.010	99	70	130	0.8	20	
Copper	0.0539	mg/L	0.010	96	70	130	0.9	20	
Lead	0.0501	mg/L	0.050	100	70	130	0.8	20	
Mercury	0.00502	mg/L	0.0010	100	70	130	1.5	20	
Silver	0.00900	mg/L	0.010	45	70	130	0.0	20	S
Thorium 232	0.0443	mg/L	0.0010	88	70	130	3.7	20	
Uranium	0.0503	mg/L	0.00030	100	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: C_B_33393
Sample ID: MB-33393	Method Blank				Run: SUB-C104002				07/09/08 11:37
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33393	Laboratory Fortified Blank				Run: SUB-C104002				07/09/08 11:39
Mercury	0.0020	mg/L	0.0010	101	85	115			
Sample ID: B08070638-001BMS	Sample Matrix Spike				Run: SUB-C104002				07/09/08 12:07
Mercury	0.0022	mg/L	0.0010	108	70	130			
Sample ID: B08070638-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C104002				07/09/08 12:10
Mercury	0.0021	mg/L	0.0010	103	70	130	4.2	30	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R35666
Sample ID: LFB0806244901-3	Laboratory Fortified Blank				Run: DIONEX_080625A				06/25/08 09:56
Chloride	4.78	mg/L	0.50	96	90	110			
Fluoride	1.83	mg/L	0.10	92	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.2	mg/L	1.0	95	90	110			
Sample ID: LFB0806244901-4	Laboratory Fortified Blank				Run: DIONEX_080625A				06/25/08 10:13
Chloride	4.81	mg/L	0.50	96	90	110			
Fluoride	1.85	mg/L	0.10	93	90	110			
Nitrogen, Nitrate as N	2.36	mg/L	0.10	94	90	110			
Sulfate	14.3	mg/L	1.0	96	90	110			
Sample ID: R08060394-001BMS	Sample Matrix Spike				Run: DIONEX_080625A				06/25/08 10:45
Chloride	231	mg/L	0.50		80	120			A
Fluoride	2.74	mg/L	0.10	95	80	120			
Nitrogen, Nitrate as N	2.56	mg/L	0.10	95	80	120			
Sulfate	56.8	mg/L	1.0	77	80	120			S
Sample ID: R08060394-001BMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080625A				06/25/08 11:02
Chloride	233	mg/L	0.50		80	120	1.0	10	A
Fluoride	2.62	mg/L	0.10	89	80	120	4.5	10	
Nitrogen, Nitrate as N	2.40	mg/L	0.10	89	80	120	6.5	10	
Sulfate	55.9	mg/L	1.0	71	80	120	1.6	10	S
Sample ID: R08060403-004CMS	Sample Matrix Spike				Run: DIONEX_080625A				06/25/08 14:02
Chloride	241	mg/L	5.4	88	80	120			
Fluoride	94.5	mg/L	0.56	88	80	120			
Nitrogen, Nitrate as N	118	mg/L	1.3	94	80	120			
Sulfate	817	mg/L	3.4	86	80	120			
Sample ID: R08060403-004CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080625A				06/25/08 14:19
Chloride	235	mg/L	5.4	86	80	120	2.6	10	
Fluoride	91.9	mg/L	0.56	85	80	120	2.8	10	
Nitrogen, Nitrate as N	115	mg/L	1.3	92	80	120	2.5	10	
Sulfate	798	mg/L	3.4	84	80	120	2.3	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0479	
Sample ID: MB-GrAB-0479	Method Blank				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	2	pCi/L							
Gross Beta	-0.9	pCi/L							U
Sample ID: UNAT-GrAB-0479	Laboratory Control Sample				Run: SUB-C104549			07/19/08 01:29	
Gross Alpha	130	pCi/L		90	70	130			
Sample ID: Cs137-GrAB-0479	Laboratory Control Sample				Run: SUB-C104549			07/19/08 01:30	
Gross Beta	91	pCi/L		98	70	130			
Sample ID: C08061394-007HMS	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	160	pCi/L		115	70	130			
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Alpha	150	pCi/L		107	70	130	7.6	15.2	
Sample ID: C08061394-007HMS	Sample Matrix Spike				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	93	pCi/L		97	70	130			
Sample ID: C08061394-007HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104549			07/19/08 22:57	
Gross Beta	89	pCi/L		93	70	130	4.2	16	
Method: E901.1								Batch: C_R104392	
Sample ID: LCS-R104392	Laboratory Control Sample				Run: SUB-C104392			07/14/08 11:00	
Cesium 137	450000	pCi/L	20	104	70	130			
Cobalt 60	330000	pCi/L	20	104	70	130			
Sample ID: MB-R104392	Method Blank				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L							U
Sample ID: R08060403-006I	Sample Duplicate				Run: SUB-C104392			07/14/08 11:00	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_19014
Sample ID: C08061333-004IMS	Sample Matrix Spike				Run: SUB-C104316				07/15/08 21:56
Radium 226	140	pCi/L		92	70	130			
Sample ID: C08061333-004IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104316				07/15/08 21:56
Radium 226	150	pCi/L		95	70	130	3.6	24.2	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C104316				07/16/08 01:53
Radium 226	13	pCi/L		94	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C104316				07/16/08 01:53
Radium 226	-2	pCi/L							U
Method: E903.0									Batch: C_RA226-2910
Sample ID: C08060835-001AMS	Sample Matrix Spike				Run: SUB-C104390				07/09/08 08:06
Radium 226	12	pCi/L		94	70	130			
Sample ID: C08060835-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C104390				07/09/08 08:06
Radium 226	12	pCi/L		88	70	130	5.8	24.8	
Sample ID: MB-RA226-2910	Method Blank				Run: SUB-C104390				07/09/08 12:50
Radium 226	-0.2	pCi/L							U
Sample ID: LCS-RA226-2910	Laboratory Control Sample				Run: SUB-C104390				07/09/08 12:50
Radium 226	7.3	pCi/L		95	70	130			
Method: E907.0									Batch: C_19014
Sample ID: C08061394-007IMS	Sample Matrix Spike				Run: SUB-C104248				07/11/08 17:06
Thorium 230	21.4	pCi/L	0.20	92	70	130			
Sample ID: C08061394-007IMSD	Sample Matrix Spike Duplicate				Run: SUB-C104248				07/11/08 17:07
Thorium 230	19.9	pCi/L	0.20	90	70	130	7.4	30	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C104248				07/11/08 17:07
Thorium 230	46.6	pCi/L	0.20	98	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C104248				07/11/08 17:07
Thorium 230	-0.08	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0								Batch: C_RA-TH-ISO-0571	
Sample ID: LCS-RA-TH-ISO-0571	Laboratory Control Sample				Run: SUB-C104913			07/21/08 21:24	
Thorium 230	6.31	pCi/L	0.20	103	70	130			
Sample ID: C08061333-002HMS	Sample Matrix Spike				Run: SUB-C104913			07/21/08 21:24	
Thorium 230	15.3	pCi/L	0.20	94	70	130			
Sample ID: C08061333-002HMSD	Sample Matrix Spike Duplicate				Run: SUB-C104913			07/21/08 21:24	
Thorium 230	16.6	pCi/L	0.20	103	70	130	8.4	30	
Sample ID: MB-RA-TH-ISO-0571	Method Blank				Run: SUB-C104913			07/23/08 22:41	
Thorium 230	0.03	pCi/L							U
Method: E909.0M								Batch: C_19014	
Sample ID: C08061394-001IMS	Sample Matrix Spike				Run: SUB-C105485			07/08/08 06:20	
Lead 210	150	pCi/L		52	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: C08061394-001IMSD	Sample Matrix Spike Duplicate				Run: SUB-C105485			07/08/08 06:20	
Lead 210	230	pCi/L		78	70	130	38	30	R
Sample ID: MB-R105485	Method Blank				Run: SUB-C105485			07/08/08 06:20	
Lead 210	4	pCi/L							U
Sample ID: LCS-R105485	Laboratory Control Sample				Run: SUB-C105485			07/08/08 06:20	
Lead 210	140	pCi/L		115	70	130			
Method: E909.0M								Batch: C_R105221	
Sample ID: R08060403-003J	Sample Duplicate				Run: SUB-C105221			07/10/08 10:10	
Lead 210	3.6	pCi/L					280	30	UR
Sample ID: R08060403-001J	Sample Matrix Spike				Run: SUB-C105221			07/10/08 10:10	
Lead 210	480	pCi/L		82	70	130			
Sample ID: R08060403-001J	Sample Matrix Spike Duplicate				Run: SUB-C105221			07/10/08 10:10	
Lead 210	560	pCi/L		94	70	130	14	30	
Sample ID: MB-R105221	Method Blank				Run: SUB-C105221			07/10/08 10:10	
Lead 210	2	pCi/L							U
Sample ID: LCS-R105221	Laboratory Control Sample				Run: SUB-C105221			07/10/08 10:10	
Lead 210	94	pCi/L		78	70	130			

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
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

Client: RESPEC Inc
Project: Edgemont

Report Date: 08/21/08
Work Order: R08060403

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008								Batch: C_19014	
Sample ID: C08061292-001BMS	Sample Matrix Spike				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	18	pCi/L	1.0	124	70	130			
Sample ID: C08061292-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	15	pCi/L	1.0	104	70	130	18	30	
Sample ID: LCS-19014	Laboratory Control Sample				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	84	pCi/L	1.0	101	70	130			
Sample ID: MB-19014	Method Blank				Run: SUB-C106196			08/18/08 17:00	
Polonium 210	1	pCi/L							
Method: RMO-3008								Batch: C_R104448	
Sample ID: R08060403-003J	Sample Matrix Spike				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	79	pCi/L	1.0	91	70	130			
Sample ID: R08060403-003J	Sample Matrix Spike Duplicate				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	60	pCi/L	1.0	69	70	130	28	30	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: LCS-R104448	Laboratory Control Sample				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	36	pCi/L	1.0	83	70	130			
Sample ID: MB-R104448	Method Blank				Run: SUB-C104448			07/10/08 21:30	
Polonium 210	ND	pCi/L							U
Method: SW7470A								Analytical Run: SUB-C104002	
Sample ID: QCS	Initial Calibration Verification Standard							07/09/08 07:00	
Mercury	0.0020	mg/L	0.0010	101	90	110			

Qualifiers:

RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: RESPEC

Project Name, PWS, Permit, Etc.: Powertech Dewey Burdock

Sample Origin State: SD

EPA/State Compliance: Yes ☐ No ☐

Report Mail Address: RESPEC

Contact Name: Cory. foreman @ respec.com

Phone/Fax:

Email:

Sampler: (Please Print) Eric Krantz

Invoice Address:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

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

☐ DW ☐ GSA ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____

☐ A2LA ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC

ANALYSIS REQUESTED

Number of Containers; Sample Type: A W S V B O; Air Water Solids/Solids Vegetation Bioassay Other

As per Quote + Pb + Po

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: All SW

Shipped by:

Cooler ID(s):

Receipt Temp 6 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX												LABORATORY USE ONLY
1	Dew Burd Sub 08	6/23/08	12:20	W										Sundance Pond W. Set 7		B0806403-001
2	Dew Burd Sub 09	6/23/08	12:50	W										Sundance Pond E. set 10		002
3	Dew Burd Sub 06	6/23/08	13:45	W										Darrow Pit Set 16		003
4	Dew Burd Sub 07	6/23/08	14:30	W										Daniel Ranch North Set 2		004
5	~~Dew Burd Sub 15~~													~~Daniel Ranch South Set 1~~		~~005~~
6	Dew Burd Sub 11	6/23/08	15:10	W										Daniel Ranch South Set 1		005
7	Dew Burd Sub 10	6/23/08	16:25	W										narrow road dam Set 13		006
8																
9																
10																

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	6/24/08 05:45	[signature]	J. Hartman	6/24/08 800	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

October 02, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070340 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 2 samples from RESPEC Inc on 7/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070340-001	DewBurd PSC01	07/18/08 12:40	07/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Bacteria, Fecal Coliform
					Conductivity
					Chromium, Hexavalent
					Chromium, Trivalent
					Mercury, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium, Total
					Selenium, Dissolved
					Selenium-VI, Total
					Anions by Ion Chromatography
					Nitrogen, Ammonia
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, Total Metals
					Digestion, As/Se by Hydride
					Dissolved Filtration
					Digestion, Mercury by CVAA
					Gross Alpha, Gross Beta
					Gross Gamma
					Lead 210, Dissolved
					Lead 210, Suspended
					Lead 210, Total
					Polonium 210, Dissolved
					Polonium 210, Suspended
					Polonium 210, Total
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Thorium, Isotopic
					Sodium Adsorption Ratio
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended
R08070340-002	DewBurd PSC02	07/18/08 14:25	07/19/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070340

Date: 02-Oct-08

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/19/2008 2:00:00 PM. These samples were assigned ELI Workorder Number R08070340.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except where noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Nitrates were run out of hold due to the date the samples were received, short notice of receiving date, and the analyst responsible for running the samples being unavailable.

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08071003
ANALYTICAL COMMENTS
The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of 5 pCi/L if there is sufficient sample to process 1.0 L, and this is reported on a sample specific basis.
End of comments imported for SUBBED Workorder: C08071003

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-001
Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
Collection Date: 07/18/08 12:40
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	3700	CFU/100ml	D	100		100	A9222 D	07/19/08 14:20/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	62	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Bicarbonate as HCO3	76	mg/L		5		1	A2320 B	07/22/08 10:26/mb
Calcium	459	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 19:21/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 19:21/jmh
Magnesium	12.5	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Nitrogen, Ammonia as N	0.1	mg/L		0.1		1	A4500-NH3 G	07/21/08 13:33/jmh
Nitrogen, Nitrate as N	0.6	mg/L	H	0.1		1	E300.0	07/21/08 19:21/jmh
Potassium	7	mg/L		1		2	E200.7	08/04/08 15:00/eli-c
Silica	1.7	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Sodium	2.6	mg/L		0.5		2	E200.7	08/04/08 15:00/eli-c
Sulfate	977	mg/L	D	3		50	E300.0	07/21/08 18:31/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1750	umhos/cm		5.0		1	A2510 B	07/22/08 09:57/tb
pH	7.24	s.u.		0.01		1	A4500-H B	07/22/08 09:19/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/25/08 08:17/ADM
Solids, Suspended Sediment SSC @ 105 C	4490	mg/L		5		1	D3977	07/28/08 10:10/mb
Solids, Total Dissolved TDS @ 180 C	1600	mg/L		5		1	A2540 C	07/23/08 11:44/mb
Solids, Total Suspended TSS @ 105 C	3700	mg/L		5		1	A2540 D	07/21/08 15:05/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Barium	0.1	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Chromium	0.02	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 01:54/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	08/04/08 15:00/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Manganese	0.04	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 01:54/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Nickel	0.03	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-001
Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
Collection Date: 07/18/08 12:40
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 01:54/eli-c
Uranium	0.0050	mg/L		0.0003		1	E200.8	08/05/08 01:54/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	08/04/08 15:00/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	08/04/08 15:00/eli-c
METALS - SUSPENDED								
Thorium 232	0.001	mg/L		0.001		1	E200.8	07/27/08 05:27/eli-c
Uranium	0.0005	mg/L		0.0003		1	E200.8	07/27/08 05:27/eli-c
METALS - TOTAL								
Aluminum	85.9	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Arsenic	0.031	mg/L		0.001		1	E200.8	08/04/08 20:02/eli-c
Barium	0.8	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Boron	0.3	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Chromium	0.17	mg/L		0.05		2	E200.7	07/25/08 21:33/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	07/19/08 00:00/mb
Chromium, Trivalent	0.17	mg/L		0.01		1	Calculation	09/25/08 00:00/jmh
Copper	0.10	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Iron	128	mg/L	D	0.2		2	E200.7	07/25/08 21:33/eli-c
Lead	0.074	mg/L		0.001		1	E200.8	08/04/08 20:02/eli-c
Manganese	2.55	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Nickel	0.15	mg/L		0.05		2	E200.7	07/25/08 21:33/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Thorium 232	0.020	mg/L		0.005		1	E200.8	08/04/08 20:02/eli-c
Uranium	0.0252	mg/L		0.0003		1	E200.8	08/04/08 20:02/eli-c
Vanadium	0.1	mg/L		0.1		2	E200.7	07/25/08 21:33/eli-c
Zinc	0.34	mg/L		0.01		2	E200.7	07/25/08 21:33/eli-c
Calcium	664	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Magnesium	164	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Potassium	46.1	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Silica	49.2	mg/L		0.5		2	E200.7	07/25/08 21:33/eli-c
Sodium	3	mg/L	D	1		2	E200.7	07/25/08 21:33/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/11/08 16:36/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 13:55/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-001
Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
Collection Date: 07/18/08 12:40
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	08/11/08 16:53/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:15/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	2.2	pCi/L	U			1	E909.0M	08/11/08 10:51/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Polonium 210	0.7	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.70	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	08/19/08 01:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/20/08 17:24/eli-c
Thorium 230 precision (±)	0.04	pCi/L				1	E907.0	08/20/08 17:24/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	0.9	pCi/L	U			1	E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.33	pCi/L				1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	0.1	pCi/L	U			1	E903.0	08/11/08 11:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	08/10/08 17:23/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/10/08 17:23/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.5	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Alpha precision (±)	6.9	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Alpha MDC	10.7	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta	1.4	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Beta precision (±)	6.9	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta MDC	11.5	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Gamma	0	pCi/L	U	20.0		1	E901.1	08/08/08 07:23/eli-c

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-001
Client Sample ID: DewBurd PSC01

Report Date: 10/01/08
Collection Date: 07/18/08 12:40
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	3	pCi/L	U			1	E909.0M	09/24/08 17:25/eli-c
Lead 210 precision (±)	8	pCi/L				1	E909.0M	09/24/08 17:25/eli-c
Lead 210 MDC	14	pCi/L				1	E909.0M	09/24/08 17:25/eli-c
Polonium 210	1.0	pCi/L	U	1.0		1	RMO-3008	09/24/08 17:25/eli-c
Polonium 210 precision (±)	0.77	pCi/L				1	RMO-3008	09/24/08 17:25/eli-c
Radium 226	0.2	pCi/L	U			1	E903.0	09/24/08 17:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/24/08 17:25/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	09/24/08 17:25/eli-c
Thorium 230	0.5	pCi/L		0.2		1	E907.0	09/24/08 17:25/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/24/08 17:25/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:11/eli-b
DATA QUALITY								
A/C Balance (± 5)	5.55	%				1	A1030 E	09/25/08 00:00/jmh
Anions	21.7	meq/L				1	A1030 E	09/25/08 00:00/jmh
Cations	24.2	meq/L				1	A1030 E	09/25/08 00:00/jmh
Solids, Total Dissolved Calculated	1510	mg/L				1	A1030 E	09/25/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	09/25/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-002
Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
Collection Date: 07/18/08 14:25
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MICROBIOLOGICAL								
Bacteria, Fecal Coliform	7500	CFU/100ml	D	100		100	A9222 D	07/19/08 14:20/tb
MAJOR IONS								
Alkalinity, Total as CaCO3	60	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Bicarbonate as HCO3	73	mg/L		5		1	A2320 B	07/22/08 10:30/mb
Calcium	439	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 19:54/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 19:54/jmh
Magnesium	10.1	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Nitrogen, Ammonia as N	0.2	mg/L		0.1		1	A4500-NH3 G	07/21/08 13:37/jmh
Nitrogen, Nitrate as N	0.6	mg/L	H	0.1		1	E300.0	07/21/08 19:54/jmh
Potassium	6	mg/L		1		2	E200.7	08/04/08 15:08/eli-c
Silica	1.8	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Sodium	1.7	mg/L		0.5		2	E200.7	08/04/08 15:08/eli-c
Sulfate	909	mg/L	D	3		50	E300.0	07/21/08 19:37/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1520	umhos/cm		5.0		1	A2510 B	07/22/08 09:58/tb
pH	7.34	s.u.		0.01		1	A4500-H B	07/22/08 09:20/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/25/08 08:17/ADM
Solids, Suspended Sediment SSC @ 105 C	2370	mg/L		5		1	D3977	07/28/08 10:12/mb
Solids, Total Dissolved TDS @ 180 C	1500	mg/L		5		1	A2540 C	07/23/08 11:45/mb
Solids, Total Suspended TSS @ 105 C	2000	mg/L		5		1	A2540 D	07/21/08 15:06/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Arsenic	0.002	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Barium	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Chromium	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 02:01/eli-c
Iron	ND	mg/L		0.03		2	E200.7	08/04/08 15:08/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Manganese	0.03	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 02:01/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Nickel	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
H - Analysis performed past recommended holding time.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-002
Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
Collection Date: 07/18/08 14:25
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Silver	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 02:01/eli-c
Uranium	0.0007	mg/L		0.0003		1	E200.8	08/05/08 02:01/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	08/04/08 15:08/eli-c
Zinc	ND	mg/L		0.01		2	E200.7	08/04/08 15:08/eli-c
METALS - SUSPENDED								
Thorium 232	0.002	mg/L		0.001		1	E200.8	07/27/08 05:31/eli-c
Uranium	0.0009	mg/L		0.0003		1	E200.8	07/27/08 05:31/eli-c
METALS - TOTAL								
Aluminum	58.7	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Arsenic	0.018	mg/L		0.001		1	E200.8	08/04/08 20:09/eli-c
Barium	0.5	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Boron	0.2	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Chromium	0.10	mg/L		0.05		2	E200.7	07/25/08 21:49/eli-c
Chromium, Hexavalent	ND	mg/L		0.005		1	A3500-Cr B	07/19/08 00:00/mb
Chromium, Trivalent	0.10	mg/L		0.01		1	Calculation	09/25/08 00:00/jmh
Copper	0.06	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Iron	75.7	mg/L		0.03		2	E200.7	07/25/08 21:49/eli-c
Lead	0.040	mg/L		0.001		1	E200.8	08/04/08 20:09/eli-c
Manganese	1.48	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Molybdenum	ND	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Nickel	0.09	mg/L		0.05		2	E200.7	07/25/08 21:49/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Thorium 232	0.012	mg/L		0.005		1	E200.8	08/04/08 20:09/eli-c
Uranium	0.0057	mg/L		0.0007		1	E200.8	08/04/08 20:09/eli-c
Vanadium	ND	mg/L		0.1		2	E200.7	07/25/08 21:49/eli-c
Zinc	0.19	mg/L		0.01		2	E200.7	07/25/08 21:49/eli-c
Calcium	516	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Magnesium	97.7	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Potassium	30.1	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Silica	51.9	mg/L		0.5		2	E200.7	07/25/08 21:49/eli-c
Sodium	2	mg/L	D	1		2	E200.7	07/25/08 21:49/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/11/08 16:42/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:05/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-002
Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
Collection Date: 07/18/08 14:25
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED - SPECIATED								
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
METALS - TOTAL - SPECIATED								
Selenium	ND	mg/L		0.001		1	A3114 B	08/11/08 16:59/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/11/08 14:21/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/11/08 16:55/eli-c
RADIONUCLIDES - DISSOLVED								
Lead 210	1.7	pCi/L	U			1	E909.0M	08/11/08 10:51/eli-c
Lead 210 precision (±)	4.5	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Lead 210 MDC	7.4	pCi/L				1	E909.0M	08/11/08 10:51/eli-c
Polonium 210	0.2	pCi/L	U	1.0		1	RMO-3008	08/21/08 17:30/eli-c
Polonium 210 precision (±)	0.50	pCi/L				1	RMO-3008	08/21/08 17:30/eli-c
Radium 226	-0.04	pCi/L	U			1	E903.0	08/19/08 01:59/eli-c
Radium 226 precision (±)	0.1	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Radium 226 MDC	0.2	pCi/L				1	E903.0	08/19/08 01:59/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/20/08 17:24/eli-c
Thorium 230 precision (±)	0.05	pCi/L				1	E907.0	08/20/08 17:24/eli-c
RADIONUCLIDES - SUSPENDED								
Lead 210	-0.8	pCi/L	U			1	E909.0M	08/11/08 09:30/eli-c
Lead 210 precision (±)	7.0	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Lead 210 MDC	11.8	pCi/L				1	E909.0M	08/11/08 09:30/eli-c
Polonium 210	0.3	pCi/L	U	1.0		1	RMO-3008	08/08/08 14:06/eli-c
Polonium 210 precision (±)	0.31	pCi/L				1	RMO-3008	08/08/08 14:06/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	08/11/08 11:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	08/11/08 11:25/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	08/10/08 17:23/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	08/10/08 17:23/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	4.2	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Alpha precision (±)	5.7	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Alpha MDC	9.0	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta	-7	pCi/L	U			1	E900.0	09/04/08 18:47/eli-c
Gross Beta precision (±)	5.4	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Beta MDC	9.2	pCi/L				1	E900.0	09/04/08 18:47/eli-c
Gross Gamma	0	pCi/L	U	20.0		1	E901.1	08/08/08 07:23/eli-c

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

ENERGY LABORATORIES

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070340-002
Client Sample ID: DewBurd PSC02

Report Date: 10/01/08
Collection Date: 07/18/08 14:25
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - TOTAL								
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Lead 210	0	pCi/L	U			1	E909.0M	09/24/08 17:25/eli-c
Lead 210 precision (±)	8	pCi/L				1	E909.0M	09/24/08 17:25/eli-c
Lead 210 MDC	14	pCi/L				1	E909.0M	09/24/08 17:25/eli-c
Polonium 210	0.5	pCi/L	U	1.0		1	RMO-3008	09/24/08 17:25/eli-c
Polonium 210 precision (±)	0.59	pCi/L				1	RMO-3008	09/24/08 17:25/eli-c
Radium 226	-0.2	pCi/L	U			1	E903.0	09/24/08 17:25/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	09/24/08 17:25/eli-c
Radium 226 MDC	0.6	pCi/L				1	E903.0	09/24/08 17:25/eli-c
Thorium 230	0.2	pCi/L	U	0.2		1	E907.0	09/24/08 17:25/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/24/08 17:25/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:23/eli-b
DATA QUALITY								
A/C Balance (± 5)	6.31	%				1	A1030 E	09/25/08 00:00/jmh
Anions	20.2	meq/L				1	A1030 E	09/25/08 00:00/jmh
Cations	23.0	meq/L				1	A1030 E	09/25/08 00:00/jmh
Solids, Total Dissolved Calculated	1410	mg/L				1	A1030 E	09/25/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.07					1	A1030 E	09/25/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080722A-ALK-SEL-W	
Sample ID: LCS1_080722A	Laboratory Control Sample				Run: PH_COND1-R_080722A			07/22/08 08:58	
Alkalinity, Total as CaCO3	948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080722A	Method Blank				Run: PH_COND1-R_080722A			07/22/08 08:59	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B								Batch: 080722_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:53	
Conductivity @ 25 C	1430	umhos/cm	5.0	101	90	110			
Sample ID: LCS1-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:54	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:55	
Conductivity @ 25 C	5140	umhos/cm	5.0	103	90	110			
Sample ID: MBLK-1_080722	Method Blank				Run: PH_COND2-R_080722C			07/22/08 09:56	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08070357-001BDUP	Sample Duplicate				Run: PH_COND2-R_080722C			07/22/08 10:07	
Conductivity @ 25 C	666	umhos/cm	5.0				0.9	10	
Method: A2540 C								Batch: 080723A-SLDS-TDS-W	
Sample ID: LCS1_080723A	Laboratory Control Sample				Run: BAL-4-R_080724B			07/23/08 11:36	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080723A	Method Blank				Run: BAL-4-R_080724B			07/23/08 11:37	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	96	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	110	80	120	1.5	10	
Method: A2540 D								Batch: 080721A-SLDS-TSS-W	
Sample ID: LCS1_080721A	Laboratory Control Sample				Run: BAL-4-R_080721B			07/21/08 14:54	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: MBLK1_080721A	Method Blank				Run: BAL-4-R_080721B			07/21/08 14:55	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08070340-002CDUP	Sample Duplicate				Run: BAL-4-R_080721B			07/21/08 15:06	
Solids, Total Suspended TSS @ 105 C	2100	mg/L	5.0				4.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-080811B	
Sample ID: MBLK	Method Blank				Run: SUB-C105689			08/11/08 13:51	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105689			08/11/08 13:53	
Selenium-IV	0.053	mg/L	0.0010	107	90	110			
Sample ID: R08070340-001A	Sample Matrix Spike				Run: SUB-C105689			08/11/08 14:00	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08070340-001A	Sample Matrix Spike Duplicate				Run: SUB-C105689			08/11/08 14:02	
Selenium-IV	0.049	mg/L	0.0010	97	85	115	2.6	10	
Sample ID: R08070340-001H	Sample Matrix Spike				Run: SUB-C105689			08/11/08 14:17	
Selenium-IV	0.050	mg/L	0.0010	100	85	115			
Sample ID: R08070340-001H	Sample Matrix Spike Duplicate				Run: SUB-C105689			08/11/08 14:19	
Selenium-IV	0.050	mg/L	0.0010	100	85	115	0.6	10	
Method: A3114 B								Batch: C_SE3114-080811C	
Sample ID: MBLK	Method Blank				Run: SUB-C105710			08/11/08 16:23	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-114-6	Laboratory Control Sample				Run: SUB-C105710			08/11/08 16:32	
Selenium	0.054	mg/L	0.0010	107	90	110			
Sample ID: R08070340-001A	Sample Matrix Spike				Run: SUB-C105710			08/11/08 16:38	
Selenium	0.054	mg/L	0.0010	108	85	115			
Sample ID: R08070340-001A	Sample Matrix Spike Duplicate				Run: SUB-C105710			08/11/08 16:40	
Selenium	0.054	mg/L	0.0010	107	85	115	0.9	10	
Sample ID: R08070340-001H	Sample Matrix Spike				Run: SUB-C105710			08/11/08 16:55	
Selenium	0.052	mg/L	0.0010	105	85	115			
Sample ID: R08070340-001H	Sample Matrix Spike Duplicate				Run: SUB-C105710			08/11/08 16:57	
Selenium	0.052	mg/L	0.0010	105	85	115	0.3	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3500-Cr B								Batch: 080719-CR-HEX-W	
Sample ID: MBLK	Method Blank				Run: SPEC1_080719B				07/19/08 00:00
Chromium, Hexavalent	ND	mg/L	0.005						
Sample ID: LCS	Laboratory Control Sample				Run: SPEC1_080719B				07/19/08 00:00
Chromium, Hexavalent	0.20	mg/L	0.0050	100	80	120			
Sample ID: R08070340-001E	Sample Matrix Spike				Run: SPEC1_080719B				07/19/08 00:00
Chromium, Hexavalent	0.17	mg/L	0.0050	85	80	120			
Sample ID: R08070340-002E	Sample Matrix Spike				Run: SPEC1_080719B				07/19/08 00:00
Chromium, Hexavalent	0.19	mg/L	0.0050	95	80	120			
Method: A4500-H B								Batch: 080722_1_PH-W	
Sample ID: LCS_pH-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722A				07/22/08 09:14
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08070352-003CDUP	Sample Duplicate				Run: PH_COND2-R_080722A				07/22/08 09:33
pH	7.83	s.u.	0.010				0	1.25	
Method: A4500-NH3 G								Batch: A2008-07-21_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080721A				07/21/08 10:11
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-3	Laboratory Fortified Blank				Run: TECHAA2-R_080721A				07/21/08 10:12
Nitrogen, Ammonia as N	0.25	mg/L	0.10	99	90	110			
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080721A				07/21/08 10:13
Nitrogen, Ammonia as N	0.24	mg/L	0.10	96	90	110			
Sample ID: R08070340-002FMS	Sample Matrix Spike				Run: TECHAA2-R_080721A				07/21/08 13:38
Nitrogen, Ammonia as N	0.44	mg/L	0.10	115	80	120			
Sample ID: R08070340-002FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080721A				07/21/08 13:39
Nitrogen, Ammonia as N	0.43	mg/L	0.10	113	80	120	1.1	10	
Method: A9222 D								Batch: 080719-BCT-FCB-W-MF	
Sample ID: MBLK	Method Blank				Run: MEMFILT_080717B				07/19/08 14:20
Bacteria, Fecal Coliform	ND	CFU/100ml	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19227
Sample ID: MB-19227	Method Blank				Run: SUB-C104879				07/25/08 20:57
Aluminum	0.004	mg/L	0.002						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.01						
Chromium	ND	mg/L	0.004						
Copper	ND	mg/L	0.005						
Iron	ND	mg/L	0.009						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.007						
Nickel	ND	mg/L	0.005						
Vanadium	ND	mg/L	0.005						
Zinc	ND	mg/L	0.001						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Silica	ND	mg/L	0.01						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19227	Laboratory Control Sample				Run: SUB-C104879				07/25/08 21:01
Aluminum	2.32	mg/L	0.10	93	85	115			
Barium	0.491	mg/L	0.10	98	85	115			
Boron	0.486	mg/L	0.10	97	85	115			
Chromium	0.487	mg/L	0.050	97	85	115			
Copper	0.488	mg/L	0.010	98	85	115			
Iron	2.51	mg/L	0.030	100	85	115			
Manganese	2.47	mg/L	0.010	99	85	115			
Molybdenum	0.487	mg/L	0.10	97	85	115			
Nickel	0.483	mg/L	0.050	97	85	115			
Vanadium	0.431	mg/L	0.10	86	85	115			
Zinc	0.488	mg/L	0.010	98	85	115			
Calcium	25.3	mg/L	1.0	101	85	115			
Magnesium	25.0	mg/L	1.0	100	85	115			
Potassium	24.6	mg/L	1.0	98	85	115			
Silica	5.25	mg/L	0.10	105	85	115			
Sodium	24.2	mg/L	1.0	97	85	115			
Sample ID: C08071066-001HMS3	Sample Matrix Spike				Run: SUB-C104879				07/25/08 22:22
Aluminum	3.03	mg/L	0.10	109	70	130			
Barium	0.568	mg/L	0.10	102	70	130			
Boron	0.673	mg/L	0.10	105	70	130			
Chromium	0.507	mg/L	0.050	101	70	130			
Copper	0.527	mg/L	0.010	105	70	130			
Iron	3.13	mg/L	0.030	109	70	130			
Manganese	2.77	mg/L	0.010	102	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19227
Sample ID: C08071066-001HMS3	Sample Matrix Spike				Run: SUB-C104879				07/25/08 22:22
Molybdenum	0.517	mg/L	0.10	103	70	130			
Nickel	0.514	mg/L	0.050	100	70	130			
Vanadium	0.502	mg/L	0.10	100	70	130			
Zinc	0.801	mg/L	0.010	106	70	130			
Calcium	186	mg/L	1.0		70	130			A
Magnesium	73.9	mg/L	1.0	109	70	130			
Potassium	36.9	mg/L	1.0	99	70	130			
Silica	14.0	mg/L	0.10	123	70	130			
Sodium	89.3	mg/L	1.1	113	70	130			
Sample ID: C08071066-001HMSD3	Sample Matrix Spike Duplicate				Run: SUB-C104879				07/25/08 22:26
Aluminum	2.75	mg/L	0.10	98	70	130	9.7	20	
Barium	0.561	mg/L	0.10	101	70	130	1.2	20	
Boron	0.650	mg/L	0.10	101	70	130	3.5	20	
Chromium	0.494	mg/L	0.050	99	70	130	2.6	20	
Copper	0.509	mg/L	0.010	102	70	130	3.4	20	
Iron	3.06	mg/L	0.030	106	70	130	2.1	20	
Manganese	2.72	mg/L	0.010	101	70	130	1.7	20	
Molybdenum	0.507	mg/L	0.10	101	70	130	1.8	20	
Nickel	0.497	mg/L	0.050	97	70	130	3.5	20	
Vanadium	0.469	mg/L	0.10	94	70	130	6.8	20	
Zinc	0.778	mg/L	0.010	102	70	130	2.9	20	
Calcium	185	mg/L	1.0		70	130	0.9	20	A
Magnesium	73.9	mg/L	1.0	109	70	130	0	20	
Potassium	37.6	mg/L	1.0	102	70	130	1.9	20	
Silica	13.6	mg/L	0.10	116	70	130	2.3	20	
Sodium	87.4	mg/L	1.1	105	70	130	2.1	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_R105315
Sample ID: MB-080804A	Method Blank				Run: SUB-C105315				08/04/08 14:39
Silica	0.06	mg/L	0.02						
Aluminum	ND	mg/L	0.004						
Barium	ND	mg/L	0.006						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Chromium	ND	mg/L	0.002						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Manganese	ND	mg/L	0.0003						
Molybdenum	ND	mg/L	0.003						
Nickel	ND	mg/L	0.004						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Vanadium	0.003	mg/L	0.003						
Zinc	ND	mg/L	0.002						
Sample ID: LFB-080804A	Laboratory Fortified Blank				Run: SUB-C105315				08/04/08 14:43
Silica	0.50	mg/L	0.10	111	85	125			
Aluminum	1.0	mg/L	0.10	102	85	125			
Barium	1.0	mg/L	0.10	104	85	125			
Boron	1.0	mg/L	0.10	104	85	125			
Calcium	57	mg/L	0.50	114	85	125			
Chromium	1.0	mg/L	0.050	105	85	125			
Iron	1.1	mg/L	0.030	114	85	125			
Magnesium	56	mg/L	0.50	112	85	125			
Manganese	1.0	mg/L	0.010	104	85	125			
Molybdenum	1.0	mg/L	0.10	102	85	125			
Nickel	1.0	mg/L	0.050	104	85	125			
Potassium	47	mg/L	0.50	94	85	125			
Sodium	51	mg/L	0.77	102	85	125			
Vanadium	1.1	mg/L	0.10	112	85	125			
Zinc	1.1	mg/L	0.010	106	85	125			
Sample ID: C08070127-001BMS2	Sample Matrix Spike				Run: SUB-C105315				08/04/08 14:51
Aluminum	9.78	mg/L	0.10	98	70	130			
Barium	10.1	mg/L	0.10	100	70	130			
Boron	12.6	mg/L	0.10	100	70	130			
Chromium	10.0	mg/L	0.050	100	70	130			
Iron	10.9	mg/L	0.047	109	70	130			
Manganese	10.2	mg/L	0.010	102	70	130			
Molybdenum	9.81	mg/L	0.10	98	70	130			
Nickel	9.96	mg/L	0.050	100	70	130			
Vanadium	10.7	mg/L	0.10	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R105315	
Sample ID: C08070127-001BMS2	Sample Matrix Spike				Run: SUB-C105315			08/04/08 14:51	
Zinc	10.2	mg/L	0.022	102	70	130			
Calcium	723	mg/L	1.1	110	70	130			
Magnesium	599	mg/L	1.0	109	70	130			
Potassium	513	mg/L	1.0	92	70	130			
Silica	10.8	mg/L	0.21	106	70	130			
Sodium	1190	mg/L	7.7	100	70	130			
Sample ID: C08070127-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C105315			08/04/08 14:56	
Aluminum	9.32	mg/L	0.10	93	70	130	4.8	20	
Barium	10.0	mg/L	0.10	99	70	130	1.1	20	
Boron	12.6	mg/L	0.10	100	70	130	0	20	
Chromium	9.92	mg/L	0.050	99	70	130	1.1	20	
Iron	10.6	mg/L	0.047	106	70	130	3.2	20	
Manganese	9.90	mg/L	0.010	99	70	130	2.9	20	
Molybdenum	9.74	mg/L	0.10	97	70	130	0.7	20	
Nickel	9.80	mg/L	0.050	98	70	130	1.5	20	
Vanadium	10.6	mg/L	0.10	106	70	130	1	20	
Zinc	9.93	mg/L	0.022	99	70	130	2.4	20	
Calcium	713	mg/L	1.1	108	70	130	1.4	20	
Magnesium	591	mg/L	1.0	107	70	130	1.4	20	
Potassium	514	mg/L	1.0	92	70	130	0.2	20	
Silica	10.8	mg/L	0.21	106	70	130	0.3	20	
Sodium	1210	mg/L	7.7	104	70	130	1.4	20	
Method: E200.7_8								Batch: C_19227	
Sample ID: MB-19227	Method Blank				Run: SUB-C105327			08/04/08 19:15	
Arsenic	0.0007	mg/L	0.0002						
Cadmium	ND	mg/L	8E-05						
Lead	ND	mg/L	3E-05						
Silver	ND	mg/L	9E-05						
Thorium 232	0.0002	mg/L	6E-05						
Uranium	0.0007	mg/L	4E-05						
Sample ID: LCS3-19227	Laboratory Control Sample				Run: SUB-C105327			08/04/08 19:49	
Arsenic	0.483	mg/L	0.0020	96	85	115			
Cadmium	0.241	mg/L	0.010	96	85	115			
Lead	0.483	mg/L	0.050	97	85	115			
Silver	0.0469	mg/L	0.010	94	85	115			
Thorium 232	0.493	mg/L	0.0010	99	85	115			
Uranium	0.494	mg/L	0.00040	99	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19227
Sample ID: C08071066-001HMS3	Sample Matrix Spike				Run: SUB-C105327				08/04/08 20:43
Arsenic	0.503	mg/L	0.0010	101	70	130			
Cadmium	0.246	mg/L	0.0010	98	70	130			
Lead	0.511	mg/L	0.0010	102	70	130			
Silver	0.0474	mg/L	0.010	119	70	130			
Thorium 232	0.541	mg/L	0.0010	108	70	130			
Uranium	0.633	mg/L	0.00030	110	70	130			
Sample ID: C08071066-001HMSD3	Sample Matrix Spike Duplicate				Run: SUB-C105327				08/04/08 21:17
Arsenic	0.501	mg/L	0.0010	100	70	130	0.3	20	
Cadmium	0.250	mg/L	0.0010	99	70	130	1.7	20	
Lead	0.512	mg/L	0.0010	102	70	130	0.2	20	
Silver	0.0479	mg/L	0.010	120	70	130	1.1	20	
Thorium 232	0.538	mg/L	0.0010	108	70	130	0.4	20	
Uranium	0.630	mg/L	0.00030	109	70	130	0.5	20	
Method: E200.8									Batch: C_19232
Sample ID: MB-19232	Method Blank				Run: SUB-C104868				07/27/08 04:58
Thorium 232	0.0004	mg/L							
Uranium	6E-05	mg/L							
Sample ID: LCS1-19232	Laboratory Control Sample				Run: SUB-C104868				07/27/08 05:15
Thorium 232	0.0487	mg/L	0.0010	92	80	120			
Uranium	0.0467	mg/L	0.00030	89	80	120			
Sample ID: C08071003-002KMS4	Post Digestion Spike				Run: SUB-C104868				07/27/08 05:35
Thorium 232	0.0132	mg/L	0.0010	94	70	130			
Uranium	0.0128	mg/L	0.00030	95	70	130			
Sample ID: C08071003-002KMSD4	Post Digestion Spike Duplicate				Run: SUB-C104868				07/27/08 05:39
Thorium 232	0.0131	mg/L	0.0010	93	70	130	0.6	20	
Uranium	0.0128	mg/L	0.00030	95	70	130	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R105327
Sample ID: LRB	Method Blank				Run: SUB-C105327				08/04/08 12:41
Arsenic	ND	mg/L	6E-05						
Cadmium	ND	mg/L	1E-05						
Copper	ND	mg/L	7E-05						
Lead	ND	mg/L	3E-05						
Mercury	ND	mg/L	8E-05						
Silver	ND	mg/L	3E-05						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105327				08/04/08 12:47
Arsenic	0.0525	mg/L	0.0010	105	85	115			
Cadmium	0.0523	mg/L	0.0010	105	85	115			
Copper	0.0533	mg/L	0.0010	107	85	115			
Lead	0.0534	mg/L	0.0010	107	85	115			
Mercury	0.00543	mg/L	0.0010	108	85	115			
Silver	0.0209	mg/L	0.0010	105	85	115			
Thorium 232	0.0528	mg/L	0.0010	106	85	115			
Uranium	0.0531	mg/L	0.00030	106	85	115			
Sample ID: C08071011-006BMS4	Post Digestion Spike				Run: SUB-C105327				08/05/08 02:48
Arsenic	0.0525	mg/L	0.0010	104	70	130			
Cadmium	0.0499	mg/L	0.010	99	70	130			
Copper	0.0485	mg/L	0.010	93	70	130			
Lead	0.0518	mg/L	0.050	101	70	130			
Mercury	0.00523	mg/L	0.0010	105	70	130			
Silver	0.0159	mg/L	0.010	79	70	130			
Thorium 232	0.0516	mg/L	0.0010	103	70	130			
Uranium	0.107	mg/L	0.00030	107	70	130			
Sample ID: C08071011-006BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105327				08/05/08 03:22
Arsenic	0.0531	mg/L	0.0010	105	70	130	1.1	20	
Cadmium	0.0503	mg/L	0.010	99	70	130	0.7	20	
Copper	0.0502	mg/L	0.010	97	70	130	3.5	20	
Lead	0.0518	mg/L	0.050	101	70	130	0.1	20	
Mercury	0.00515	mg/L	0.0010	103	70	130	1.6	20	
Silver	0.0145	mg/L	0.010	73	70	130	8.7	20	
Thorium 232	0.0521	mg/L	0.0010	104	70	130	0.9	20	
Uranium	0.108	mg/L	0.00030	109	70	130	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_33735
Sample ID: MB-33735	Method Blank				Run: SUB-B114848				07/29/08 11:25
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank				Run: SUB-B114848				07/29/08 11:32
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike				Run: SUB-B114848				07/29/08 12:18
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-B114848				07/29/08 12:21
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	
Method: E300.0									Batch: R36265
Sample ID: LFB0807215435-3	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 17:59
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 18:15
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: DIONEX_080721A				07/21/08 18:48
Chloride	252	mg/L	5.4	95	80	120			
Fluoride	107	mg/L	0.56	107	80	120			
Nitrogen, Nitrate as N	123	mg/L	1.3	99	80	120			
Sulfate	1620	mg/L	3.4	85	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080721A				07/21/08 19:04
Chloride	241	mg/L	5.4	90	80	120	4.2	10	
Fluoride	102	mg/L	0.56	102	80	120	4.2	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	95	80	120	4.2	10	
Sulfate	1590	mg/L	3.4	82	80	120	1.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0510	
Sample ID: MB-GrAB-0510	Method Blank				Run: SUB-C107110			09/04/08 06:47	
Gross Alpha	-0.1	pCi/L							U
Gross Beta	-2	pCi/L							
Sample ID: UNAT-GrAB-0510	Laboratory Control Sample				Run: SUB-C107110			09/04/08 06:47	
Gross Alpha	120	pCi/L		87	70	130			
Sample ID: Cs137-GrAB-0510	Laboratory Control Sample				Run: SUB-C107110			09/04/08 06:47	
Gross Beta	77	pCi/L		84	70	130			
Sample ID: C08070835-001AMS	Sample Matrix Spike				Run: SUB-C107110			09/04/08 18:47	
Gross Alpha	128	pCi/L		92	70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C107110			09/04/08 18:47	
Gross Alpha	121	pCi/L		88	70	130	5.2	16.7	
Sample ID: C08070835-001AMS	Sample Matrix Spike				Run: SUB-C107110			09/04/08 18:47	
Gross Beta	76.3	pCi/L		86	70	130			
Sample ID: C08070835-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C107110			09/04/08 18:47	
Gross Beta	74.2	pCi/L		84	70	130	2.8	16.1	
Method: E901.1								Batch: C_R105938	
Sample ID: LCS-R105938	Laboratory Control Sample				Run: SUB-C105938			08/08/08 07:23	
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L							
Sample ID: C08071122-003IDUP	Sample Duplicate				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0								Batch: C_19232	
Sample ID: R08070244-010I	Sample Matrix Spike				Run: SUB-C105907			08/11/08 09:37	
Radium 226	44	pCi/L		100	70	130			
Sample ID: R08070244-010I	Sample Matrix Spike Duplicate				Run: SUB-C105907			08/11/08 09:37	
Radium 226	43	pCi/L		97	70	130	2.1	24.1	
Sample ID: MB-19232	Method Blank				Run: SUB-C105907			08/11/08 11:25	
Radium 226	-1	pCi/L							U
Sample ID: LCS-19232	Laboratory Control Sample				Run: SUB-C105907			08/11/08 14:02	
Radium 226	86	pCi/L		104	70	130			

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_RA226-3003
Sample ID: C08070969-001DMS	Sample Matrix Spike				Run: SUB-C106301				08/19/08 00:04
Radium 226	14	pCi/L		84	70	130			
Sample ID: C08070969-001DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106301				08/19/08 00:04
Radium 226	15	pCi/L		94	70	130	10	26.1	
Sample ID: MB-RA226-3003	Method Blank				Run: SUB-C106301				08/19/08 08:44
Radium 226	-0.1	pCi/L							U
Sample ID: LCS-RA226-3003	Laboratory Control Sample				Run: SUB-C106301				08/19/08 08:44
Radium 226	8.2	pCi/L		106	70	130			
Method: E907.0									Batch: C_19232
Sample ID: C08071003-001KMS	Sample Matrix Spike				Run: SUB-C105778				08/10/08 17:23
Thorium 230	22.3	pCi/L	0.20	96	70	130			
Sample ID: C08071003-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C105778				08/10/08 17:23
Thorium 230	21.3	pCi/L	0.20	90	70	130	4.3	30	
Sample ID: LCS-19232	Laboratory Control Sample				Run: SUB-C105778				08/10/08 17:23
Thorium 230	45.0	pCi/L	0.20	88	70	130			
Sample ID: MB-19232	Method Blank				Run: SUB-C105778				08/10/08 21:35
Thorium 230	0.1	pCi/L							U
Method: E907.0									Batch: C_RA-TH-ISO-0601
Sample ID: LCS-RA-TH-ISO-0601	Laboratory Control Sample				Run: SUB-C106357				08/21/08 08:57
Thorium 230	6.02	pCi/L	0.20	99	70	130			
Sample ID: C08070904-016DMS	Sample Matrix Spike				Run: SUB-C106357				08/21/08 09:09
Thorium 230	12.5	pCi/L	0.20	102	70	130			
Sample ID: C08070904-016DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106357				08/21/08 09:10
Thorium 230	12.5	pCi/L	0.20	102	70	130	0	30	
Sample ID: MB-RA-TH-ISO-0601	Method Blank				Run: SUB-C106357				08/20/08 21:32
Thorium 230	-0.04	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M									Batch: C_19232
Sample ID: C08070935-001FMS	Sample Matrix Spike				Run: SUB-C106570				08/11/08 09:30
Lead 210	1200	pCi/L		100	70	130			
Sample ID: C08070935-001FMSD	Sample Matrix Spike Duplicate				Run: SUB-C106570				08/11/08 09:30
Lead 210	1300	pCi/L		107	70	130	7.4	30	
Sample ID: MB-R106570	Method Blank				Run: SUB-C106570				08/11/08 09:30
Lead 210	1	pCi/L							U
Sample ID: LCS-R106570	Laboratory Control Sample				Run: SUB-C106570				08/11/08 09:30
Lead 210	140	pCi/L		117	70	130			
Method: E909.0M									Batch: C_R106578
Sample ID: C08070869-003EMS	Sample Matrix Spike				Run: SUB-C106578				08/11/08 10:51
Lead 210	600	pCi/L		102	70	130			
Sample ID: C08070869-003EMSD	Sample Matrix Spike Duplicate				Run: SUB-C106578				08/11/08 10:51
Lead 210	540	pCi/L		92	70	130	10	30	
Sample ID: R08070340-001J	Sample Duplicate				Run: SUB-C106578				08/11/08 10:51
Lead 210	4.6	pCi/L					71	30	UR
- The Sample and the Duplicate are both below the MDC; the RPD is acceptable.									
Sample ID: MB-R106578	Method Blank				Run: SUB-C106578				08/11/08 10:51
Lead 210	6	pCi/L							U
Sample ID: LCS-R106578	Laboratory Control Sample				Run: SUB-C106578				08/11/08 10:51
Lead 210	100	pCi/L		83	70	130			
Method: RMO-3008									Batch: C_19232
Sample ID: C08071003-002KMS	Sample Matrix Spike				Run: SUB-C105985				08/08/08 16:32
Polonium 210	39	pCi/L	1.0	95	70	130			
Sample ID: C08071003-002KMSD	Sample Matrix Spike Duplicate				Run: SUB-C105985				08/08/08 16:32
Polonium 210	44	pCi/L	1.0	109	70	130	13	30	
Sample ID: LCS-19232	Laboratory Control Sample				Run: SUB-C105985				08/08/08 16:32
Polonium 210	86	pCi/L	1.0	105	70	130			
Sample ID: MB-19232	Method Blank				Run: SUB-C105985				08/08/08 16:32
Polonium 210	0.6	pCi/L							U

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 10/01/08
Work Order: R08070340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RMO-3008									Batch: C_R106673
Sample ID: C08071095-001EMS	Sample Matrix Spike				Run: SUB-C106673				08/21/08 17:30
Polonium 210	53	pCi/L	1.0	93	70	130			
Sample ID: C08071095-001EMSD	Sample Matrix Spike Duplicate				Run: SUB-C106673				08/21/08 17:30
Polonium 210	47	pCi/L	1.0	83	70	130	12	30	
Sample ID: LCS-R106673	Laboratory Control Sample				Run: SUB-C106673				08/21/08 17:30
Polonium 210	43	pCi/L	1.0	77	70	130			
Sample ID: MB-R106673	Method Blank				Run: SUB-C106673				08/21/08 17:30
Polonium 210	0.4	pCi/L							U

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
~~Powertech DB~~ RESPEC	Powertech DB	State: SD	Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax: cory.foreman@respec.com	Email:	Sampler: (Please Print) Eric Kantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED: All SW As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp 5.1 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	Comments
1	DewBurdUNT01	7/18/08		W	passive sampler bottle
2	DewBurd PSC01	7/18/08	12:40	W	set 19
3	DewBurd PSC02	7/18/08	14:25	W	set 6
4					
5					
6					
7					
8					
9					
10					

LABORATORY USE ONLY: 0807034 0-001 002

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Kantz	7/19/08 0650	[signature]	Theresa Bultema	07-19-08 1400	Theresa Bultema
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

** REPORT **

RESPEC Inc
Cory Foreman
3824 Jet Dr
Rapid City SD 57701

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 10, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070342 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 1 sample from RESPEC Inc on 7/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070342-001	DewBurd UNT01	07/18/08 0:00	07/19/08	Aqueous	Metals by ICP/ICPMS, Dissolved
					Metals by ICP/ICPMS, Suspended
					Metals by ICP/ICPMS, Total
					Alkalinity
					Anion - Cation Balance
					Conductivity
					Mercury, Total
					Selenium, Dissolved
					Selenium, Dissolved
					Selenium, Dissolved
					Anions by Ion Chromatography
					Nitrogen, Ammonia
					pH
					Metals Digestion by EPA 200.2
					Digestion, Total Metals
					Digestion, Total Metals
					Dissolved Filtration
					Digestion, Mercury by CVAA
					Gross Alpha, Gross Beta
					Gross Gamma
					Radium 226, Dissolved
					Radium 226, Suspended
					Radium 226, Total
					Thorium, Isotopic
					Thorium, Suspended Isotopic
					Thorium, Isotopic
					Sodium Adsorption Ratio
					Suspended Sediment Concentration
					Solids, Total Dissolved
					Solids, Total Suspended

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By:

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

Date: *10-Sep-08*

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070342

CASE NARRATIVE

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08071121

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

ANALYSIS COMMENTS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all Radiochemical analyses.
End of comments imported for SUBBED Workorder: C08071121

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070342-001
Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
Collection Date: 07/18/08
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	ND	mg/L		5		1	A2320 B	07/22/08 10:32/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:32/mb
Bicarbonate as HCO3	ND	mg/L		5		1	A2320 B	07/22/08 10:32/mb
Calcium	51.6	mg/L		0.5		1	E200.7	08/07/08 19:07/eli-c
Chloride	1	mg/L		1		1	E300.0	07/21/08 20:26/jmh
Fluoride	0.3	mg/L		0.1		1	E300.0	07/21/08 20:26/jmh
Magnesium	22.4	mg/L		0.5		1	E200.7	08/07/08 19:07/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	07/30/08 12:05/jmh
Nitrogen, Nitrate as N	0.6	mg/L		0.1		1	E300.0	07/21/08 20:26/jmh
Potassium	8	mg/L		1		1	E200.7	08/07/08 19:07/eli-c
Silica	0.8	mg/L		0.5		1	E200.7	08/07/08 19:07/eli-c
Sodium	2.5	mg/L		0.5		1	E200.7	08/07/08 19:07/eli-c
Sulfate	278	mg/L	D	3		50	E300.0	07/21/08 20:10/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	536	umhos/cm		5.0		1	A2510 B	07/22/08 09:59/tb
pH	4.91	s.u.		0.01		1	A4500-H B	07/22/08 09:22/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	291	mg/L		5		1	D3977	07/24/08 00:00/mb
Solids, Total Dissolved TDS @ 180 C	380	mg/L		5		1	A2540 C	07/23/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	290	mg/L		5		1	A2540 D	07/21/08 15:07/mb
METALS - DISSOLVED								
Aluminum	0.4	mg/L		0.1		1	E200.8	08/06/08 17:04/eli-c
Arsenic	ND	mg/L		0.001		1	E200.8	08/05/08 19:34/eli-c
Barium	ND	mg/L		0.1		1	E200.8	08/05/08 19:34/eli-c
Boron	ND	mg/L		0.1		1	E200.7	08/07/08 19:07/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 19:34/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	08/05/08 19:34/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 19:34/eli-c
Iron	0.05	mg/L		0.03		1	E200.7	08/07/08 19:07/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 19:34/eli-c
Manganese	3.87	mg/L		0.01		1	E200.8	08/05/08 19:34/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 19:34/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	08/05/08 19:34/eli-c
Nickel	0.09	mg/L		0.01		1	E200.8	08/05/08 19:34/eli-c
Silver	ND	mg/L		0.005		1	E200.8	08/06/08 17:04/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 19:34/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	08/05/08 19:34/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070342-001
Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
Collection Date: 07/18/08
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	08/05/08 19:34/eli-c
Zinc	0.06	mg/L		0.01		1	E200.8	08/05/08 19:34/eli-c
METALS - SUSPENDED								
Thorium 232	0.002	mg/L		0.001		1	E200.8	08/14/08 16:27/eli-c
Uranium	ND	mg/L		0.0003		1	E200.8	07/29/08 18:31/eli-c
METALS - TOTAL								
Aluminum	8.1	mg/L		0.1		2	E200.7	08/04/08 18:37/eli-c
Arsenic	0.030	mg/L		0.001		10	E200.8	08/01/08 01:41/eli-c
Barium	ND	mg/L		0.1		10	E200.8	08/01/08 01:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	08/04/08 18:37/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	08/01/08 01:41/eli-c
Chromium	ND	mg/L		0.05		10	E200.8	08/01/08 01:41/eli-c
Copper	0.01	mg/L		0.01		10	E200.8	08/01/08 01:41/eli-c
Iron	8.93	mg/L		0.03		2	E200.7	08/04/08 18:37/eli-c
Lead	0.008	mg/L		0.001		10	E200.8	08/01/08 01:41/eli-c
Manganese	5.06	mg/L		0.01		10	E200.8	08/01/08 01:41/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	08/01/08 01:41/eli-c
Nickel	0.11	mg/L		0.05		10	E200.8	08/01/08 01:41/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/01/08 12:24/eli-c
Thorium 232	ND	mg/L		0.005		10	E200.8	08/01/08 12:24/eli-c
Uranium	0.0009	mg/L		0.0003		10	E200.8	08/01/08 01:41/eli-c
Vanadium	0.2	mg/L	D	0.2		10	E200.8	08/01/08 01:41/eli-c
Zinc	0.09	mg/L		0.01		10	E200.8	08/01/08 01:41/eli-c
Calcium	59.2	mg/L		0.5		2	E200.7	08/04/08 18:37/eli-c
Magnesium	24.8	mg/L		0.5		2	E200.7	08/04/08 18:37/eli-c
Potassium	10.1	mg/L		0.5		2	E200.7	08/04/08 18:37/eli-c
Silica	12.5	mg/L		0.5		2	E200.7	08/04/08 18:37/eli-c
Sodium	2	mg/L	D	1		2	E200.7	08/04/08 18:37/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/15/08 15:22/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/15/08 11:44/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.2	pCi/L	U			1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070342-001
Client Sample ID: DewBurd UNT01

Report Date: 09/10/08
Collection Date: 07/18/08
Date Received: 07/19/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Radium 226 MDC	0.4	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	0.03	pCi/L	U			1	E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.5	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	6.1	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Alpha precision (±)	1.4	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Alpha MDC	1.6	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Beta	12.6	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Beta precision (±)	2.2	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Beta MDC	3.3	pCi/L				1	E900.0	08/24/08 15:05/eli-c
Gross Gamma	221	pCi/L		20.0		1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	83.3	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	0.3	pCi/L	U			1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	0.4	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Thorium 230	-0.02	pCi/L	U	0.2		1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	0.2	pCi/L				1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:25/eli-b
DATA QUALITY								
A/C Balance (± 5)	-7.33	%				1	A1030 E	09/05/08 00:00/jmh
Anions	5.89	meq/L				1	A1030 E	09/05/08 00:00/jmh
Cations	5.09	meq/L				1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	369	mg/L				1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.02					1	A1030 E	09/05/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080722A-ALK-SEL-W	
Sample ID: LCS1_080722A	Laboratory Control Sample				Run: PH_COND1-R_080722A			07/22/08 08:58	
Alkalinity, Total as CaCO3	948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080722A	Method Blank				Run: PH_COND1-R_080722A			07/22/08 08:59	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B								Batch: 080722_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:53	
Conductivity @ 25 C	1430	umhos/cm	5.0	101	90	110			
Sample ID: LCS1-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:54	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:55	
Conductivity @ 25 C	5140	umhos/cm	5.0	103	90	110			
Sample ID: MBLK-1_080722	Method Blank				Run: PH_COND2-R_080722C			07/22/08 09:56	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08070357-001BDUP	Sample Duplicate				Run: PH_COND2-R_080722C			07/22/08 10:07	
Conductivity @ 25 C	666	umhos/cm	5.0				0.9	10	
Method: A2540 C								Batch: 080723A-SLDS-TDS-W	
Sample ID: LCS1_080723A	Laboratory Control Sample				Run: BAL-4-R_080724B			07/23/08 11:36	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080723A	Method Blank				Run: BAL-4-R_080724B			07/23/08 11:37	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	96	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	110	80	120	1.5	10	
Method: A2540 D								Batch: 080721A-SLDS-TSS-W	
Sample ID: LCS1_080721A	Laboratory Control Sample				Run: BAL-4-R_080721B			07/21/08 14:54	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: MBLK1_080721A	Method Blank				Run: BAL-4-R_080721B			07/21/08 14:55	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B								Batch: C_SE3114-0808015A	
Sample ID: MBLK	Method Blank				Run: SUB-C105972			08/15/08 11:38	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105972			08/15/08 11:40	
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105972			08/15/08 11:46	
Selenium-IV	0.055	mg/L	0.0010	109	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105972			08/15/08 11:48	
Selenium-IV	0.057	mg/L	0.0010	113	85	115	4.0	10	
Method: A3114 B								Batch: C_SE3114-0808015B	
Sample ID: MBLK	Method Blank				Run: SUB-C105991			08/15/08 15:10	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105991			08/15/08 15:20	
Selenium	0.047	mg/L	0.0010	95	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105991			08/15/08 15:24	
Selenium	0.047	mg/L	0.0010	91	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105991			08/15/08 15:26	
Selenium	0.048	mg/L	0.0010	93	85	115	2.1	15	
Method: A4500-H B								Batch: 080722_1_PH-W	
Sample ID: LCS_pH-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722A			07/22/08 09:14	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08070352-003CDUP	Sample Duplicate				Run: PH_COND2-R_080722A			07/22/08 09:33	
pH	7.83	s.u.	0.010				0.0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-07-30_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080730A			07/30/08 11:56	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080730A			07/30/08 11:58	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	102	90	110			
Sample ID: R08070342-001FMS	Sample Matrix Spike				Run: TECHAA2-R_080730A			07/30/08 12:06	
Nitrogen, Ammonia as N	0.66	mg/L	0.10	102	80	120			
Sample ID: R08070342-001FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080730A			07/30/08 12:07	
Nitrogen, Ammonia as N	0.65	mg/L	0.10	99	80	120	0.9	10	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19243
Sample ID: MB-19243	Method Blank				Run: SUB-C105315				08/04/08 18:29
Aluminum	0.007	mg/L	0.002						
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19243	Laboratory Control Sample				Run: SUB-C105315				08/04/08 18:33
Aluminum	2.55	mg/L	0.10	102	85	115			
Boron	0.528	mg/L	0.10	102	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Calcium	27.0	mg/L	1.0	108	85	115			
Magnesium	26.4	mg/L	1.0	106	85	115			
Potassium	25.9	mg/L	1.0	104	85	115			
Silica	5.57	mg/L	0.10	111	85	115			
Sodium	26.3	mg/L	1.0	105	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike				Run: SUB-C105315				08/04/08 19:02
Aluminum	2.59	mg/L	0.10	101	70	130			
Boron	0.792	mg/L	0.10	106	70	130			
Iron	3.18	mg/L	0.030	110	70	130			
Calcium	29.9	mg/L	1.0	112	70	130			
Magnesium	27.6	mg/L	1.0	109	70	130			
Potassium	26.4	mg/L	1.0	103	70	130			
Sodium	396	mg/L	1.1		70	130			A
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C105315				08/04/08 19:06
Aluminum	2.44	mg/L	0.10	95	70	130	6.0	20	
Boron	0.738	mg/L	0.10	95	70	130	7.1	20	
Iron	2.88	mg/L	0.030	98	70	130	9.8	20	
Calcium	27.4	mg/L	1.0	102	70	130	8.7	20	
Magnesium	25.4	mg/L	1.0	100	70	130	8.2	20	
Potassium	25.5	mg/L	1.0	99	70	130	3.5	20	
Sodium	386	mg/L	1.1		70	130	2.7	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R105567	
Sample ID: MB	Method Blank				Run: SUB-C105567			08/07/08 15:40	
Boron	0.04	mg/L	0.01						
Iron	ND	mg/L	0.03						
Calcium	ND	mg/L	0.1						
Magnesium	ND	mg/L	0.04						
Potassium	0.2	mg/L	0.1						
Silica	ND	mg/L	0.02						
Sodium	ND	mg/L	0.2						
Sample ID: R08070343-003A	Sample Matrix Spike				Run: SUB-C105567			08/07/08 19:25	
Boron	0.668	mg/L	0.10	107	70	130			
Iron	0.569	mg/L	0.031	114	70	130			
Calcium	526	mg/L	1.0		70	130			A
Magnesium	76.2	mg/L	1.0	104	70	130			
Silica	2.20	mg/L	0.10		70	130			A
Sodium	63.1	mg/L	1.0	108	70	130			
Sample ID: R08070343-003A	Sample Matrix Spike Duplicate				Run: SUB-C105567			08/07/08 19:29	
Boron	0.678	mg/L	0.10	109	70	130	1.5	20	
Iron	0.559	mg/L	0.031	112	70	130	1.8	20	
Calcium	518	mg/L	1.0		70	130	1.6	20	A
Magnesium	74.9	mg/L	1.0	102	70	130	1.7	20	
Silica	2.22	mg/L	0.10	-9	70	130	0.7	20	S
Sodium	62.0	mg/L	1.0	106	70	130	1.8	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.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19243
Sample ID: MB-19243	Method Blank				Run: SUB-C105162				08/01/08 01:28
Arsenic	0.02	mg/L	4E-05						
Barium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.007	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Vanadium	0.1	mg/L	0.0007						
Zinc	0.001	mg/L	0.0007						
Sample ID: LCS3-19243	Laboratory Control Sample				Run: SUB-C105162				08/01/08 01:35
Arsenic	0.570	mg/L	0.0010	109	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Cadmium	0.271	mg/L	0.010	108	85	115			
Chromium	0.533	mg/L	0.050	105	85	115			
Copper	0.530	mg/L	0.010	106	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.86	mg/L	0.010	114	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.529	mg/L	0.050	106	85	115			
Silver	0.0343	mg/L	0.010	69	85	115			S
Uranium	0.557	mg/L	0.00030	112	85	115			
Vanadium	0.772	mg/L	0.10	133	85	115			S
Zinc	0.538	mg/L	0.010	107	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike				Run: SUB-C105162				08/01/08 04:45
Arsenic	0.569	mg/L	0.0010	109	70	130			
Barium	0.587	mg/L	0.10	105	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.542	mg/L	0.050	107	70	130			
Copper	0.542	mg/L	0.010	108	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Manganese	2.83	mg/L	0.010	113	70	130			
Molybdenum	0.503	mg/L	0.10	101	70	130			
Nickel	0.532	mg/L	0.050	106	70	130			
Silver	0.0337	mg/L	0.010	67	70	130			S
Uranium	0.546	mg/L	0.00030	109	70	130			

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_19243	
Sample ID: C08071182-001CMS3	Sample Matrix Spike				Run: SUB-C105162			08/01/08 04:45	
Vanadium	0.799	mg/L	0.10	112	70	130			
Zinc	0.540	mg/L	0.010	107	70	130			
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C105162			08/01/08 04:52	
Arsenic	0.538	mg/L	0.0010	103	70	130	5.6	20	
Barium	0.561	mg/L	0.10	100	70	130	4.5	20	
Cadmium	0.248	mg/L	0.010	99	70	130	5.7	20	
Chromium	0.512	mg/L	0.050	101	70	130	5.7	20	
Copper	0.510	mg/L	0.010	102	70	130	6.1	20	
Lead	0.480	mg/L	0.050	96	70	130	3.8	20	
Manganese	2.69	mg/L	0.010	107	70	130	5.0	20	
Molybdenum	0.483	mg/L	0.10	97	70	130	4.0	20	
Nickel	0.504	mg/L	0.050	101	70	130	5.5	20	
Silver	0.0359	mg/L	0.010	72	70	130	6.2	20	
Uranium	0.521	mg/L	0.00030	104	70	130	4.6	20	
Vanadium	0.748	mg/L	0.10	102	70	130	6.6	20	
Zinc	0.524	mg/L	0.010	103	70	130	3.1	20	
Method: E200.8								Batch: C_19254	
Sample ID: MB-19254	Method Blank				Run: SUB-C105957			08/14/08 16:14	
Thorium 232	0.0006	mg/L							
Uranium	1E-05	mg/L							
Sample ID: LCS1-19254	Laboratory Control Sample				Run: SUB-C105957			08/14/08 16:21	
Thorium 232	0.0484	mg/L	0.0010	91	80	120			
Uranium	0.0513	mg/L	0.00030	97	80	120			
Sample ID: R08070343-003K	Post Digestion Spike				Run: SUB-C105957			08/14/08 17:17	
Thorium 232	0.180	mg/L	0.0010	99	70	130			
Uranium	0.182	mg/L	0.00030	106	70	130			
Sample ID: R08070343-003K	Post Digestion Spike Duplicate				Run: SUB-C105957			08/14/08 17:24	
Thorium 232	0.180	mg/L	0.0010	99	70	130	0.0	20	
Uranium	0.182	mg/L	0.00030	106	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R105384	
Sample ID: LRB	Method Blank				Run: SUB-C105384			08/05/08 13:12	
Arsenic	ND	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						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105384			08/05/08 13:18	
Arsenic	0.0564	mg/L	0.0010	113	85	115			
Barium	0.0559	mg/L	0.0010	112	85	115			
Cadmium	0.0557	mg/L	0.0010	111	85	115			
Chromium	0.0537	mg/L	0.0010	107	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0563	mg/L	0.0010	113	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00558	mg/L	0.0010	112	85	115			
Molybdenum	0.0564	mg/L	0.0010	113	85	115			
Nickel	0.0574	mg/L	0.0010	115	85	115			
Thorium 232	0.0538	mg/L	0.0010	108	85	115			
Uranium	0.0543	mg/L	0.00030	109	85	115			
Vanadium	0.0531	mg/L	0.0010	106	85	115			
Zinc	0.0579	mg/L	0.0010	116	85	115			
Sample ID: C08071095-005BMS4	Post Digestion Spike				Run: SUB-C105384			08/05/08 19:08	
Arsenic	0.0597	mg/L	0.0010	110	70	130			
Barium	0.191	mg/L	0.10	105	70	130			
Cadmium	0.0518	mg/L	0.010	104	70	130			
Chromium	0.0499	mg/L	0.050	100	70	130			
Copper	0.0573	mg/L	0.010	104	70	130			
Lead	0.0542	mg/L	0.050	108	70	130			
Manganese	0.279	mg/L	0.010		70	130			A
Mercury	0.00535	mg/L	0.0010	107	70	130			
Molybdenum	0.0543	mg/L	0.10	103	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R105384	
Sample ID: C08071095-005BMS4	Post Digestion Spike				Run: SUB-C105384			08/05/08 19:08	
Nickel	0.0557	mg/L	0.050	104	70	130			
Thorium 232	0.0521	mg/L	0.0010	104	70	130			
Uranium	0.0590	mg/L	0.00030	108	70	130			
Vanadium	0.0515	mg/L	0.10	100	70	130			
Zinc	0.0576	mg/L	0.010	105	70	130			
Sample ID: C08071095-005BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105384			08/05/08 19:14	
Arsenic	0.0585	mg/L	0.0010	107	70	130	2.1	20	
Barium	0.194	mg/L	0.10	111	70	130	1.5	20	
Cadmium	0.0518	mg/L	0.010	104	70	130	0.1	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0.0	20	
Copper	0.0563	mg/L	0.010	102	70	130	1.8	20	
Lead	0.0530	mg/L	0.050	105	70	130	2.1	20	
Manganese	0.279	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00525	mg/L	0.0010	105	70	130	1.8	20	
Molybdenum	0.0549	mg/L	0.10	104	70	130	0.0	20	
Nickel	0.0549	mg/L	0.050	102	70	130	1.5	20	
Thorium 232	0.0512	mg/L	0.0010	102	70	130	1.8	20	
Uranium	0.0575	mg/L	0.00030	105	70	130	2.5	20	
Vanadium	0.0519	mg/L	0.10	101	70	130	0.0	20	
Zinc	0.0568	mg/L	0.010	103	70	130	1.3	20	
Method: E200.8								Batch: C_R105472	
Sample ID: LRB	Method Blank				Run: SUB-C105472			08/06/08 12:39	
Aluminum	ND	mg/L	0.0001						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105472			08/06/08 12:46	
Aluminum	0.0484	mg/L	0.0010	97	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Sample ID: C08071183-003BMS4	Post Digestion Spike				Run: SUB-C105472			08/06/08 18:32	
Aluminum	0.141	mg/L	0.10	110	70	130			
Silver	0.0158	mg/L	0.010	79	70	130			
Sample ID: C08071183-003BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105472			08/06/08 18:39	
Aluminum	0.138	mg/L	0.10	104	70	130	2.1	20	
Silver	0.0159	mg/L	0.010	79	70	130	0.8	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1									Batch: B_33735
Sample ID: MB-33735	Method Blank				Run: SUB-B114848				07/29/08 11:25
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank				Run: SUB-B114848				07/29/08 11:32
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike				Run: SUB-B114848				07/29/08 12:18
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-B114848				07/29/08 12:21
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R36265
Sample ID: LFB0807215435-3	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 17:59
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 18:15
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: DIONEX_080721A				07/21/08 18:48
Chloride	252	mg/L	5.4	95	80	120			
Fluoride	107	mg/L	0.56	107	80	120			
Nitrogen, Nitrate as N	123	mg/L	1.3	99	80	120			
Sulfate	1620	mg/L	3.4	85	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080721A				07/21/08 19:04
Chloride	241	mg/L	5.4	90	80	120	4.2	10	
Fluoride	102	mg/L	0.56	102	80	120	4.2	10	
Nitrogen, Nitrate as N	118	mg/L	1.3	95	80	120	4.2	10	
Sulfate	1590	mg/L	3.4	82	80	120	1.4	10	
Sample ID: R08070343-002CMS	Sample Matrix Spike				Run: DIONEX_080721A				07/21/08 22:05
Chloride	249	mg/L	5.4	93	80	120			
Fluoride	106	mg/L	0.56	106	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Sulfate	1880	mg/L	3.4	88	80	120			
Sample ID: R08070343-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080721A				07/21/08 22:21
Chloride	242	mg/L	5.4	91	80	120	2.6	10	
Fluoride	103	mg/L	0.56	103	80	120	2.4	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.4	10	
Sulfate	1850	mg/L	3.4	83	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0505	
Sample ID: MB-GrAB-0505	Method Blank				Run: SUB-C106510			08/24/08 02:46	
Gross Alpha	0.1	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0505	Laboratory Control Sample				Run: SUB-C106510			08/24/08 02:46	
Gross Alpha	130	pCi/L		91	70	130			
Sample ID: Cs137-GrAB-0505	Laboratory Control Sample				Run: SUB-C106510			08/24/08 02:46	
Gross Beta	100	pCi/L		108	70	130			
Sample ID: C08071011-001AMS	Sample Matrix Spike				Run: SUB-C106510			08/24/08 02:46	
Gross Alpha	140	pCi/L		101	70	130			
Sample ID: C08071011-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106510			08/24/08 02:46	
Gross Alpha	130	pCi/L		92	70	130	9.4	16.3	
Sample ID: C08071011-001AMS	Sample Matrix Spike				Run: SUB-C106510			08/24/08 02:46	
Gross Beta	110	pCi/L		113	70	130			
Sample ID: C08071011-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C106510			08/24/08 02:46	
Gross Beta	110	pCi/L		120	70	130	5.3	16.1	
Method: E901.1								Batch: C_R105938	
Sample ID: LCS-R105938	Laboratory Control Sample				Run: SUB-C105938			08/08/08 07:23	
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma		pCi/L							
Sample ID: R08070343-003I	Sample Duplicate				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L	20				0.0	30	

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: C_19254
Sample ID: C08071121-001KMS	Sample Matrix Spike				Run: SUB-C105911				08/13/08 12:12
Radium 226	34	pCi/L		90	70	130			
Sample ID: C08071121-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C105911				08/13/08 12:12
Radium 226	34	pCi/L		92	70	130	1.5	24.8	
Sample ID: MB-19254	Method Blank				Run: SUB-C105911				08/13/08 13:55
Radium 226	-1	pCi/L							U
Sample ID: LCS-19254	Laboratory Control Sample				Run: SUB-C105911				08/13/08 13:55
Radium 226	69	pCi/L		89	70	130			
Method: E903.0									Batch: C_RA226-3011
Sample ID: MB-RA226-3011	Method Blank				Run: SUB-C106242				08/20/08 12:53
Radium 226	-0.3	pCi/L							U
Sample ID: LCS-RA226-3011	Laboratory Control Sample				Run: SUB-C106242				08/20/08 12:53
Radium 226	7.6	pCi/L		101	70	130			
Sample ID: C08071121-001JMS	Sample Matrix Spike				Run: SUB-C106242				08/20/08 12:53
Radium 226	17	pCi/L		107	70	130			
Sample ID: C08071121-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106242				08/20/08 12:53
Radium 226	18	pCi/L		112	70	130	4.8	29.5	
Method: E907.0									Batch: C_19254
Sample ID: C08071010-002EMS	Sample Matrix Spike				Run: SUB-C106091				08/06/08 10:30
Thorium 230	24.2	pCi/L	0.20	100	70	130			
Sample ID: C08071010-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C106091				08/06/08 10:30
Thorium 230	24.4	pCi/L	0.20	104	70	130	0.7	30	
Sample ID: LCS-19254	Laboratory Control Sample				Run: SUB-C106091				08/06/08 10:30
Thorium 230	50.1	pCi/L	0.20	103	70	130			
Sample ID: MB-19254	Method Blank				Run: SUB-C106091				08/06/08 10:30
Thorium 230	0.1	pCi/L							U

Qualifiers:

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

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/10/08
Work Order: R08070342

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: C_R106559
Sample ID: LCS-R106559	Laboratory Control Sample				Run: SUB-C106559				08/18/08 14:00
Thorium 230	6.36	pCi/L	0.20	104	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike				Run: SUB-C106559				08/18/08 14:00
Thorium 230	14.5	pCi/L	0.20	90	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike Duplicate				Run: SUB-C106559				08/18/08 14:00
Thorium 230	15.4	pCi/L	0.20	96	70	130	6.0	30	
Sample ID: MB-R106559	Method Blank				Run: SUB-C106559				08/18/08 14:00
Thorium 230	ND	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: ~~Powertech DB~~ RESPEC	Project Name, PWS, Permit, Etc.: Powertech DB	Sample Origin State: SD	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax: cory.foreman@respec.com	Email:	Sampler: (Please Print) Eric Kantz
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

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

Number of Containers
Sample Type: A W S V B O
Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED: All SW As Per Quote

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments: Sample Split into Proper containers in Lab. SF

Shipped by:

Cooler ID(s):

Receipt Temp 5.1 °C

On Ice: (Yes) No

Custody Seal (Y) N
Intact (Y) N
Signature Match (Y) N

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX												
1	Dew Burd UNT01	7/18/08		W											passive sampler bottle	B080703[illegible]001
2	Dew Burd PSC01	7/18/08	12:40	W											set 19	
3	Dew Burd PSC02	7/18/08	14:25	W											set 6	
4																
5																
6																
7																
8																
9																
10																

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Kantz	7/19/08 0650	[signature]	Theresa Bultema	07-19-08 1400	Theresa Bultema
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

ANALYTICAL SUMMARY REPORT

September 12, 2008

Cory Foreman
RESPEC Inc
3824 Jet Dr
Rapid City, SD 57701-

Workorder No.: R08070343 Quote ID: R286

Project Name: Edgemont

Energy Laboratories Inc. received the following 3 samples from RESPEC Inc on 7/21/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
R08070343-001	DewBurd PSC01-2	07/18/08 0:00	07/21/08	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Metals by ICP/ICPMS, Total Alkalinity Anion - Cation Balance Conductivity Mercury, Total Selenium, Dissolved Selenium, Dissolved Selenium, Dissolved Anions by Ion Chromatography Nitrogen, Ammonia pH Metals Digestion by EPA 200.2 Digestion, Total Metals Digestion, Total Metals Dissolved Filtration Digestion, Mercury by CVAA Gross Alpha, Gross Beta Gross Gamma Radium 226, Dissolved Radium 226, Suspended Radium 226, Total Thorium, Isotopic Thorium, Suspended Isotopic Thorium, Isotopic Sodium Adsorption Ratio Suspended Sediment Concentration Solids, Total Dissolved Solids, Total Suspended
R08070343-002	DewBurd PSC02-1	07/18/08 0:00	07/21/08	Aqueous	Same As Above
R08070343-003	DewBurd PSC02-2	07/18/08 0:00	07/21/08	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

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

Report Approved By: Linda Larson

Linda Larson
Rapid City - Project Manager

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

CLIENT: RESPEC Inc
Project: Edgemont
Sample Delivery Group: R08070343

Date: *12-Sep-08*

CASE NARRATIVE

The following Case Narrative contains exceptions or comments pertaining to the analysis of samples submitted by RESPEC Inc on 7/21/2008 9:15:00 AM. These samples were assigned ELI Workorder Number R08070343.

This case narrative is used to explain any exceptions to the analyses performed for your sample(s). In accordance with Good Analytical Laboratory Practices (GALP), samples requiring data qualifiers or analytical modifications are explained herein.

All samples were analyzed in accordance with prescribed methodology, except were noted. Samples are accompanied by appropriate quality assurance/quality control (QA/QC) samples throughout the analytical process.

During the course of analyzing your sample(s) the following exceptions were noted.
- Any exceptions noted are listed in the Analytical Report

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

BRANCH LABORATORY IDENTIFIERS
eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-f - Energy Laboratories, Inc. - Idaho Falls, ID, EPA # ID00942
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

For additional information, including certifications, and analytical services visit our web page www.energylab.com.

If you have questions regarding this information, please feel free to contact us at (888)672-1225, (605)342-1225 or rapid_city@energylab.com.
Comments imported for SUBBED Workorder: C08071122

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

ANALYSIS COMMENTS
The sample specific Minimum Detectable Concentration (MDC) as required by USNRC Regulatory Guide 4.14 could not be achieved on all Radiochemical analyses.
End of comments imported for SUBBED Workorder: C08071122

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-001
Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	104	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Bicarbonate as HCO3	127	mg/L		5		1	A2320 B	07/22/08 10:38/mb
Calcium	422	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Chloride	2	mg/L		1		1	E300.0	07/21/08 20:59/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 20:59/jmh
Magnesium	20.3	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	07/30/08 12:09/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/21/08 20:59/jmh
Potassium	10	mg/L		1		2	E200.7	09/09/08 20:34/eli-c
Silica	5.2	mg/L		0.5		2	E200.7	09/09/08 20:34/eli-c
Sodium	4	mg/L	D	2		2	E200.7	09/09/08 20:34/eli-c
Sulfate	1040	mg/L	D	3		50	E300.0	07/21/08 20:43/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	1710	umhos/cm		5.0		1	A2510 B	07/22/08 10:01/tb
pH	7.12	s.u.		0.01		1	A4500-H B	07/22/08 09:24/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	9760	mg/L		5		1	D3977	07/28/08 10:13/mb
Solids, Total Dissolved TDS @ 180 C	1600	mg/L		5		1	A2540 C	07/23/08 11:46/mb
Solids, Total Suspended TSS @ 105 C	12000	mg/L		5		1	A2540 D	07/21/08 15:07/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	08/06/08 17:11/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Barium	0.3	mg/L		0.1		1	E200.8	08/05/08 19:41/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/09/08 20:34/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 19:41/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Iron	0.10	mg/L		0.03		2	E200.7	09/09/08 20:34/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Manganese	0.81	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 19:41/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	08/05/08 19:41/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/06/08 17:11/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 19:41/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8	08/05/08 19:41/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-001
Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	08/05/08 19:41/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/05/08 19:41/eli-c
METALS - SUSPENDED								
Thorium 232	0.038	mg/L		0.001		5	E200.8	08/14/08 16:33/eli-c
Uranium	0.0131	mg/L		0.0003		5	E200.8	07/29/08 18:35/eli-c
METALS - TOTAL								
Aluminum	233	mg/L		0.1		2	E200.7	08/04/08 18:45/eli-c
Arsenic	0.073	mg/L		0.001		10	E200.8	08/01/08 01:48/eli-c
Barium	1.2	mg/L		0.1		10	E200.8	08/01/08 01:48/eli-c
Boron	0.6	mg/L		0.1		2	E200.7	08/04/08 18:45/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	08/01/08 01:48/eli-c
Chromium	0.34	mg/L		0.05		10	E200.8	08/01/08 01:48/eli-c
Copper	0.21	mg/L		0.01		10	E200.8	08/01/08 01:48/eli-c
Iron	253	mg/L	D	0.2		2	E200.7	08/04/08 18:45/eli-c
Lead	0.144	mg/L		0.001		10	E200.8	08/01/08 01:48/eli-c
Manganese	6.34	mg/L		0.01		10	E200.8	08/01/08 01:48/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	08/01/08 01:48/eli-c
Nickel	0.33	mg/L		0.05		10	E200.8	08/01/08 01:48/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/01/08 12:30/eli-c
Thorium 232	0.042	mg/L		0.005		10	E200.8	08/01/08 12:30/eli-c
Uranium	0.0206	mg/L		0.0003		10	E200.8	08/01/08 01:48/eli-c
Vanadium	0.5	mg/L	D	0.2		10	E200.8	08/01/08 01:48/eli-c
Zinc	0.73	mg/L		0.01		10	E200.8	08/01/08 01:48/eli-c
Calcium	949	mg/L		0.5		2	E200.7	08/04/08 18:45/eli-c
Magnesium	387	mg/L		0.5		2	E200.7	08/04/08 18:45/eli-c
Potassium	87.5	mg/L		0.5		2	E200.7	08/04/08 18:45/eli-c
Silica	64.0	mg/L		0.5		2	E200.7	08/04/08 18:45/eli-c
Sodium	6	mg/L	D	1		2	E200.7	08/04/08 18:45/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/15/08 15:28/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/15/08 11:50/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/20/08 09:09/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-001
Client Sample ID: DewBurd PSC01-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Radium 226 MDC	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	7.1	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Thorium 230	4.2	pCi/L		0.2		1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	1.6	pCi/L				1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	7.0	pCi/L	U			1	E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	8.8	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	13.8	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta	12.8	pCi/L	U			1	E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	11.1	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	18.2	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0		1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	7.4	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	0.8	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Thorium 230	4.2	pCi/L		0.2		1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	1.6	pCi/L				1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:28/eli-b
DATA QUALITY								
A/C Balance (± 5)	-4.89	%				1	A1030 E	09/05/08 00:00/jmh
Anions	23.7	meq/L				1	A1030 E	09/05/08 00:00/jmh
Cations	21.5	meq/L				1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	1530	mg/L				1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.06					1	A1030 E	09/05/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-002
Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	106	mg/L		5		1	A2320 B	07/22/08 10:41/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:41/mb
Bicarbonate as HCO3	129	mg/L		5		1	A2320 B	07/22/08 10:41/mb
Calcium	551	mg/L		0.5		2	E200.7	09/09/08 20:38/eli-c
Chloride	1	mg/L		1		1	E300.0	07/21/08 22:38/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 22:38/jmh
Magnesium	16.8	mg/L		0.5		2	E200.7	09/09/08 20:38/eli-c
Nitrogen, Ammonia as N	0.6	mg/L		0.1		1	A4500-NH3 G	07/30/08 12:10/jmh
Nitrogen, Nitrate as N	ND	mg/L		0.1		1	E300.0	07/21/08 22:38/jmh
Potassium	8	mg/L		1		2	E200.7	09/09/08 20:38/eli-c
Silica	4.8	mg/L		0.5		2	E200.7	09/09/08 20:38/eli-c
Sodium	3	mg/L	D	2		2	E200.7	09/09/08 20:38/eli-c
Sulfate	1220	mg/L	D	3		50	E300.0	07/21/08 21:48/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2000	umhos/cm		5.0		1	A2510 B	07/22/08 10:02/tb
pH	7.21	s.u.		0.01		1	A4500-H B	07/22/08 09:26/tb
Sodium Adsorption Ratio (SAR)	ND	unitless		0.10		1	Calculation	09/12/08 12:13/ADM
Solids, Suspended Sediment SSC @ 105 C	35800	mg/L		5		1	D3977	07/28/08 10:14/mb
Solids, Total Dissolved TDS @ 180 C	2100	mg/L		5		1	A2540 C	07/23/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	26000	mg/L		5		1	A2540 D	07/21/08 15:08/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	08/06/08 17:18/eli-c
Arsenic	0.008	mg/L		0.001		1	E200.8	08/05/08 19:48/eli-c
Barium	0.3	mg/L		0.1		1	E200.8	08/05/08 19:48/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/09/08 20:38/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 19:48/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
Iron	0.06	mg/L		0.03		2	E200.7	09/09/08 20:38/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 19:48/eli-c
Manganese	0.80	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 19:48/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	08/05/08 19:48/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/06/08 17:18/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 19:48/eli-c
Uranium	0.0016	mg/L		0.0003		1	E200.8	08/05/08 19:48/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-002
Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	08/05/08 19:48/eli-c
Zinc	ND	mg/L		0.01		1	E200.8	08/05/08 19:48/eli-c
METALS - SUSPENDED								
Thorium 232	0.132	mg/L		0.001		10	E200.8	08/14/08 17:05/eli-c
Uranium	0.0435	mg/L		0.0003		5	E200.8	07/29/08 18:39/eli-c
METALS - TOTAL								
Aluminum	324	mg/L		0.1		2	E200.7	08/04/08 18:49/eli-c
Arsenic	0.097	mg/L		0.001		10	E200.8	08/01/08 01:55/eli-c
Barium	1.0	mg/L		0.1		10	E200.8	08/01/08 01:55/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	08/04/08 18:49/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	08/01/08 01:55/eli-c
Chromium	0.51	mg/L		0.05		10	E200.8	08/01/08 01:55/eli-c
Copper	0.33	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Iron	337	mg/L	D	0.2		2	E200.7	08/04/08 18:49/eli-c
Lead	0.229	mg/L		0.001		10	E200.8	08/01/08 01:55/eli-c
Manganese	10.8	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	08/01/08 01:55/eli-c
Nickel	0.54	mg/L		0.05		10	E200.8	08/01/08 01:55/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/01/08 12:37/eli-c
Thorium 232	0.051	mg/L		0.005		10	E200.8	08/01/08 12:37/eli-c
Uranium	0.0311	mg/L		0.0003		10	E200.8	08/01/08 01:55/eli-c
Vanadium	0.7	mg/L	D	0.2		10	E200.8	08/01/08 01:55/eli-c
Zinc	1.17	mg/L		0.01		10	E200.8	08/01/08 01:55/eli-c
Calcium	1710	mg/L	D	0.8		10	E200.7	08/14/08 13:24/eli-c
Magnesium	616	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Potassium	106	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Silica	85.4	mg/L		0.5		2	E200.7	08/04/08 18:49/eli-c
Sodium	5	mg/L	D	1		2	E200.7	08/04/08 18:49/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/15/08 15:30/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/15/08 11:52/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.05	pCi/L	U			1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.2	pCi/L				1	E903.0	08/20/08 09:09/eli-c

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-002
Client Sample ID: DewBurd PSC02-1

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Radium 226 MDC	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.0	pCi/L	U	0.2		1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	21.3	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Radium 226 precision (±)	1.3	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	08/13/08 12:12/eli-c
Thorium 230	12.6	pCi/L		0.2		1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	2.6	pCi/L				1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	14.6	pCi/L	U			1	E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	11.4	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	17.1	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta	-9	pCi/L	U			1	E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	13.3	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	22.7	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0		1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	21.3	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	1.3	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Thorium 230	12.6	pCi/L		0.2		1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	2.6	pCi/L				1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:30/eli-b
DATA QUALITY								
A/C Balance (± 5)	2.96	%				1	A1030 E	09/12/08 00:00/jmh
Anions	27.6	meq/L				1	A1030 E	09/12/08 00:00/jmh
Cations	29.3	meq/L				1	A1030 E	09/12/08 00:00/jmh
Solids, Total Dissolved Calculated	1880	mg/L				1	A1030 E	09/12/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.10					1	A1030 E	09/12/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-003
Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
MAJOR IONS								
Alkalinity, Total as CaCO3	94	mg/L		5		1	A2320 B	07/22/08 10:53/mb
Carbonate as CO3	ND	mg/L		5		1	A2320 B	07/22/08 10:53/mb
Bicarbonate as HCO3	115	mg/L		5		1	A2320 B	07/22/08 10:53/mb
Calcium	564	mg/L		0.5		2	E200.7	09/09/08 20:42/eli-c
Chloride	3	mg/L		1		1	E300.0	07/21/08 23:11/jmh
Fluoride	0.2	mg/L		0.1		1	E300.0	07/21/08 23:11/jmh
Magnesium	22.4	mg/L		0.5		2	E200.7	09/09/08 20:42/eli-c
Nitrogen, Ammonia as N	0.4	mg/L		0.1		1	A4500-NH3 G	07/30/08 12:24/jmh
Nitrogen, Nitrate as N	0.3	mg/L		0.1		1	E300.0	07/21/08 23:11/jmh
Potassium	15	mg/L		1		2	E200.7	09/09/08 20:42/eli-c
Silica	4.7	mg/L		0.5		2	E200.7	09/09/08 20:42/eli-c
Sodium	8	mg/L	D	2		2	E200.7	09/09/08 20:42/eli-c
Sulfate	1420	mg/L	D	3		50	E300.0	07/21/08 22:54/jmh
PHYSICAL PROPERTIES								
Conductivity @ 25 C	2220	umhos/cm		5.0		1	A2510 B	07/22/08 10:03/tb
pH	7.16	s.u.		0.01		1	A4500-H B	07/22/08 09:28/tb
Sodium Adsorption Ratio (SAR)	0.10	unitless		0.10		1	Calculation	09/03/08 14:21/ADM
Solids, Suspended Sediment SSC @ 105 C	24800	mg/L		5		1	D3977	07/28/08 10:15/mb
Solids, Total Dissolved TDS @ 180 C	2200	mg/L		5		1	A2540 C	07/23/08 11:47/mb
Solids, Total Suspended TSS @ 105 C	20000	mg/L		5		1	A2540 D	07/21/08 15:09/mb
METALS - DISSOLVED								
Aluminum	ND	mg/L		0.1		10	E200.8	08/06/08 17:24/eli-c
Arsenic	0.003	mg/L		0.001		1	E200.8	08/05/08 20:22/eli-c
Barium	0.3	mg/L		0.1		1	E200.8	08/05/08 20:22/eli-c
Boron	ND	mg/L		0.1		2	E200.7	09/09/08 20:42/eli-c
Cadmium	ND	mg/L		0.005		1	E200.8	08/05/08 20:22/eli-c
Chromium	ND	mg/L		0.01		1	E200.8	08/05/08 20:22/eli-c
Copper	ND	mg/L		0.01		1	E200.8	08/05/08 20:22/eli-c
Iron	ND	mg/L		0.03		2	E200.7	09/09/08 20:42/eli-c
Lead	ND	mg/L		0.001		1	E200.8	08/05/08 20:22/eli-c
Manganese	0.86	mg/L		0.01		1	E200.8	08/05/08 20:22/eli-c
Mercury	ND	mg/L		0.001		1	E200.8	08/05/08 20:22/eli-c
Molybdenum	ND	mg/L		0.1		1	E200.8	08/05/08 20:22/eli-c
Nickel	ND	mg/L		0.01		1	E200.8	08/05/08 20:22/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/06/08 17:24/eli-c
Thorium 232	ND	mg/L		0.005		1	E200.8	08/05/08 20:22/eli-c
Uranium	0.0172	mg/L		0.0003		1	E200.8	08/05/08 20:22/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-003
Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
METALS - DISSOLVED								
Vanadium	ND	mg/L		0.1		1	E200.8	08/05/08 20:22/eli-c
Zinc	0.02	mg/L		0.01		1	E200.8	08/05/08 20:22/eli-c
METALS - SUSPENDED								
Thorium 232	0.056	mg/L		0.001		10	E200.8	08/14/08 17:11/eli-c
Uranium	0.0543	mg/L		0.0003		5	E200.8	07/29/08 18:43/eli-c
METALS - TOTAL								
Aluminum	322	mg/L		0.1		2	E200.7	08/04/08 18:54/eli-c
Arsenic	0.107	mg/L		0.001		10	E200.8	08/01/08 02:29/eli-c
Barium	1.1	mg/L		0.1		10	E200.8	08/01/08 02:29/eli-c
Boron	0.9	mg/L		0.1		2	E200.7	08/04/08 18:54/eli-c
Cadmium	ND	mg/L		0.005		10	E200.8	08/01/08 02:29/eli-c
Chromium	0.52	mg/L		0.05		10	E200.8	08/01/08 02:29/eli-c
Copper	0.32	mg/L		0.01		10	E200.8	08/01/08 02:29/eli-c
Iron	356	mg/L	D	0.2		2	E200.7	08/04/08 18:54/eli-c
Lead	0.240	mg/L		0.001		10	E200.8	08/01/08 02:29/eli-c
Manganese	11.4	mg/L		0.01		10	E200.8	08/01/08 02:29/eli-c
Molybdenum	ND	mg/L		0.1		10	E200.8	08/01/08 02:29/eli-c
Nickel	0.51	mg/L		0.05		10	E200.8	08/01/08 02:29/eli-c
Silver	ND	mg/L		0.005		10	E200.8	08/01/08 14:16/eli-c
Thorium 232	0.054	mg/L		0.005		10	E200.8	08/11/08 15:44/eli-c
Uranium	0.0888	mg/L		0.0003		10	E200.8	08/01/08 02:29/eli-c
Vanadium	0.8	mg/L	D	0.2		10	E200.8	08/01/08 02:29/eli-c
Zinc	1.22	mg/L		0.01		10	E200.8	08/01/08 02:29/eli-c
Calcium	1780	mg/L	D	0.8		10	E200.7	08/14/08 13:32/eli-c
Magnesium	607	mg/L		0.5		2	E200.7	08/04/08 18:54/eli-c
Potassium	115	mg/L		0.5		2	E200.7	08/04/08 18:54/eli-c
Silica	84.9	mg/L		0.5		2	E200.7	08/04/08 18:54/eli-c
Sodium	10	mg/L	D	1		2	E200.7	08/04/08 18:54/eli-c
METALS - DISSOLVED - SPECIATED								
Selenium	ND	mg/L		0.005		1	A3114 B	08/15/08 15:33/eli-c
Selenium-IV	ND	mg/L		0.001		1	A3114 B	08/15/08 11:54/eli-c
Selenium-VI	ND	mg/L		0.001		1	A3114 B	08/15/08 15:52/eli-c
RADIONUCLIDES - DISSOLVED								
Radium 226	0.6	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Radium 226 precision (±)	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c

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.
D - RL increased due to sample matrix interference.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

LABORATORY ANALYTICAL REPORT

Client: RESPEC Inc
Project: Edgemont
Lab ID: R08070343-003
Client Sample ID: DewBurd PSC02-2

Report Date: 09/12/08
Collection Date: 07/18/08
Date Received: 07/21/08
Matrix: AQUEOUS

Analyses	Result	Units	Qual	RL	MCL/ QCL	DF	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED								
Radium 226 MDC	0.3	pCi/L				1	E903.0	08/20/08 09:09/eli-c
Thorium 230	0.1	pCi/L	U	0.2		1	E907.0	08/18/08 14:00/eli-c
Thorium 230 precision (±)	0.1	pCi/L				1	E907.0	08/18/08 14:00/eli-c
RADIONUCLIDES - SUSPENDED								
Radium 226	24.8	pCi/L				1	E903.0	08/13/08 13:55/eli-c
Radium 226 precision (±)	1.3	pCi/L				1	E903.0	08/13/08 13:55/eli-c
Radium 226 MDC	0.4	pCi/L				1	E903.0	08/13/08 13:55/eli-c
Thorium 230	20.0	pCi/L		0.2		1	E907.0	08/06/08 10:30/eli-c
Thorium 230 precision (±)	3.6	pCi/L				1	E907.0	08/06/08 10:30/eli-c
RADIONUCLIDES - TOTAL								
Gross Alpha	33.3	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Alpha precision (±)	16.1	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Alpha MDC	22.2	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta	-5	pCi/L	U			1	E900.0	08/29/08 13:21/eli-c
Gross Beta precision (±)	16.2	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Beta MDC	27.3	pCi/L				1	E900.0	08/29/08 13:21/eli-c
Gross Gamma	0.0	pCi/L		20.0		1	E901.1	08/08/08 07:23/eli-c
Gross Gamma precision (±)	20	pCi/L				1	E901.1	08/08/08 07:23/eli-c
RADIONUCLIDES - TOTAL - CALCULATED								
Radium 226	25.4	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Radium 226 precision (±)	1.4	pCi/L				1	E903.0	09/01/08 12:46/eli-c
Thorium 230	20.1	pCi/L		0.2		1	E907.0	09/01/08 12:46/eli-c
Thorium 230 precision (±)	3.6	pCi/L				1	E907.0	09/01/08 12:46/eli-c
TOTAL METALS ANALYSES								
Mercury	ND	mg/L		0.0002		1	E245.1	07/29/08 12:32/eli-b
DATA QUALITY								
A/C Balance (± 5)	-4.26	%				1	A1030 E	09/05/08 00:00/jmh
Anions	31.5	meq/L				1	A1030 E	09/05/08 00:00/jmh
Cations	28.9	meq/L				1	A1030 E	09/05/08 00:00/jmh
Solids, Total Dissolved Calculated	2060	mg/L				1	A1030 E	09/05/08 00:00/jmh
TDS Balance (0.80 - 1.20)	1.08					1	A1030 E	09/05/08 00:00/jmh

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: 080722A-ALK-SEL-W	
Sample ID: LCS1_080722A	Laboratory Control Sample				Run: PH_COND1-R_080722A			07/22/08 08:58	
Alkalinity, Total as CaCO3	948	mg/L	5.0	95	90	110			
Sample ID: MBLK1_080722A	Method Blank				Run: PH_COND1-R_080722A			07/22/08 08:59	
Alkalinity, Total as CaCO3	ND	mg/L	3						
Method: A2510 B								Batch: 080722_1_COND-PROBE-W	
Sample ID: LCS_COND-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:53	
Conductivity @ 25 C	1430	umhos/cm	5.0	101	90	110			
Sample ID: LCS1-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:54	
Conductivity @ 25 C	153	umhos/cm	5.0	102	90	110			
Sample ID: LCS2-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722C			07/22/08 09:55	
Conductivity @ 25 C	5140	umhos/cm	5.0	103	90	110			
Sample ID: MBLK-1_080722	Method Blank				Run: PH_COND2-R_080722C			07/22/08 09:56	
Conductivity @ 25 C	ND	umhos/cm	5						
Sample ID: R08070357-001BDUP	Sample Duplicate				Run: PH_COND2-R_080722C			07/22/08 10:07	
Conductivity @ 25 C	666	umhos/cm	5.0				0.9	10	
Method: A2540 C								Batch: 080723A-SLDS-TDS-W	
Sample ID: LCS1_080723A	Laboratory Control Sample				Run: BAL-4-R_080724B			07/23/08 11:36	
Solids, Total Dissolved TDS @ 180 C	220	mg/L	5.0	108	90	110			
Sample ID: MBLK1_080723A	Method Blank				Run: BAL-4-R_080724B			07/23/08 11:37	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	3						
Sample ID: R08070340-001CMS	Sample Matrix Spike				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	96	80	120			
Sample ID: R08070340-001CMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B			07/24/08 00:00	
Solids, Total Dissolved TDS @ 180 C	1800	mg/L	5.0	110	80	120	1.5	10	
Sample ID: R08070396-001AMS	Sample Matrix Spike				Run: BAL-4-R_080724B			07/23/08 11:51	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	125	80	120			S
Sample ID: R08070396-001AMSD	Sample Matrix Spike Duplicate				Run: BAL-4-R_080724B			07/23/08 11:52	
Solids, Total Dissolved TDS @ 180 C	1300	mg/L	5.0	109	80	120	2.4	10	

Qualifiers:

RL - Analyte reporting limit.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 D								Batch: 080721A-SLDS-TSS-W	
Sample ID: LCS1_080721A	Laboratory Control Sample				Run: BAL-4-R_080721B			07/21/08 14:54	
Solids, Total Suspended TSS @ 105 C	190	mg/L	5.0	97	85	115			
Sample ID: MBLK1_080721A	Method Blank				Run: BAL-4-R_080721B			07/21/08 14:55	
Solids, Total Suspended TSS @ 105 C	ND	mg/L	2						
Sample ID: R08070343-003CDUP	Sample Duplicate				Run: BAL-4-R_080721B			07/21/08 15:09	
Solids, Total Suspended TSS @ 105 C	19000	mg/L	5.0				5.1	20	
Method: A3114 B								Batch: C_SE3114-0808015A	
Sample ID: MBLK	Method Blank				Run: SUB-C105972			08/15/08 11:38	
Selenium-IV	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105972			08/15/08 11:40	
Selenium-IV	0.049	mg/L	0.0010	98	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105972			08/15/08 11:46	
Selenium-IV	0.055	mg/L	0.0010	109	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105972			08/15/08 11:48	
Selenium-IV	0.057	mg/L	0.0010	113	85	115	4	10	
Method: A3114 B								Batch: C_SE3114-0808015B	
Sample ID: MBLK	Method Blank				Run: SUB-C105991			08/15/08 15:10	
Selenium	ND	mg/L	6E-05						
Sample ID: 288-121-5	Laboratory Control Sample				Run: SUB-C105991			08/15/08 15:20	
Selenium	0.047	mg/L	0.0010	95	90	110			
Sample ID: C08071121-001AMS	Sample Matrix Spike				Run: SUB-C105991			08/15/08 15:24	
Selenium	0.047	mg/L	0.0010	91	85	115			
Sample ID: C08071121-001AMSD	Sample Matrix Spike Duplicate				Run: SUB-C105991			08/15/08 15:26	
Selenium	0.048	mg/L	0.0010	93	85	115	2.1	15	
Method: A4500-H B								Batch: 080722_1_PH-W	
Sample ID: LCS_pH-1_080722	Laboratory Control Sample				Run: PH_COND2-R_080722A			07/22/08 09:14	
pH	6.85	s.u.	0.010	100	98.55	101.45			
Sample ID: R08070352-003CDUP	Sample Duplicate				Run: PH_COND2-R_080722A			07/22/08 09:33	
pH	7.83	s.u.	0.010				0	1.25	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2008-07-30_2_NH3_01	
Sample ID: MBLK-2	Method Blank				Run: TECHAA2-R_080730A			07/30/08 11:56	
Nitrogen, Ammonia as N	ND	mg/L	0.01						
Sample ID: LFB-4	Laboratory Fortified Blank				Run: TECHAA2-R_080730A			07/30/08 11:58	
Nitrogen, Ammonia as N	0.25	mg/L	0.10	102	90	110			
Sample ID: R08070342-001FMS	Sample Matrix Spike				Run: TECHAA2-R_080730A			07/30/08 12:06	
Nitrogen, Ammonia as N	0.66	mg/L	0.10	102	80	120			
Sample ID: R08070342-001FMSD	Sample Matrix Spike Duplicate				Run: TECHAA2-R_080730A			07/30/08 12:07	
Nitrogen, Ammonia as N	0.65	mg/L	0.10	99	80	120	0.9	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19243
Sample ID: MB-19243	Method Blank				Run: SUB-C105315				08/04/08 18:29
Aluminum	0.007	mg/L	0.002						
Boron	0.02	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						
Sample ID: LCS3-19243	Laboratory Control Sample				Run: SUB-C105315				08/04/08 18:33
Aluminum	2.55	mg/L	0.10	102	85	115			
Boron	0.528	mg/L	0.10	102	85	115			
Iron	2.72	mg/L	0.030	109	85	115			
Calcium	27.0	mg/L	1.0	108	85	115			
Magnesium	26.4	mg/L	1.0	106	85	115			
Potassium	25.9	mg/L	1.0	104	85	115			
Silica	5.57	mg/L	0.10	111	85	115			
Sodium	26.3	mg/L	1.0	105	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike				Run: SUB-C105315				08/04/08 19:02
Aluminum	2.59	mg/L	0.10	101	70	130			
Boron	0.792	mg/L	0.10	106	70	130			
Iron	3.18	mg/L	0.030	110	70	130			
Calcium	29.9	mg/L	1.0	112	70	130			
Magnesium	27.6	mg/L	1.0	109	70	130			
Potassium	26.4	mg/L	1.0	103	70	130			
Sodium	396	mg/L	1.1		70	130			A
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C105315				08/04/08 19:06
Aluminum	2.44	mg/L	0.10	95	70	130	6	20	
Boron	0.738	mg/L	0.10	95	70	130	7.1	20	
Iron	2.88	mg/L	0.030	98	70	130	9.8	20	
Calcium	27.4	mg/L	1.0	102	70	130	8.7	20	
Magnesium	25.4	mg/L	1.0	100	70	130	8.2	20	
Potassium	25.5	mg/L	1.0	99	70	130	3.5	20	
Sodium	386	mg/L	1.1		70	130	2.7	20	A
Sample ID: MB-19243	Method Blank				Run: SUB-C105946				08/14/08 13:16
Aluminum	ND	mg/L	0.002						
Boron	0.03	mg/L	0.01						
Iron	ND	mg/L	0.009						
Calcium	ND	mg/L	0.08						
Magnesium	ND	mg/L	0.08						
Potassium	ND	mg/L	0.04						
Sodium	ND	mg/L	0.5						

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: C_19243
Sample ID: MB-19243	Method Blank				Run: SUB-C105946				08/14/08 13:16
Sample ID: LCS3-19243	Laboratory Control Sample				Run: SUB-C105946				08/14/08 13:20
Aluminum	2.50	mg/L	0.10	100	85	115			
Boron	0.531	mg/L	0.10	101	85	115			
Iron	2.71	mg/L	0.030	108	85	115			
Calcium	26.6	mg/L	1.0	106	85	115			
Magnesium	27.7	mg/L	1.0	111	85	115			
Potassium	24.6	mg/L	1.0	98	85	115			
Silica	5.45	mg/L	0.10	109	85	115			
Sodium	23.6	mg/L	1.0	95	85	115			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R107273	
Sample ID: MB-080909A	Method Blank				Run: SUB-C107273			09/09/08 15:13	
Silica	ND	mg/L	0.02						
Boron	ND	mg/L	0.008						
Calcium	ND	mg/L	0.1						
Iron	ND	mg/L	0.005						
Magnesium	ND	mg/L	0.04						
Potassium	ND	mg/L	0.02						
Sodium	ND	mg/L	0.8						
Sample ID: LFB-080909A	Laboratory Fortified Blank				Run: SUB-C107273			09/09/08 15:18	
Silica	0.38	mg/L	0.10	95	85	125			
Boron	1.0	mg/L	0.10	102	85	125			
Calcium	53	mg/L	0.50	105	85	125			
Iron	1.1	mg/L	0.030	106	85	125			
Magnesium	53	mg/L	0.50	105	85	125			
Potassium	47	mg/L	0.50	93	85	125			
Sodium	52	mg/L	0.77	104	85	125			
Sample ID: C08090002-001BMS2	Sample Matrix Spike				Run: SUB-C107273			09/09/08 19:57	
Boron	2.06	mg/L	0.10	103	70	130			
Iron	2.08	mg/L	0.030	101	70	130			
Calcium	126	mg/L	1.0	104	70	130			
Magnesium	103	mg/L	1.0	101	70	130			
Potassium	95.4	mg/L	1.0	94	70	130			
Silica	4.26	mg/L	0.10		70	130			A
Sodium	115	mg/L	1.5	101	70	130			
Sample ID: C08090002-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C107273			09/09/08 20:01	
Boron	2.06	mg/L	0.10	103	70	130	0.4	20	
Iron	2.10	mg/L	0.030	102	70	130	1.2	20	
Calcium	126	mg/L	1.0	103	70	130	0.3	20	
Magnesium	103	mg/L	1.0	100	70	130	0.6	20	
Potassium	94.1	mg/L	1.0	92	70	130	1.4	20	
Silica	4.35	mg/L	0.10		70	130	2	20	A
Sodium	116	mg/L	1.5	101	70	130	0.4	20	
Sample ID: C08090083-001BMS2	Sample Matrix Spike				Run: SUB-C107273			09/09/08 21:18	
Boron	1.33	mg/L	0.10	101	70	130			
Iron	1.03	mg/L	0.030	103	70	130			
Calcium	53.7	mg/L	1.0	106	70	130			
Magnesium	51.2	mg/L	1.0	102	70	130			
Potassium	45.6	mg/L	1.0	91	70	130			
Silica	6.48	mg/L	0.10		70	130			A
Sodium	163	mg/L	1.0	95	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: C_R107273	
Sample ID: C08090083-001BMSD2	Sample Matrix Spike Duplicate				Run: SUB-C107273			09/09/08 21:22	
Boron	1.30	mg/L	0.10	98	70	130	2.4	20	
Iron	0.975	mg/L	0.030	98	70	130	5.7	20	
Calcium	51.3	mg/L	1.0	101	70	130	4.5	20	
Magnesium	48.9	mg/L	1.0	98	70	130	4.7	20	
Potassium	44.9	mg/L	1.0	89	70	130	1.4	20	
Silica	6.23	mg/L	0.10		70	130	3.9	20	A
Sodium	161	mg/L	1.0	91	70	130	1.4	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19243
Sample ID: MB-19243	Method Blank				Run: SUB-C105162				08/01/08 01:28
Arsenic	0.02	mg/L	4E-05						
Barium	ND	mg/L	7E-05						
Cadmium	ND	mg/L	2E-05						
Chromium	0.007	mg/L	5E-05						
Copper	ND	mg/L	0.0004						
Lead	ND	mg/L	5E-05						
Manganese	0.0002	mg/L	3E-05						
Molybdenum	ND	mg/L	4E-05						
Nickel	ND	mg/L	0.0002						
Silver	ND	mg/L	0.0002						
Uranium	ND	mg/L	3E-05						
Vanadium	0.1	mg/L	0.0007						
Zinc	0.001	mg/L	0.0007						
Sample ID: LCS3-19243	Laboratory Control Sample				Run: SUB-C105162				08/01/08 01:35
Arsenic	0.570	mg/L	0.0010	109	85	115			
Barium	0.534	mg/L	0.10	107	85	115			
Cadmium	0.271	mg/L	0.010	108	85	115			
Chromium	0.533	mg/L	0.050	105	85	115			
Copper	0.530	mg/L	0.010	106	85	115			
Lead	0.512	mg/L	0.050	102	85	115			
Manganese	2.86	mg/L	0.010	114	85	115			
Molybdenum	0.515	mg/L	0.10	103	85	115			
Nickel	0.529	mg/L	0.050	106	85	115			
Silver	0.0343	mg/L	0.010	69	85	115			S
Uranium	0.557	mg/L	0.00030	112	85	115			
Vanadium	0.772	mg/L	0.10	133	85	115			S
Zinc	0.538	mg/L	0.010	107	85	115			
Sample ID: C08071182-001CMS3	Sample Matrix Spike				Run: SUB-C105162				08/01/08 04:45
Arsenic	0.569	mg/L	0.0010	109	70	130			
Barium	0.587	mg/L	0.10	105	70	130			
Cadmium	0.262	mg/L	0.010	105	70	130			
Chromium	0.542	mg/L	0.050	107	70	130			
Copper	0.542	mg/L	0.010	108	70	130			
Lead	0.499	mg/L	0.050	100	70	130			
Manganese	2.83	mg/L	0.010	113	70	130			
Molybdenum	0.503	mg/L	0.10	101	70	130			
Nickel	0.532	mg/L	0.050	106	70	130			
Silver	0.0337	mg/L	0.010	67	70	130			S
Uranium	0.546	mg/L	0.00030	109	70	130			
Vanadium	0.799	mg/L	0.10	112	70	130			
Zinc	0.540	mg/L	0.010	107	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_19243
Sample ID: C08071182-001CMSD3	Sample Matrix Spike Duplicate				Run: SUB-C105162			08/01/08 04:52	
Arsenic	0.538	mg/L	0.0010	103	70	130	5.6	20	
Barium	0.561	mg/L	0.10	100	70	130	4.5	20	
Cadmium	0.248	mg/L	0.010	99	70	130	5.7	20	
Chromium	0.512	mg/L	0.050	101	70	130	5.7	20	
Copper	0.510	mg/L	0.010	102	70	130	6.1	20	
Lead	0.480	mg/L	0.050	96	70	130	3.8	20	
Manganese	2.69	mg/L	0.010	107	70	130	5	20	
Molybdenum	0.483	mg/L	0.10	97	70	130	4	20	
Nickel	0.504	mg/L	0.050	101	70	130	5.5	20	
Silver	0.0359	mg/L	0.010	72	70	130	6.2	20	
Uranium	0.521	mg/L	0.00030	104	70	130	4.6	20	
Vanadium	0.748	mg/L	0.10	102	70	130	6.6	20	
Zinc	0.524	mg/L	0.010	103	70	130	3.1	20	
Method: E200.8									Batch: C_19254
Sample ID: MB-19254	Method Blank				Run: SUB-C105957			08/14/08 16:14	
Thorium 232	0.0006	mg/L							
Uranium	1E-05	mg/L							
Sample ID: LCS1-19254	Laboratory Control Sample				Run: SUB-C105957			08/14/08 16:21	
Thorium 232	0.0484	mg/L	0.0010	91	80	120			
Uranium	0.0513	mg/L	0.00030	97	80	120			
Sample ID: R08070343-003K	Post Digestion Spike				Run: SUB-C105957			08/14/08 17:17	
Thorium 232	0.180	mg/L	0.0010	99	70	130			
Uranium	0.182	mg/L	0.00030	106	70	130			
Sample ID: R08070343-003K	Post Digestion Spike Duplicate				Run: SUB-C105957			08/14/08 17:24	
Thorium 232	0.180	mg/L	0.0010	99	70	130	0	20	
Uranium	0.182	mg/L	0.00030	106	70	130	0.3	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R105384	
Sample ID: LRB	Method Blank				Run: SUB-C105384			08/05/08 13:12	
Arsenic	ND	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						
Thorium 232	ND	mg/L	4E-05						
Uranium	ND	mg/L	1E-05						
Vanadium	ND	mg/L	3E-05						
Zinc	ND	mg/L	0.0003						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105384			08/05/08 13:18	
Arsenic	0.0564	mg/L	0.0010	113	85	115			
Barium	0.0559	mg/L	0.0010	112	85	115			
Cadmium	0.0557	mg/L	0.0010	111	85	115			
Chromium	0.0537	mg/L	0.0010	107	85	115			
Copper	0.0576	mg/L	0.0010	115	85	115			
Lead	0.0563	mg/L	0.0010	113	85	115			
Manganese	0.0536	mg/L	0.0010	107	85	115			
Mercury	0.00558	mg/L	0.0010	112	85	115			
Molybdenum	0.0564	mg/L	0.0010	113	85	115			
Nickel	0.0574	mg/L	0.0010	115	85	115			
Thorium 232	0.0538	mg/L	0.0010	108	85	115			
Uranium	0.0543	mg/L	0.00030	109	85	115			
Vanadium	0.0531	mg/L	0.0010	106	85	115			
Zinc	0.0579	mg/L	0.0010	116	85	115			
Sample ID: C08071095-005BMS4	Post Digestion Spike				Run: SUB-C105384			08/05/08 19:08	
Arsenic	0.0597	mg/L	0.0010	110	70	130			
Barium	0.191	mg/L	0.10	105	70	130			
Cadmium	0.0518	mg/L	0.010	104	70	130			
Chromium	0.0499	mg/L	0.050	100	70	130			
Copper	0.0573	mg/L	0.010	104	70	130			
Lead	0.0542	mg/L	0.050	108	70	130			
Manganese	0.279	mg/L	0.010		70	130			A
Mercury	0.00535	mg/L	0.0010	107	70	130			
Molybdenum	0.0543	mg/L	0.10	103	70	130			
Nickel	0.0557	mg/L	0.050	104	70	130			
Thorium 232	0.0521	mg/L	0.0010	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.

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: C_R105384	
Sample ID: C08071095-005BMS4	Post Digestion Spike				Run: SUB-C105384			08/05/08 19:08	
Uranium	0.0590	mg/L	0.00030	108	70	130			
Vanadium	0.0515	mg/L	0.10	100	70	130			
Zinc	0.0576	mg/L	0.010	105	70	130			
Sample ID: C08071095-005BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105384			08/05/08 19:14	
Arsenic	0.0585	mg/L	0.0010	107	70	130	2.1	20	
Barium	0.194	mg/L	0.10	111	70	130	1.5	20	
Cadmium	0.0518	mg/L	0.010	104	70	130	0.1	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0	20	
Copper	0.0563	mg/L	0.010	102	70	130	1.8	20	
Lead	0.0530	mg/L	0.050	105	70	130	2.1	20	
Manganese	0.279	mg/L	0.010		70	130	0.1	20	A
Mercury	0.00525	mg/L	0.0010	105	70	130	1.8	20	
Molybdenum	0.0549	mg/L	0.10	104	70	130	0	20	
Nickel	0.0549	mg/L	0.050	102	70	130	1.5	20	
Thorium 232	0.0512	mg/L	0.0010	102	70	130	1.8	20	
Uranium	0.0575	mg/L	0.00030	105	70	130	2.5	20	
Vanadium	0.0519	mg/L	0.10	101	70	130	0	20	
Zinc	0.0568	mg/L	0.010	103	70	130	1.3	20	
Sample ID: C08071390-001CMS4	Post Digestion Spike				Run: SUB-C105384			08/05/08 20:35	
Arsenic	0.0551	mg/L	0.0010	107	70	130			
Barium	0.0670	mg/L	0.10	107	70	130			
Cadmium	0.0493	mg/L	0.010	99	70	130			
Chromium	0.0480	mg/L	0.050	96	70	130			
Copper	0.0492	mg/L	0.010	97	70	130			
Lead	0.0545	mg/L	0.050	109	70	130			
Manganese	0.0869	mg/L	0.010	103	70	130			
Mercury	0.00539	mg/L	0.0010	108	70	130			
Molybdenum	0.0529	mg/L	0.10	104	70	130			
Nickel	0.0491	mg/L	0.050	98	70	130			
Thorium 232	0.0553	mg/L	0.0010	111	70	130			
Uranium	0.0557	mg/L	0.00030	111	70	130			
Vanadium	0.0495	mg/L	0.10	98	70	130			
Zinc	0.0506	mg/L	0.010	99	70	130			
Sample ID: C08071390-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C105384			08/05/08 20:42	
Arsenic	0.0557	mg/L	0.0010	108	70	130	0.9	20	
Barium	0.0677	mg/L	0.10	108	70	130	0	20	
Cadmium	0.0505	mg/L	0.010	101	70	130	2.6	20	
Chromium	0.0499	mg/L	0.050	100	70	130	0	20	
Copper	0.0504	mg/L	0.010	99	70	130	2.4	20	
Lead	0.0540	mg/L	0.050	108	70	130	0.9	20	
Manganese	0.0881	mg/L	0.010	106	70	130	1.4	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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: C_R105384
Sample ID: C08071390-001CMSD4	Post Digestion Spike Duplicate				Run: SUB-C105384			08/05/08 20:42	
Mercury	0.00536	mg/L	0.0010	107	70	130	0.5	20	
Molybdenum	0.0547	mg/L	0.10	108	70	130	0	20	
Nickel	0.0504	mg/L	0.050	101	70	130	2.7	20	
Thorium 232	0.0557	mg/L	0.0010	111	70	130	0.6	20	
Uranium	0.0556	mg/L	0.00030	111	70	130	0.1	20	
Vanadium	0.0510	mg/L	0.10	102	70	130	0	20	
Zinc	0.0507	mg/L	0.010	99	70	130	0.1	20	
Method: E200.8									Batch: C_R105472
Sample ID: LRB	Method Blank				Run: SUB-C105472			08/06/08 12:39	
Aluminum	ND	mg/L	0.0001						
Silver	ND	mg/L	3E-05						
Sample ID: LFB	Laboratory Fortified Blank				Run: SUB-C105472			08/06/08 12:46	
Aluminum	0.0484	mg/L	0.0010	97	85	115			
Silver	0.0195	mg/L	0.0010	98	85	115			
Sample ID: C08071183-003BMS4	Post Digestion Spike				Run: SUB-C105472			08/06/08 18:32	
Aluminum	0.141	mg/L	0.10	110	70	130			
Silver	0.0158	mg/L	0.010	79	70	130			
Sample ID: C08071183-003BMSD4	Post Digestion Spike Duplicate				Run: SUB-C105472			08/06/08 18:39	
Aluminum	0.138	mg/L	0.10	104	70	130	2.1	20	
Silver	0.0159	mg/L	0.010	79	70	130	0.8	20	
Method: E245.1									Batch: B_33735
Sample ID: MB-33735	Method Blank				Run: SUB-B114848			07/29/08 11:25	
Mercury	ND	mg/L	5E-05						
Sample ID: LFB-33735	Laboratory Fortified Blank				Run: SUB-B114848			07/29/08 11:32	
Mercury	0.0018	mg/L	0.0010	89	85	115			
Sample ID: B08072374-001BMS	Sample Matrix Spike				Run: SUB-B114848			07/29/08 12:18	
Mercury	0.0022	mg/L	0.0010	107	70	130			
Sample ID: B08072374-001BMSD	Sample Matrix Spike Duplicate				Run: SUB-B114848			07/29/08 12:21	
Mercury	0.0021	mg/L	0.0010	103	70	130	4.8	30	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Batch: R36265
Sample ID: LFB0807215435-3	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 17:59
Chloride	4.74	mg/L	0.50	95	90	110			
Fluoride	2.02	mg/L	0.10	101	90	110			
Nitrogen, Nitrate as N	2.34	mg/L	0.10	94	90	110			
Sulfate	14.1	mg/L	1.0	94	90	110			
Sample ID: LFB0807215435-4	Laboratory Fortified Blank				Run: DIONEX_080721A				07/21/08 18:15
Chloride	4.89	mg/L	0.50	98	90	110			
Fluoride	2.08	mg/L	0.10	104	90	110			
Nitrogen, Nitrate as N	2.41	mg/L	0.10	96	90	110			
Sulfate	14.5	mg/L	1.0	97	90	110			
Sample ID: R08070343-002CMS	Sample Matrix Spike				Run: DIONEX_080721A				07/21/08 22:05
Chloride	249	mg/L	5.4	93	80	120			
Fluoride	106	mg/L	0.56	106	80	120			
Nitrogen, Nitrate as N	120	mg/L	1.3	96	80	120			
Sulfate	1880	mg/L	3.4	88	80	120			
Sample ID: R08070343-002CMSD	Sample Matrix Spike Duplicate				Run: DIONEX_080721A				07/21/08 22:21
Chloride	242	mg/L	5.4	91	80	120	2.6	10	
Fluoride	103	mg/L	0.56	103	80	120	2.4	10	
Nitrogen, Nitrate as N	117	mg/L	1.3	94	80	120	2.4	10	
Sulfate	1850	mg/L	3.4	83	80	120	1.8	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0								Batch: C_GrAB-0508	
Sample ID: MB-GrAB-0508	Method Blank				Run: SUB-C106727			08/29/08 01:04	
Gross Alpha	0.02	pCi/L							U
Gross Beta	-0.8	pCi/L							U
Sample ID: UNAT-GrAB-0508	Laboratory Control Sample				Run: SUB-C106727			08/29/08 01:04	
Gross Alpha	130	pCi/L		93	70	130			
Sample ID: Cs137-GrAB-0508	Laboratory Control Sample				Run: SUB-C106727			08/29/08 01:04	
Gross Beta	92	pCi/L		99	70	130			
Sample ID: C08071157-005DMS	Sample Matrix Spike				Run: SUB-C106727			08/29/08 01:04	
Gross Alpha	116	pCi/L		84	70	130			
Sample ID: C08071157-005DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106727			08/29/08 01:04	
Gross Alpha	137	pCi/L		99	70	130	16	20	
Sample ID: C08071157-005DMS	Sample Matrix Spike				Run: SUB-C106727			08/29/08 01:04	
Gross Beta	94.7	pCi/L		102	70	130			
Sample ID: C08071157-005DMSD	Sample Matrix Spike Duplicate				Run: SUB-C106727			08/29/08 01:04	
Gross Beta	92.2	pCi/L		99	70	130	2.7	15.9	
Method: E901.1								Batch: C_R105938	
Sample ID: LCS-R105938	Laboratory Control Sample				Run: SUB-C105938			08/08/08 07:23	
Cesium 137	39300	pCi/L	20	102	70	130			
Cobalt 60	38200	pCi/L	20	95	70	130			
Sample ID: MB-R105938	Method Blank				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma		pCi/L							
Sample ID: R08070343-003I	Sample Duplicate				Run: SUB-C105938			08/08/08 07:23	
Gross Gamma	ND	pCi/L	20				0	30	
Method: E903.0								Batch: C_19254	
Sample ID: C08071121-001KMS	Sample Matrix Spike				Run: SUB-C105911			08/13/08 12:12	
Radium 226	34	pCi/L		90	70	130			
Sample ID: C08071121-001KMSD	Sample Matrix Spike Duplicate				Run: SUB-C105911			08/13/08 12:12	
Radium 226	34	pCi/L		92	70	130	1.5	24.8	
Sample ID: MB-19254	Method Blank				Run: SUB-C105911			08/13/08 13:55	
Radium 226	-1	pCi/L							U
Sample ID: LCS-19254	Laboratory Control Sample				Run: SUB-C105911			08/13/08 13:55	
Radium 226	69	pCi/L		89	70	130			

Qualifiers:

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

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com

QA/QC Summary Report

Client: RESPEC Inc
Project: Edgemont

Report Date: 09/12/08
Work Order: R08070343

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: C_RA226-3011	
Sample ID: MB-RA226-3011	Method Blank				Run: SUB-C106242			08/20/08 12:53	
Radium 226	-0.3	pCi/L							U
Sample ID: LCS-RA226-3011	Laboratory Control Sample				Run: SUB-C106242			08/20/08 12:53	
Radium 226	7.6	pCi/L		101	70	130			
Sample ID: C08071121-001JMS	Sample Matrix Spike				Run: SUB-C106242			08/20/08 12:53	
Radium 226	17	pCi/L		107	70	130			
Sample ID: C08071121-001JMSD	Sample Matrix Spike Duplicate				Run: SUB-C106242			08/20/08 12:53	
Radium 226	18	pCi/L		112	70	130	4.8	29.5	
Method: E907.0								Batch: C_19254	
Sample ID: C08071010-002EMS	Sample Matrix Spike				Run: SUB-C106091			08/06/08 10:30	
Thorium 230	24.2	pCi/L	0.20	100	70	130			
Sample ID: C08071010-002EMSD	Sample Matrix Spike Duplicate				Run: SUB-C106091			08/06/08 10:30	
Thorium 230	24.4	pCi/L	0.20	104	70	130	0.7	30	
Sample ID: LCS-19254	Laboratory Control Sample				Run: SUB-C106091			08/06/08 10:30	
Thorium 230	50.1	pCi/L	0.20	103	70	130			
Sample ID: MB-19254	Method Blank				Run: SUB-C106091			08/06/08 10:30	
Thorium 230	0.1	pCi/L							U
Method: E907.0								Batch: C_R106559	
Sample ID: LCS-R106559	Laboratory Control Sample				Run: SUB-C106559			08/18/08 14:00	
Thorium 230	6.36	pCi/L	0.20	104	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike				Run: SUB-C106559			08/18/08 14:00	
Thorium 230	14.5	pCi/L	0.20	90	70	130			
Sample ID: R08070343-001J	Sample Matrix Spike Duplicate				Run: SUB-C106559			08/18/08 14:00	
Thorium 230	15.4	pCi/L	0.20	96	70	130	6	30	
Sample ID: MB-R106559	Method Blank				Run: SUB-C106559			08/18/08 14:00	
Thorium 230	ND	pCi/L							U

Qualifiers:

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

ENERGY LABORATORIES

Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
~~PowerTech DB~~ RESIEC	PowerTech DB	State: SD	Yes ☐ No ☐
Report Mail Address:	**Contact Name:** / **Phone/Fax:**	**Email:**	**Sampler: (Please Print)**
	cory.foreman@resiec.com		Eric Krantz
Invoice Address:	**Invoice Contact & Phone:**	**Purchase Order:**	**Quote/Bottle Order:**

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

- ☐ DW
- ☐ GSA
- ☐ POTW/WWTP
- ☐ State: _____
- ☐ Other: _____
- ☐ A2LA
- ☐ EDD/EDT (Electronic Data) Format: _____
- ☐ LEVEL IV
- ☐ NELAC

ANALYSIS REQUESTED: call Cory Foreman

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments: Sample Split into proper Containers in LAB. SF

Shipped by:

Cooler ID(s):

Receipt Temp 9.4 °C

On Ice: Yes No

Custody Seal Y N

Intact Y N

Signature Match Y N

	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)	Comments	LABORATORY USE ONLY
1	Dew Burd PSC01-2	7/18/08	early a.m.	W	bottle 2	B8070343-001
2	Dew Burd PSC02-1	7/18/08	early a.m.	W	bottle 1	002
3	Dew Burd PSC02-2	7/18/08	early a.m.	W	bottle 2	003
4						
5						
6						
7						
8						
9						
10						

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Eric Krantz	7/21/08 0915	[signature]	Steve Troiland	7-21-08 9:15	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: _____

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.

ENERGY LABORATORIES, INC. • 2821 Plant Street • Rapid City, SD 57702 • www.energylab.com
Toll Free 888.672.1225 • Voice 605.342.1225 • Fax 605.342.1397 • rapid_city@energylab.com